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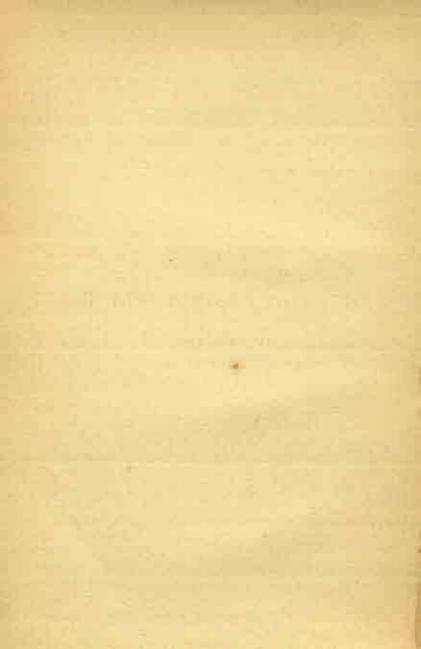
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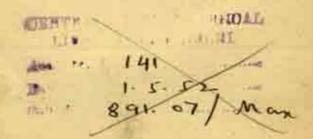
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ARTHUR PENRHYN STANLEY, D.D.,

DRIES OF WESTBERGER,

AS A TOKEN OF

GRATITUDE AND PRIENDSHIP

PROBE

ONE WHO HAS FOR MANY TEARS ADMINED

HIS LOYALTY TO TRUTH,

HIS SINGLENESS OF PURPOSE,

HIS CHIVALDOUS COURAGE.

AND

HIS UNCHANGING DEVOTION TO HIS FRIENDS.

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INAUGURAL LECTURE,

ON THE VALUE OF COMPARATIVE PHILOLOGY AS A BRANCH OF ACADEMIC STUDY.

DELIVERED REPORT THE UNIVERSITY OF OXFORD THE 27TH OF OCTOBER, 1865.

THE foundation of a professorial chair in the University of Oxford marks an important epoch in the history of every new science. There are other universities far more ready to confer this academical

¹ The following statute was approved by the University of Oxford in 1808 (Statute Universitatis Oxiolensis, iv., i., 37, 5) 1-3):—

"1. Professor philologie comparative a Vice-Cancellario, et professoribus linguarum Hebraico, Sanskritica, Graco, Latton, et Anglo-Saxonica eligatur. In aqualitate suffraçantium rom decidat Vice-Cancellarios.

"Proviso tamen at si vir ci. M. Miller, M. A., hodie linguarum modernarum Europe professor Taylorianus, cum professionem intra mensem post hos statutum sancitum resignarurit, seque professoris philologie comparative summe suaripere poestum cose accipto Vice-Cancollarium certicoem fecerit, is prianus admittatur professor.

**2. Professor quatumnis per sex menses in Universitate incolat et commoretur inter decimum diem Octobris et primum diem Julii seçumetis.

"Il. Professor dies lectionum series in duebus discretis torminis legar, terminis Paschatia et S. Trinitatis pro uno reputatis i scilicei per sex septimanas in utroque termino, et bis ad minimum in unaquaque septimanas atque inrupes per sex septimanas unius alionjos termini his ad minimum in unaquaque septimanas unius alionjos termini his ad minimum in unaquaque septimanas en minimum possenti. Unum perre ad minimum lectionem quotannis publice habeat ab academicis quibuscunque sina marcede audiendam. De die hara et lece quibus hac lectio miennis habenta sit academiam modo ecusasto certioren faciat."

recognition on new branches of scientific research, and it would be easy to mention several subjects, and no doubt important subjects, which have long had their accredited representatives in the universities of France and Germany, but which at Oxford have not yet received this well-merited recognition.

If we take into account the study of ancient languages only, we see that as soon as Champollion's discoveries had given to the study of hieroglyphics and Egyptian antiquities a truly scientific character, the French government thought it its duty to found a chair for this promising branch of Oriental scholarship. Italy soon followed this generous example: nor was the Prussian government long behind hand in doing honor to the newborn science, as soon as in Professor Lepsius it had found a scholar worthy to occupy a chair of Egyptology at Berlin.

If France had possessed the brilliant genius to whom so much is due in the deciphering of the cuneiform inscriptions, I have little doubt that long ago a chair would have been founded at the Collège de

France expressly for Sir Henry Rawlinson.

England possesses some of the best, if not the best, of Persian scholars (alas! he who was here in my mind, Lord Strangford, is no longer among us), yet there is no chair for Persian at Oxford or Cambridge, in spite of the charms of its modern literature, and the vast importance of the ancient language of Persia and Bactria, the Zend, a language full of interest, not only to the comparative philologist, but also to the student of Comparative Theology.

There are few of the great universities of Europe without a chair for that language which, from the very beginning of history, as far as it is known to us

seems always to have been spoken by the largest number of human beings, - I mean Chinese. In Paris we find not one, but two chairs for Chinese, one for the ancient, another for the modern language of that wonderful empire; and if we consider the light which a study of that curious form of human speech is intended to throw on the nature and growth of language, if we measure the importance of its enormous literature by the materials which it supplies to the student of ancient religious, and likewise to the historian who wishes to observe the earliest rise of the principal sciences and arts in countries beyond the influence of Aryan and Semitic civilization, - if, lastly, we take into account the important evidence which the Chinese language, reflecting, like a never-fading photograph, the earliest workings of the human mind, is able to supply to the student of psychology, and to the careful analyzer of the elements and laws of thought, we should feel less inclined to ignore or ridicule the claims of such a language to a chair in our ancient university.1

I could go on and mention several other subjects, well worthy of the same distinction. If the study of Celtic languages and Celtic antiquities deserves to be encouraged anywhere, it is surely in England, — not, as has been suggested, in order to keep English literature from falling into the abyss of German platitudes, nor to put Aneurin and Tallesin in the place of Shakespeare and Burns, and to counteract by their "anavity and brilliancy" the Philistine tendencies of the Saxon and the Northman, but in order to

² An offer to found a professorship of Chinese, to be held by an Englishman whom even Stanislas Julien recognized as the best Chinese wholar of the day, has lately been received very coldly by the Habdomadal Council of the University.

supply sound materials and guiding principles to the critical student of the ancient history and the uncient language of Britain, to excite an interest in what still remains of Celtic antiquities, whether in manuscripts or in genuine stone monuments, and thus to preserve such national heir-looms from neglect or utter destruction. If we consider that Oxford possesses a Welsh college, and that England possesses the best of Celtic scholars, it is surely a pity that he should have to publish the results of his studies in the short intervals of official work at Calcutta, and not in the more congenial atmosphere of Rytichin.

For these who know the history of the ancient universities of England, it is not difficult to find out why they should have been less inclined than their contimental sisters to make timely provision for the encouragement of these and other important branches of linguistic research. Oxford and Cambridge, as independent corporations, withdrawn alike from the support and from the control of the state, have always looked upon the instruction of the youth of England ns their proper work; and nowhere has the tradition of classical learning been handed down more faithfully from one generation to another than in England; nowhere has its generous spirit more thoroughly pervaded the minds of statesmen, poet, artists, and moulded the character of that large and important class of independent and cultivated men, without which this country would cease to be what it has been for the last two centuries, a res publica, a commonwealth, in the best sense of the word. Oxford and Cambridge have supplied what England expected or demanded, and as English parents did not send their sons to learn Chinese or to study

Cornish, there was naturally no supply where there was no demand. The professorial element in the university, the true representative of higher learning and independent research, withered away; the tutorial assumed the vastest proportions during this and the last centuries.

But looking back to the earlier history of the English universities. I believe it is a mistake to suppose that Oxford, one of the most celebrated universities during the Middle Ages and in the modern history of Europe, could ever have ignored the duty, so fully recognized by other European universities, of not only handing down intact, and laid up, as it were, in a mapkin, the traditional stock of human knowledge, but of constantly adding to it, and increasing it fivefold and tenfold. Nav. unless I am much mistaken, there was really no university in which more ample provision had been made by founders and benefactors than at Oxford, for the support and encouragement of a class of students who should follow up new lines of study, devote their energies to work which, from its very nature, could not be incrative or even selfsupporting, and maintain the fame of English learning, English industry, and English genius in that great and time-honored republic of learning which claims the allegiance of the whole of Europe, nay, of the whole civilized world. That work at Oxford and Cambridge was meant to be done by the Fellowa of Colleges. In times, no doubt, when every kind of learning was in the hands of the clergy, these followships might seem to have been intended exclusively for the support of theological students. But when other studies, once mere germs and shoots on the tree of knowledge, separated from the old stem and as-

sumed an independent growth, whether under the name of natural science, or history, or scholarship, or jurisprudence, a fair division ought to have been made at once of the funds which, in accordance with the letter, it may be, but certainly not with the spirit of the ancient statutes, have remained for so many years appropriated to the exclusive support of theological learning, if learning it could be called. Fortunately, that mistake has now been remedied, and the funds originally intended, without distinction, for the support of "true religion and useful learning," are now again more equally apportioned among those who, in the age in which we live, have divided and subdivided the vast intellectual inheritance of the Middle Ages, in order to cultivate the more thoroughly every nook and every corner in the boundless field of human knowledge.

Something, however, remains still to be done in order to restore these fellowships more fully and more efficiently to their original purpose, and thus to secure to the university not only a staff of zealous teachers, which it certainly possesses, but likewise a class of independent workers, of men who, by original research, by critical editions of the classics, by an acquisition of a scholarlike knowledge of other langunges besides Greek and Latin, by an honest devotion to one or the other among the numerous branches of physical science, by fearless researches into the ancient history of mankind, by a careful collection or revision of the materials for the history of politics, jurispendence, medicine, literature, and arts, by a life-long occupation with the problems of philosophy. and last, not least, by a real study of theology, or the science of religion, should perform again those duties

which in the stillness of the Middle Ages were performed by learned friars within the walls of our colleges. Those duties have remained in abeyance for several generations, and they must now be performed with increased vigor, in order to retain for Oxford that high position which it once held, not simply as a place of education, but as a seat of learning, amid the

most celebrated universities of Europe.

"Noblesse oblige" is an old saying that is sometimes addressed to those who have inherited an illustrious name, and who are proud of their ancestors. But what are the ancestors of the oldest and proudest of families compared with the ancestors of this university! "Noblesse oblige" applies to Oxford at the present moment more than ever, when knowledge for its own sake, and a chivalrons devotion to studies which command no price in the fair of the world, and lead to no piaces of emolument in church or state, are looked down upon and ridicaled by almost everybody.

There is no career in England at the present moment for scholars and students. No father could honestly advise his son, whatever talent he might display, to devote himself exclusively to classical, his torical, or physical studies. The few men who still keep up the fair name of England by independent research and new discoveries in the fields of political and natural history, do not always come from our universities; and unless they possess independent means, they cannot devote more than the leisure hours, left by their official duties in church or state, to the prosecution of their favorite studies. This ought not to be, nor need it be so. If only twenty men in Oxford and Cambridge had the will, every-

thing is ready for a reform, that is, for a restoration of the ancient glory of Oxford. The funds which are now frittered away in so-called prize-fellowships, would enable the universities to-morrow to invite the best talent of England back to its legitimate home. And what should we lose if we had no longer that long retinue of non-resident fellows? It is true, no doubt, that a fellowship has been a help in the early career of many a poor and hard-working man, and how could it be otherwise? But in many cases I know that it has proved a drag rather than a spur for further efforts. Students at English universities belong, as a rule, to the wealthier classes, and England is the wealthiest country in Europe. Yet in no country in the world would a young man, after his education is finished, expect assistance from public sources. Other countries tax themselves to the utmost in order to enable the largest possible number of young men to enjoy the best possible education in schools and universities. But when that is done the community feels that it has fulfilled its duty, and it says to the young generation, Now swim or drown. A manly struggle against poverty, it may be even against actual hunger, will form a stronger and sounder metal than a lotus-eating club-life in London or Paris. Whatever fellowships were intended to be, they were never intended to be mere sinccures, as most of them are at present. It is a national blessing that the two ancient universities of England should have saved such large funds from the shipwreck that swallowed up the corporate funds of the continental universities. But, in order to secure their safety for the future, it is absolutely necessary that these funds should be utilized again for the ad-

vancement of learning. Why should not a fellowship be made into a career for life, beginning with little, but rising like the incomes of other professions? Why should the grotesque condition of cellbacy be imposed on a fellowship, instead of the really salutary condition of - No work, no pay? Why should not some special literary or scientific work be assigned to each fellow, whether resident in Oxford or sent abroad on scientific missions? Why, instead of having fifty young men scattered about in England, should we not have ten of the best workers in every branch of human knowlege resident at Oxford, whether as teachers, or as guides, or as examples? The very presence of such men would have a stimulating and elevating effect: it would show to the young men higher objects of human ambition than the baton of a field-marshal, the mitre of a bishop, the ermine of a judge, or the money bags of a merchant; it would create for the future a supply of new workers as soon as there was for them, if not an avenue to wealth and power, at least a fair opening for hard work and proper pay. All this might be done to-morrow, without any injury to anybody, and with every chance of producing results of the greatest value to the universities, to the country, and to the world at large. Let the university continue to do the excellent work which it does at present as a teacher, but let it not forget the equally important duty of a university, that of a worker. Our century has inherited the intellectual wealth of former centuries, and with it the duty, not only to preserve it or to dole it out in schools and universities, but to increase it far beyond the limits which it has reached at present. Where there is no advance, there is retrogression: rest is impossible for the human mind.

Much of the work, therefore, which in other universities falls to the lot of the professors, ought, in Oxford, to be performed by a staff of student-fellows, whose labors should be properly organized as they are in the Institute of France or in the Academy of Berlin. With or without teaching, they could perform the work which no university can safely neglect, the work of constantly testing the soundness of our intellectual food, and of steadily expanding the realms of knowledge. We want pioneers, explorers, conquerors, and we could have them in abundance if we eared to have them. What other universities do by founding new chairs for new sciences, the colleges of Oxford could do to-morrow by applying the funds which are not required for teaching purposes, and which are now spent on sineoure fellowships, for making either temporary or permanent provision for the endowment of original research.

It is true that new chairs have, from time to time, been founded in Oxford also; but if we inquire into the circumstances under which provision was made for the teaching of new subjects, we shall find that it generally took place, not so much for the encouragement of any new branch of scientific research, however interesting to the philosopher and the historian, as in order to satisfy some practical wants that could no longer be ignored, whether in church or state, or in the university itself.

Confining ourselves to the chairs of languages, or, as they used to be called, "the readerships of tongues," we find that as early as 1311, while the Crusades were still fresh in the memory of the people of Europe, an appeal was made by Pope Clement V. at the Council of Vienne, calling upon the principal

universities in Christendom to appoint lecturers for the study of Hebrew, Arabic, and Chaldaic. It was considered at the time a great honor for Oxford to be mentioned by name, together with Paris, Bologna, and Salamanca, as one of the four great seats of learning in which the Pope and the Council of Vienne desired that provision should be made for the teaching of these languages. It is quite clear, however, from the wording of the resolution of the Council, that the chief object in the foundation of these readerships was to supply men capable of defending the interests of the church, of taking an active part in the controversies with Jews and Mohammedans, who were then considered dangerous, and of propagating the faith among unbelievers.

Nor does it seem that this papal exhortation produced much effect, for we find that Henry VIII. in 1540 had to make new provision in order to secure efficient teachers of Hebrew and Greek in the University of Oxford. At that time these two languages, but more particularly Greek, had assumed not only a theological, but a political importance, and it was but natural that the king should do all in his power to foster and spread a knowledge of a language which had been one of the most powerful weapons in the hands of the reformers. At Oxford itself this new chair was by no means popular: on the contrary those who studied Greek were for a

¹ Liber Sexus Decretalism (Lugdani, 1872), p. 1927: "Ut igitar peritia linguarum impassodi possit habilitar per instructionem efficaciam obtinere, hor sacre approbante concilio acholas in subscripturum linguarum generibas ablemaque Ramanam curlini resiltera cantigorit, incenso ia Particul, et Oxoniensi, Benoniensi, et Salmantino atudiis providimus erigondas; etatumies ut in qualibet locorum iguarum tensantur viri catholici, anticienter habentes Hebraica, Arabira, et Chaldam linguarum nofitism."

long time looked upon with great suspicion and dis-

Henry VIII. did nothing for the support of Arabic; but a century later (1636) we find Archbishop Land, whose attention had been attracted by Eastern questions, full of anxiety to resuscitate the study of Arabic at Oxford, partly by collecting Arabic MSS, in the East and depositing them in the Bodleian Library, partly by founding a new chair of Arabic, inaugurated by Pococke, and rendered illustrious by such names as Greaves, Thomas Hyde, John Wallis, and Thomas Hunt.

The foundation of a chair of Anglo-Saxon, too,

was due, not so much to a patriotic interest excited by the ancient national literature of the Saxons, still less to the importance of that ancient language for philological studies, but it received its first impulse from the divines of the sixteenth century, who wished to strengthen the position of the English Church in its controversy with the Church of Rome. Under the auspices of Archbishop Parker, Anglo-Saxon MSS, were first collected, and the Anglo-Saxon translations of the Bible, as well as Anglo-Saxon homilies, and treatises on theological and ecclesiastical subjects were studied by Fox, the mar-

tyrologist, and others, to be quoted as witnesses to the purity and simplicity of the primitive church founded in this realm, free in its origin from the later faults and fancies of the Church of Rome. Without

^{*} Greaves, Oratio Ocean habita, 1637, p. 19: "Pancos ultra centum amos numeramus ex que Graces primum llierze oraz haesa appulerunt, antea igunte prorsan, nomullis excas etiam et invisse, indectissimis scilicet fratarvalle, quibus raligio erat gracce seire, et levissimus Atticas eruditionis gratus harcein aspichat."

* See Biographia Britannica Literaria, vol. i. p. 110.

this practical object, Anglo-Saxon would hardly have excited so much interest in the sixteenth century, and Oxford would probably have remained much longer without its professorial chair of the ancient national language of England, which was founded by Rawlinson, but was not inaugurated before the end of the last century (1795).

Of the two remaining chairs of languages, of Sanskrit and of Latin, the former owes its origin, not to an admiration of the classical literature of India, nor to a recognition of the importance of Sanskrit for the purposes of Comparative Philology, but to an express desire on the part of its founder to provide efficient missionaries for India; while the creation of a chair of Latin, though long delayed, was at last rendered imperative by the argent wants of the university.

Nor does the chair of Comparative Philology, just founded by the university, form altogether an exception to this general rule. It is curious to remark that while Comparative Philology has for more than half a century excited the deepest interest, not only among continental, but likewise among English scholars, and while chairs of this new science have been founded long ago in almost every university of France, Germany, and Italy, the foundation of a new chair of Comparative Philology at Oxford should coincide very closely with a decided change that has taken place in the treatment of that science, and which has given to its results a more practical importance for the study of Greek and Latin, such as could hardly be claimed for it during the first fifty years of its growth.

We may date the origin of Comparative Philology,

as distinct from the Science of Language, from the foundation of the Asiatic Society of Calcutta, in 1784. From that time dates the study of Sanskrit, and it was the study of Sanskrit which formed the foundation of Comparative Philology.

It is perfectly true that Sanskrit had been studied before by Italian, German, and French missionaries; it is likewise perfectly true that several of these missionaries were fully aware of the close relationship between Sanskrit, Greek, and Latin. A man must be blind who, after looking at a Sanskrit grammar, does not see at once the striking coincidences between the declensions and conjugations of the classical language of India and those of Greece and Italy.¹

Filippo Sassetti, who spent some time at Goa, between 1581 and 1588, had only acquired a very alight knowledge of Sanskrit before he wrote home to his friends "that it has many words in common with Italian, particularly in the numerals, in the names for God, serpent, and many others." This was in the sixteenth century.

Some of the Jesuit missionaries, however, went far beyond this. A few among them had acquired a real and comprehensive knowledge of the ancient language and literature of India, and we see them anticipate in their letters several of the most brilliant discoveries of Sir W. Jones and Professor Bopp. The père Cœurdoux,² a French Jesuit, writes in 1767 from Pondichery to the French Academy, asking that learned society for a solution of the question.

" How is it that Sanskrit has so many words in com-

¹ M. M.'s Lectures on the Science of Language, vol. 1, p. 171-2 Ibid., p. 170.

mon with Greek and Latin?" He presents not only long lists of words, but he calls attention to the still more curious fact, that the grammatical forms in Sanskrit show the most startling similarity with Greek and Latin. After him almost everybody who had looked at Sanskrit, and who knew Greek and Latin, made the same remark and asked the same question.

But the fire only smouldered on; it would not burn up, it would not light, it would not warm. At last, owing to the exertions of the founders of the Asiatic Society at Calcutta, the necessary materials for a real study of Sanskrit became accessible to the students of Europe. The voice of Frederick Schlegel roused the attention of the world at large to the startling problem that had been thrown into the arena of the intellectual chivalry of the world, and at last the glove was taken up, and men like Bopp, and Burnouf, and Pott, and Grimm, did not rest till some answer could be returned, and some account rendered of Sanskrit, that strange intruder, and great disturber of the peace of classical scholarship,

The work which then began, was incessant. It was not enough that some words in Greek and Latin should be traced in Sanskrit. A kind of silent conviction began to spread that there must be in Sanskrit a remedy for all evils; people could not rest till every word in Greek and Latin had, in some disguiss or other, been discovered in Sanskrit. Nor were Greek, Latin, and Sanskrit enough to satisfy the thirst of the new discoverers. The Teutonic languages were soon annexed, the Celtic languages yielded to some gentle pressure, the Slavonic languages clamored for incorporation, the sacred idiom

of aggient Persia, the Zend, demanded its place by the side of Sanskrit, the Armenian followed in its wake; and when even the Ossetic from the valleys of Mount Caucasus, and the Albanian from the ancient hills of Epirus, had proved their birthright, the whole family, the Aryan family of language, seemed complete, and an historical fact, the original unity of all these languages, was established on a basis which even the most skeptical could not touch or shake. Scholars rushed in as diggers rush into a new gold field, picking up whatever is within reach, and trying to carry off more than they could carry, so that they might be foremost in the race, and claim as their own all that they had been the first to look at or to touch. There was a rush, and now and then an ugly rush, and when the armfuls of nuggets that were thrown down before the world in articles, pamphlets, essays, and ponderous volumes, came to be more carefully examined, it was but natural that not everything that glittered should turn out to be gold. Even in the works of more critical scholars, such as Bopp, Burnouf, Pott, and Benfey, at least in those which were published in the first enthusiasm of discovery, many things may now be pointed out, which no assayer would venture to pass. It was the great merit of Bopp that he called the attention away from this tempting field to the more laborious work of grammatical analysis, though even in his Comparative Grammar, in that comprehensive survey of the grammatical outlines of the Aryan languages, the spirit of conquest and centralization still predominates. All languages are, if possible, to submit to the same laws; what is common to all of them is welcome, what is peculiar to each is treated as anomalous, or explained as the result of later corruption.

This period in the history of Comparative Philology has sometimes been characterized as synarcistic, and to a certain extent that name and the censure implied in it are justified. But to a very small extent only. It was in the nature of things that a comparative study of languages should at first be directed to what is common to all; may, without having first become thoroughly acquainted with the general features of the whole family, it would have been impossible to discover and fully to appreciate what is peculiar to each of the members.

Nor was it long before a reaction set in. One scholar from the very first, and almost contemporaneously with Bopp's first essays on Comparative Grammar, devoted himself to the study of one branch of languages only, availing himself, as far as he was able, of the new light which a knowledge of Sanskrit had thrown on the scaret history of the whole Aryan family of speech, but concentrating his energies on the Teutonic; I mean, of course, Jacob Grimm, the author of the great historical grammar of the German language; a work which will live and last long after other works of that early period shall have been forgotten, or replaced, at least, by better books.

After a time Grimm's example was followed by others. Zeuss, in his "Grammatica Celtica," established the study of the Celtic languages on the broad foundations of Comparative Grammar. Miklosich and Schleicher achieved similar results by adopting the same method for the study of the Slavonie dialects. Curtius, by devoting himself to an elucidation of Greek, opened the eyes of classical scholars to the immense advantages of this new treatment of grammar and etymology; while Corssen, in his more re-

cent works on Latin, has struck a mine which may well tempt the curiosity of every student of the ancient dialects of Italy. At the present moment the reaction is complete; and there is certainly some danger, lest what was called a syncretistic spirit should now be replaced by an isolating spirit in the science

of language.

It cannot be denied, however, that this isolating, or rather discriminating, tendency has produced already the most valuable results, and I believe that it is chiefly due to the works of Curtius and Corssen, if Greek and Latin scholars have been roused at last from their apathy and been made aware of the absointo necessity of Comparative Philology, as a subject to be taught, not only in every university but in every school. I believe it is due to their works that a conviction has gradually been gaining ground among the best scholars at Oxford, also, that Comparative Philology could no longer be ignored as an important ingredient in the teaching of Greek and Latin; and while a comparative analysis of Sanskrit, Zend, Armenian, Greek, Latin, Gothic, High-German, Lithuanian, Slavonic, and Celtic, such as was find it in Bopp's "Comparative Grammar," would hardly be considered as a subject of practical atility. even in a school of philology, it was recognized at last that, not only for sound principles of etymology, not only for a rational treatment of Greek and Latin grammar, not only for a right understanding of classical mythology, but even for a critical restoration of the very texts of Homer and Plantas, a knowledge of Comparative Philology, as applied to Greek and Latin, had become indispensable.

My chief object, therefore, as Professor of Com-

parative Philology at Oxford, will be to treat the classical languages under that new aspect which they have assumed, as viewed by the microscope of Curtius and Corssen, rather than by the telescope of Bopp, Pott, and Benfey. I shall try not only to give results, but to explain what is far more important, the method by which these results were obtained, so far as this is possible without, for the present at least, presupposing among my hearers a knowledge of Sanskrit. Sanskrit certainly forms the only sound foundation of Comparative Philology, and it will always remain the only safe guide through all its Intricacies. A comparative philologist without a knowledge of Sanskrit is like an astronomer without a knowledge of mathematics. He may admire, he may observe, he may discover, but he will never feel satisfied, he will never feel certain, he will never feel quite at home.

I hope, therefore, that, besides those who attend my public lectures, there will be at least a few to form a private class for the study of the elements of Sanskrit. Sanskrit, no doubt, is a very difficult lauguage, and it requires the study of a whole life to master its enormous literature. Its grammar, too, has been elaborated with such incredible minuteness by native grammarians, that I am not surprised if many scholars who begin the study of Sanskrit turn back from it in dismay. But it is quite possible to learn the rules of Sanskrit declension and conjugation, and to gain an insight into the grammatical organization of that language, without bardening one's memory with all the phonetic rules which generally form the first chapter of every Sanskrit grammar, or without devoting years of study to the unrav-

eling of the intricacies of the greatest of Indian, if not of all grammarians, - Pânini. There are but few among our very best comparative philologists who are able to understand Panini. Professor Benfey, whose powers of work are truly astounding, stands almost alone in his minute knowledge of that greatest of all grammarians. Neither Bopp, nor Pott, nor Curtius, nor Corssen, ever attempted to master Pânini's wonderful system. But a study of Sanskrit, as taught by European grammarians, cannot be recommended too strongly to all students of language. A good sailor may, for a time, steer without a compass, but even he feels safer when he knows that he may consult it, if necessary; and whenever he comes near the rocks, - and there are many in the Arvan sea, - he will hardly escape shipwreck without this magnetic needle.1

It will be asked, no doubt, by Greek and Latin scholars who have never as yet devoted themselves seriously to a study of Comparative Philology, what is to be gained after all the trouble of learning Sanskrit, and after mastering the works of Bopp, and Benfey, and Curtius? Would a man be a better Greek and Latin scholar for knowing Sanskrit? Would be write better Latin and Greek verse? Would be better able to read and compare Greek and Latin MSS., and to prepare a critical edition of classical authors? To all these questions I reply both No and Yes.

If there is one branch of classical philology where the advantages derived from Comparative Philology have been most readily admitted, it is etymology. More than fifty years ago, Offried Müller told clas-

⁴ See Notes A and H, pp. 43, 40.

sical scholars that that province at least must be surrendered. And yet it is strange to see how long it takes before old erroneous derivations are exploded and finally expelled from our dictionaries; and how, in spite of all warnings, similarity of sound and similarity of meaning are still considered the chief criteria of Greek and Latin etymologies. I do not address this reproach to classical scholars only; it applies equally to many comparative philologists who, for the sake of some striking similarity of sound and meaning, will now and then break the phonetic laws which they themselves have helped to establish.

If we go back to earlier days, we find that Sanskrit scholars who had discovered that one of the large of the god of love in Bengali was Dipuc, i.e. the inflamer, derived from it by inversion the name of the god of love in Latin, Cupid. Six William Jones identified Janus with the Sanskrit Ganesa, i.e., lord of bests, and even later scholars allowed themselves to be tempted to see the Indian prototype of Ganymedes in the Kanva-medhatithi or Kanva-mesha of the Veda.

After the phonetic laws of each language had been more carefully elaborated, it was but too frequently forgotten that words have a history as well as a growth, and that the history of a word must be explored first, before an attempt is made to unravel its growth. Thus it was extremely tempting to derive paradise from the Sanskrit paradesa. The compound paradesa was supposed to mean the highest or a distant country, and all the rest seemed so evident as to require no further clusidation. Paradesa,

¹ See M. M., Science of Religion, 1873, p. 203. 2 See Weber, Indiana Studies, vol. I. p. 38.

however, does not mean the highest or a distant country in Sanskrit, but is always used in the sense of a foreign country, an enemy's country. Further, as early as the Song of Solomon (iv. 13), the word occurs in Hebrew as pardés, and how it could have got there straight from Sanskrit requires, at all events, some historical explanation. In Hebrew the word might have been borrowed from Persian, but the Sanskrit word paradesa, if it existed at all in Persian, would have been paradaesa, the s being a guitural, not a dental sibilant. Such a compound, however, does not exist in Persian, and therefore the Sanskrit word paradesa could not have reached Hebrew vid Persia.

It is true, nevertheless, that the ancient Hebrew word pardés is borrowed from Persian, viz.: from the Zend pairidaéza, which means circumvallatio, a piece of ground inclosed by high walls, afterwards a park, a garden. The root in Sanskrit is DIH or DHIH (for Sanskrit h is Zend s), and means originally to knead, to squeeze together, to shape. From it we have the Sanskrit dehf, a wall, while in Greek the same root, according to the strictest phonetic rules, yielded vaixos, wall. In Latin our root is regularly changed into fig, and gives us figulus, a potter, figura, form or shape, and fingers. In Gothic it could only appear as deig-an, to knead, to form anything out of soft substances; hence daig-s, the English dough, German Deich.

But the Greek empirement did not come from Hebrew, because here again there is no historical bridge between the two languages. In Greek we trace the word to Xenophon, who brought it back from his re-

See Hang, in Ewald's Biblische Jahrbacher, vol. vi. p. 102.

peated journeys in Persia, and who uses it in the

sense of pleasure-ground, or deer park.

Lastly, we find the same word used in the LXX., as the name given to the garden of Eden, the word having been borrowed either a third time from Persia, or taken from the Greek, and indirectly from the works of Xenophon.

This is the real history of the word. It is an Aryan word, but it does not exist in Sanskrit. It was first formed in Zend, transferred from thence as a foreign word into Hebrew and again into Greek.

Its modern Persian form is firdaus.

All this is matter of history rather than philology. Yet we read in one of the best classical dictionaries: "The root of supalmos, appears to be Semitic, Arab, firdans, Hebr. pardés: horrowed, also, in Sanskrit paradésa." Nearly every word is wrong.

From the same root DIH springs the Sanskrit word delta, body; body, like figure, being conceived as that which is formed or shaped. Bopp identified this delta with Gothic leik, body, particularly dead body, the modern German Leiche and Leichnam, the English lich in lich-gate. In this case the master of Comparative Philology disregarded the phonetic laws which he had himself helped to establish. The transition of d into l is no doubt common enough as between Sanskrit, Latin, and Greek, but it has never been established as yet on good evidence as taking place between Sanskrit and Gothic. Besides, the Sanskrit h ought in Gothic to appear as g, as we have it in deig-s, dough, and not by a tenuis.

¹ Anab., i. 2, 7: "Levelle Kipp Barthan from amplitude plyes, dycine statem, & derice blighter for level, before your feat a Soldare derice of an animal frame.

Mell., by 1, 15: "Le supersystems expeditions of a Malaches surraite a. c. & Son failure derice, 1874, p. 332.

Another Sanakrit word for body is kalevara, and this proved again a stumbling-block to Bopp, who compares it with the Latin cadaver. Here one might plead that l and d are frequently interchanged in Sanskrit and Latin words, but, as far as our evidence goes at present, we have no doubt many cases where an original Sanskrit d is represented in Latin by l, but no really trustworthy instance in which an original Sanskrit l appears in Latin as d. Besides, the Sanskrit diphthong s cannot, as a rule, in Latin be

represented by long a.

If such things could happen to Bopp, we must not be too severe on similar breaches of the peace committed by classical scholars. What classical scholars seem to find most difficult to learn is that there are various degrees of certainty in etymologies even in those proposed by our best comparative scholars, and that not everything that is mentioned by Bopp, or Pott, or Benfey as possible, as plausible, as probable, and even as more than probable, ought, therefore, to be set down, for instance, in a grammar or dictionary, as simply a matter of fact. With certain qualifications, an etymology may have a scientific value; without those qualifications, it may become not only unscientific but mischievous. Again, nothing seems a more difficult lesson for an etymologist to learn than to say, I do not know. Yet to my mind, nothing shows, for instance, the truly scholarlike mind of Professor Curtius better than the very fact for which he has been so often blamed, viz.: his passing over in silence the words about which he has nothing certain to my:

Let us take an instance. If we open our best Greek dictionaries, we find that the Greek aby

light, splendor, is compared with the German word for eye, Auge. No doubt every letter in the two words is the same, and the meaning of the Greek word could easily be supposed to have been specialized or localized in German. Sophocles ("Aj." 70) speaks of opparer abyai, the lights of the eyes, and Euripides ("Andr." 1180) uses alyai by itself for eyes, like the Latin Itonina. The verb atyails, too, is used in Greek in the sense of seeing or viewing. Why, then, it was saked, should miyo not be referred to the same source as the German Auge, and why should not both be traced back to the same root that yielded the Latin oc-sites? As long as we trust to our ears, or to what is complacently called common sense, it would seem mere fastidiousness to reject so evident an etymology. But as soon as we know the real chemistry of vowels and consonants, we shrink instinctly from such combinations. If a German word has the same sound as a Greek word, the two words cannot be the same, unless we ignore that independent process of phonetic growth which made Greek Greek, and German German. Whenever we find in Greek a media, a g, we expect in Gethic the corresponding tenuis. Thus the root gan, which we have in Greek yeymorem, is in Gothic kann. The Greek γών, Lat. genu, is in Gothic kniu. If, therefore, αδγή existed in Gothic it would be auko, and not augo. Secondly, the diphthong au in augo would be different from the Greek diphthong. Grimm supposed that the Gothic augo came from the same etymon which yields the Latin oc-ulus, the Sanskrit a k - s h - i, eye, the Greek down for down, and likewise the Greek stem on in or-on-a, opper, and oc-8-alper. It is true that the short radical vowel a in Sanskrit, o in Greek,

u in Latin, sinks down to u in Gothic, and it is equally true, as Grimm has shown, that, according to a phonetic law peculiar to Gothic, u before h and r is changed to uh. Grimm, therefore, takes the Gothic abgo for "abhb, and this for "uhb, which, as he shows, would be a proper representative in Gothic of the Sanskrit a k-an, or a ksh-an.

But here Grimm seems wrong. If the au of augowere this peculiar Gothic aû, which represents an original short a, changed to u, and then raised to a diphthong by the insertion of a short a, then that diphthong would be restricted to Gothic; and the other Teutonic dialects would have their own representatives for an original short a. But in Anglo-Saxon we find edge, in Old High German augă, both pointing to a labial diphthong, i. e. to a radical u raised to au.

Professor Ebel, in order to avoid this difficulty, proposed a different explanation. He supposed that the k of the root ak was softened to kv, and that augo represents an original agvà or ahvà, the v of hvà being inserted before the h and changed to u. As an analogous case he quoted the Sanskrit enclitic particle ka, Latin que, Gothie "hva, which "hva appears always under the form of uh. Leo Meyer takes the same view, and quotes, as an analogou, haubida as possibly identical with caput, originally "kapvat.

These cases, however, are not quite analogous. The enclitic particle k a, in Gothic *hva, had to less its final vowel. It thus became unpronounceable, and the short vowel u was added simply to facili-

Grassmann, Kahn's Zeitschrift, vol. ix. p. 23.
 Elel, Kahn's Zeitschrift, vol. viil. p. 242.

tate its pronunciation. There was no such difficulty in pronouncing "ah or "ah in Gothic, still less the derivative form "ahvô, if such a form had ever existed.

Another explanation was therefore attempted by the late Dr. Lottner.² He supposed that the root ak existed also with a nasal as ank, and that anks could be changed to auks, and auks to augs. In reply to this we must remark that in the Teutonic dialects the root ak nover appears as ank, and that the transition of an into au, though possible under certain conditions, is not a phonetic process of frequent occurrence.

Besides, in all these derivations there is a difficulty, though not a serious one, viz.: that an original tennis, the k, is supposed irregularly to have been changed into g, instead of what it ought to be, un h. Although this is not altogether anomalous,3 yet it has to be taken into account. Professor Curtius, therefore, though he admits a possible connection between Gothic augo and the root ak, speaks cautiously on the subject. On page 99 he refers to augo as more distantly connected with that root, and on p. 457 he simply refers to the attempts of Ebel, Grassmann, and Lottner to explain the diphthong au, without himself expressing any decided opinion. Nor does he commit himself to any opinion as to the origin of aiyo, though, of course, he never thinks of connecting the two words, Gothic aug6 and Greek my, as coming from the same root.

The etymology of the Greek abye, in the sense of

⁴ Schleicher, Compountum, § 112.

² Lettner, Kahn's Zeitschrift, vol. in. p. 319.

^{*} Lee Meyer. Des Gothische Spreiche, § 31.

light or splendor, is not known unless we connect it with the Sanskrit og as, which, however, means vigor rather than splendor. The etymology of oculus, on the contrary, is clear; it comes from a root ak, to be sharp, to point, to fix, and it is closely connected with the Sanskrit word for eye, akshi, and with the Greek book. The etymology of the German word Ange is, as yet, unknown. All we may safely assert is, that, in spite of the most favorable appearances, it cannot, for the present, be traced back to the same source as either the Greek abyle or the Latin oculus.

If we simply transliterated the Gothic augo into Sanskrit, we should expect some word like ohan, nom, oh ü. The question is, may we take the liberty, which many of the most eminent comparative philologists allow themselves, of deriving Gothic, Greek, and Latin words from roots which occur in Sanskrit, only, but which have left no trace of their former presence in any other language? If so, then there would be little difficuly in finding an etymology for the Gothic augo. There is in Sanskrit a root fih, which means to watch, to spy, to look. It occurs froquently in the Veda, and from it we have likewise a substantive, oha-s, look or appearance. If, in Sanskrit itself this root had yielded a name for eye, such as o han, the instrument of looking, I should not hesitate for a moment to identify this Sanskrit word o han with the Gothic augo. No objection could be mised on phonetic grounds. Phonetically the two words would be one and the same. But as in Sanskrit such a derivation has not been found, and as in Gothic the root uh never occurs, such an etymology would not be satisfactory. The number of words of unknown origin is very considerable as vet in Sanskrit, in Greek, in Latin, and in every one of the Aryan languages; and it is far better to acknowledge this fact, than to sanction the smallest violation of any of those phonetic laws, which some have called the straight jacket, but which are in reality, the leading strings of all true etymology.

If we now turn to grammar, properly so called, and ask what Comparative Philology has done for it, we must distinguish between two kinds of grammatical knowledge. Grammar may be looked upon as a mere art, and, as taught at present in most schools, it is nothing but an art. We learn to play on a foreign language as we learn to play on a musical instrument, and we may arrive at the highest perfection in performing on any instrument, without having a notion of thorough bass or the laws of harmony. For practical purposes this purely empirical knowledge is all that is required. But though it would be a mistake to attempt in our elementary schools to replace an empirical by a scientific knowledge of grammar, that empirical knowledge of grammar ought in time to be raised to a real, rational, and satisfying knowledge, a knowledge not only of facts, but of reasons; a knowledge that teaches us not only what grammar is, but how it came to be what it is. To know grammar is very well, but to speak all one's life of gerunds and supines and infinitives, without having an idea what these formations really are, is a kind of knowledge not quite worthy of a scholar.

We laugh at people who still believe in ghosts and witches, but a belief in infinitives and supines is not only tolerated, but inculcated in our best schools and universities. Now, what do we really mean if we speak of an infinitive? It is a time-honored name, no doubt, handed down to us from the Middle Ages; it has its distant roots in Rome, Alexandria, and Athens; — but has it any real kernel? Has it any more body or substance than such names as Satyrs and Lamias?

Let us look at the history of the name before we - look at the mischief which it, like many other names, has caused by making people believe that whenever there is a name there must be something behind it. The name was invented by Greek philosophers who, in their first attempts at classifying and giving names to the various forms of language, did not know whether to class such forms as ypaquer, ypaquer, ypaquer, γεγραφένη, γράφεσθαι, γράψεσθαι, γέγραφθαι, γράφασθαι, γραφθήται, γραφθήσευθαι, as nouns or as verbs. They had established for their own satisfaction the broad distinction between nouns (dodgara) and verbs (hippara); they had assigned to each a definition, but, after having done so, they found that forms like younger would not fit their definition either of noun or verb,1 What could they do? Some (the Stoics) represented the forms in on etc., as a subdivision of the verb, and introduced for them the name Jour announdary or yeurorary. Others recognized them as a separate part of speech, raising their number from eight to nine or ten. Others, again, classed them under the adverb (¿ziþþana), as one of the eight recognized parts of speech. The Stoics, taking their stand on Aristotle's definition of pipus, could not but regard the infinitive as fines, because it implied time, past, present, or future, which was with them recognized

¹ Choeroboscus, R. A., p. 1274, 20: To aerasindare distribution of the also distributed for the control of the

as the specific characteristic of the verb (Zeitwort). But they went further, and called forms such as youdser, etc., Since, in the highest or most general sense, distinguishing other verbal forms, such as γράφα, etc., by the names of κατηγόρημα οτ σύμβακα. Afterwards, in the progress of grammatical science, the definition of join became more explicit and complete. It was pointed out that a verb, besides its predicative meaning (Ludaess), is able to 1 express several additional meanings (rapasoAustiguera or rapeudaout), viz : not only time, as already pointed out by Aristotle, but also person and number. The two latter meanings, however, being absent in youten, this was now called bijus draphydares (without by-meanings), or yougheror, and, for practical purposes, this lims draphydars soon became the prototype of conjugation.

So far there was only confusion, arising from a want of precision in classifying the different forms of the verb. But when the Greek terminology was transplanted to Rome, real mischief began. Instead of phina younderers, we now find the erroneous, or, at all events, inaccurate, translation, modus infinitus, and infinitivus by itself. What was originally meant as an adjective belonging to phina, became a substantive, the infinitive, and though the question areas again and again what this infinitive really was, whether a noun, or a verb, or an adverb; whether a mood or not a mood; the real existence of such a thing as an infinitive could no longer be doubted. One can hardly trust one's eyes in reading the ex-

traordinary discussions on the nature of the infinitive in grammatical works of successive centuries up to the nineteenth. Suffice it to say that Gottfried Hermann, the great reformer of classical grammars, treated the infinitive again as an adverb, and, therefore, as a part of speech belonging to the particles. We ourselves were brought up to believe in infinitives; and to doubt the existence of this grammatical entity would have been considered in our younger days a most dangerous heresy.

And yet, how much confused thought, and how much controversy might have been avoided, if this grammatical term of infinitive had never been invented.1 The fact is that what we call infinitives are nothing more or less than cases of verbal nouns, and not till they are treated as what they are shall we ever gain an insight into the nature and the historical

development of these grammatical monsters.

Take the old Homeric infinitive in news, and you find its explanation in the Sanskrit termination mane, i. c. manai, the native of the suffix man (not, as others suppose, the locative of a suffix mana), by which a large number of nouns are formed in Sanskrit. From gn à, to know, we have (g) n am a n, Latin (g) nomen, that by which a thing is known, its name; from gan, to be born, ganman, birth. In Greek this suffix man is chiefly used for forming masculine nouns, such as you pure, yes amos, literally a knower; who pure, a sufferer; or as any in receipt, a shepherd, literally a feeder. In Latin, on the contrary, men occurs frequently at the end of abstract nouns in the neuter gender, such as teg-men, the covering, or tege-men or tegi-men; solamen, consolation; coca-men, an appellation; certamen, a contest; and many more, particularly in ancient Latin; while in classical Latin the fuller suffix mentum predominates. If then we read in Homer, when freely down declarational, we may call declarational an infinitive, if we like, and translate "he made dogs to protect the house;" but the form which we have before us, is simply a dative of an old abstract noun in per, and the original meaning was "for the protection of the house," or "for protecting the house;" as if we said in Latin, tutamini domum.

The infinitives in $\mu \omega$ may be corruptions of those in $\mu \omega \omega$, unless we take $\mu \omega$ as an archaic accusative, which, though without analogy in Greek, would correspond to Latin accusatives like tegmen, and express the general object of certain acts or movements. In Sanskrit, at least in the Veda, infinitives in mane occur, such as d K-mane, to give, Greek & -\u03c4-\u

vid-mane, to know, Greek Fig-unu.

The question next arises, if this is a satisfactory explanation of the infinitives in pean, how are we to explain the infinitives in sea? We find in Homer, not only impart, to go, but also tien; not only impart, to go, but also tien; not only impart, to be, but also sim, i. e., in-can. Bopp simply says that the m is lost, but he brings no evidence that in Greek an m can thus be lost without any provocation. The real explanation, here, as elsewhere, is supplied by the Beieinander (the collateral growth), not by the Nacheinander (the successive growth) of language. Besides the suffix man, the Aryan languages possessed two other suffixes, can and an, which were added to verbal bases just like man. By the side of dâman, the act of giving, we find in the Veda

⁴ Bearby, Greent and Occident, vol. i. p. 506; vol. ii. pp. 57, 122.

dâ-van, the act of giving, and a dative dâ-vâne, with the accent on the suffix, meaning for the giving, i. s. to give. Now in Greek this v would necessarily disappear, though its former presence might be indicated by the digamma archivum. Thus, instead of Sauskrit dâvâne, we should have in Greek cofficu, coiru, and contracted coiru, the regular form of the infinitive of the norist, a form in which the diphthong or would remain inexplicable, except for the former presence of the lost syllable fe. In the same manner alim stands for to-ficu, to-time, then, alice, then the accent remains on the suffix van, just as it did in Sanskrit.

As the infinitives in poor were traced back to the suffix man, and those in Form to a suffix van, the regular infinitives in con after consonants, and on after vowels, must be referred to the suffix an, dat. ane. Here, too, we find analogous forms in the Veda. From dhûrv, to hurt, we have dhûrv-ane, for the purpose of hurting, in order to hurt; in Rv. IX. 61, 30, we find with v-ane, Rv. VI. 61, 13, in order to conquer, and by the same suffix the Greeks formed their infinitives of the perfect, kekan-isa, and the infinitives of the verbs in µs, riblical, &lot-iva, larders, etc.

In order to explain, after these antecedents, the origin of the infinitive in as, as rerear, we must admit either the shortening of ratio 10, which is difficult; or the existence of a locative in 1 by the side of a dative in 11. That the locative can take the place of the dative we see clearly in the Sanskrit forms of the norist, parshani, to cross, neahani, to lead, which, as far as their form, not their origin, is concerned, would well match Greek forms like

λέστω in the future. In either case, τέστεσι in Greek would have become τέστει, just as τέστεσι became τέστει. In the Dorie dialect this throwing back of the final is omitted in the second person singular, where the Dorians may say ἐμέλγει for ἐμέλγαι; and in the same Dorie dialect the infinitive, too, occurs in ε, instead of ar; ε, g., λείδει instead of ἀκίδαι. (Buttman, "Greek Gr.," § 103, 10, 11.)

In this manner the growth of grammatical forms can be made as clear as the sequence of any historical events in the history of the world, nay, I should say far elearer, far more intelligible; and I should think that even the first learning of these grammatical forms might be somewhat seasoned and rendered more really instructive by allowing the pupil, from time to time, a glimpse into the past history of the Greek and Latin languages. In English what we call the infinitive is clearly a dative; to speak shows by its very preposition what it was intended for. How easy, then, to explain to a beginner that if he translates, " able to speak," by land; dres, the Greek infinitive is really the same as the English, and that clasic stands for sixes, and this for elecus, which, to a certain extent, answers the same purpose as the Greek too, the dative of iron and therefore origimally freeze.

And remark, these very datives and locatives of nouns formed by the suffix of in Greek, as in Sanskrit, es in Latin, though they yield no infinitives in Greek, yield the most common form of the infinitive in Latin, and may be traced also in Sanskrit. As from genus we form a dative generi, and a locative genere, which stands for genere, so from gigno an abstract noun would be formed, gignus, and from it a dative

gigneri, and a locative, gignere. I do not say that the intermediate form gignus existed in the spoken Latin, I only maintain that such a form would be anniogous to gen-us, op-us, fad-us, and that in Sanskrit the process is exactly the same. We form in Sanskrit a substantive kakshas, sight, kakshus, ove; and we find the dative of kakshas, i. e. kakshase, used as what we should call an infinitive, in order to see. But we also find another so-called infinitive, givase, in order to live, although there is no noun, gîvas, life; we find ayase, to go, although there is no noun ayas, going. This Sanskrit ayase explains the Latin i-re, as * i-vane explained the Greek tion. The intention of the old framers of language is throughout the same. They differ only in the means which they use, one might almost say, at random; and the differences between Sauskrit, Greek, and Latin are often due to the simple fact that out of many possible forms that might be used and had been used before the Arvan languages became traditional, settled, and national, one family or clan or nation fancied one, another another. While this one became fixed and classical, all others became useless, remained perhaps here and there in proverbial sayings or in sacred songs, but were given up at last completely, as strange, obsolete, and unintelligible.

And even then, after a grammatical form has become obsolete and unintelligible, it by no means loses its power of further development. Though the Greeks did not themselves, we still imagine that we feel the infinitive as the case of an abstract noun in many constructions. Thus palerer expers, difficult to find, was originally, difficult in the finding, or diffi-

cult for the act of finding ; burde kiyes, meant literally, powerful in speaking; apyona kiyan, I begin to speak, i. c., I direct myself to the act of speaking; silveri as authoracion, you bid me to speak, i. c., you order me towards the act of speaking ; фовобная былкуyear or, I am airaid of refuting you, i. s., I fear in the act, or, I shrink when brought towards the act, of refuting you; our loyer kiyer, your business is in or towards speaking, you have to speak; =uou door yakeron, there is something difficult in pleasing everybody, or, in our endeavor after pleasing everybody. In all these cases the so-called infinitive can, with an effort, still be felt as a noun in an oblique case. But in course of time expressions such as yakerur dann it is difficult to please, dyabor heyer, it is good to speak, left in the mind of the speaker the impression that don and Xiyen were subjects in the nominative, the pleasing is difficult, the speaking is good; and by adding the article, these oblique cases of verbal nouns actually became nominatives, ro aser, the act of pleasing, of Aiyee, the net of speaking, capable of being used in every case, e. g., integral voi rair, desiderium bibendi. This regeneration, this process of creating new words out of decaying and decayed materials may seem at first sight incredible, yet it is as certain as the change with which we began our discussion of the infinitive. I mean the change of the conception of a jojua your drawer, a verbiem generalissimum, into a generalissimus or infinitivus. Nor is the process without analogy in modern languages. The French Parenir, the future (Zukunft), is hardly the Latin advenire. That would mean the arriving, the coming, but not what is to come. I believe Cavenir was (quod est) ad venire, what is to come, contracted

to Vaccuir. In Low-German to come assumes even the character of an adjective, and we can speak not only of a year to come, but of a to-come year, de tokum Jahr.

This process of grammatical vivisection may be painful in the eyes of classical scholars, yet even they must see how great a difference there is in the quality of knowledge imparted by our Greek and Latin grammars, and by comparative grammar. I do not deny that at first children must learn Greek and Latin mechanically, but it is not right that they should remain satisfied with mere paradigms and technical terms, without knowing the real nature and origin of so-called infinitives, gerunds, and supines, Every child will learn the construction of the accusative with the infinitive, but I well remember my utter amazement when I first was taught to say Miror te ad me nihil scribere, "I am surprised that you write nothing to me." How easy would it have been to explain that scribers was originally a locative of a verbal noun, and that there was nothing strange or irrational in saying, "I wonder at thee in the act of not writing to me." This first step once taken, everything else followed by slow degrees, but even in phrases like Spero te mihi ignoscere, we can still see the first steps which led from "I hope or I desire thee, toward the act of forgiving me," to "I trust thee to forgive me." It is the object of the comparative philologist to gather up the scattered fragments, to arrange them and fit them, and thus to show that language is something rational, human, intelligible, the very embodiment of the mind of man in its growth from the lowest to the highest stage, and with capabilities for

¹ Chips, vol. iii. p. 134.

further growth far beyond what we can at present conceive or imagine.

As to writing Greek and Latin verse, I do not maintain that a knowledge of Comparative Philology will help us much. It is simply an art that must be acquired by practice, if in these our busy days it is still worth acquiring. A good memory will no doubt enable us to say at a moment's notice whether certain syllables are long or short. But is it not far more interesting to know why certain vowels are long and others short, than to be able to string longs and shorts together in imitation of Greek and Latin hexameters? Now in many cases the reason why certain vowels are long or short, can be supplied by Comparative Philology alone. We may learn from Latin grammar that the i in fidus, trusty, and in fido, I trust, is long, and that it is short in fides, trust, and perfidus, faithless; but as all these words are derived from the same root, why should some have a long, others a short vowel? A comparison of Sanskrit at once supplies an answer. Certain derivatives, not only in Latin but in Sanskrit and Greek too, require what is called Gunn of the radical vowel. In fidus and fide, the i is really a diphthong, and represents a more ancient ei or oi, the former appearing in Greek willow, the latter in Latin fordus, a truce.

We learn from our Greek grammars that the second syllable in δείκετμε is long, but in the plural, δείκετμε, it is short. This cannot be by accident, and we may observe the same change in δέμετμε and δέμετμε, and similar words. Nothing, however, but a study of Sanskrit would have enabled us to discover the reason of this change, which is really the accent

in its most primitive working, such as we can watch it in the Vedic Sanskrit, where it produces exactly the same change, only with far greater regularity and

perspicuity.

Why, again, do we say in Greek, είδα, I know, but in-μιν, we know? Why νέτληκα, but νέτληκα? Why μέρωνα, but μέρωμεν? There is no recollection in the minds of the Greeks of the motive power that was once at work, and left its traces in these grammatical convulsions; but in Sanskrit we still see, as it were, a lower stratum of grammatical growth, and we can there watch the regular working of laws which required these changes, and which have left their impress not only on Greek, but on Sanskrit, and even on German. The same necessity which made Homer say είδα and ίδμα, and the Vedic poet ν έ d a and ν i d m á s, still holds good, and makes us say in German, Ich weiss, I know, but wir wissen, we know.

All this becomes clear and intelligible by the light of Comparative Grammar; anomalies vanish, exceptions prove the rule, and we perceive more plainly every day how in language, as elsewhere, the conflict between the freedom claimed by each individual and the resistance offered by the community at large, establishes in the end a reign of law most wonderful,

yet perfectly rational and intelligible.

These are but a few small specimens to show you what Comparative Philology can do for Greek and Latin; and how it has given a new life to the study of languages by discovering, so to say, and laying bare, the traces of that old life, that prehistoric growth, which made language what we find it in the oldest literary monuments, and which still supplies the vigor of the language of our own time. A

knowledge of the mere facts of language is interesting enough; may, if you ask yourself what grammars really are - those very Greek and Latin grammars which we hated so much in our schoolboy days - you will find that they are store-houses, richer than the richest museums of plants or minerals, more carefully classified and labeled than the productions of any of the great kingdoms of nature. Every form of declension and conjugation, every genitive and every so-called infinitive and gerund, is the result of a long succession of efforts, and of intelligent efforts, There is nothing accidental, nothing irregular, nothing without a purpose and meaning in any part of Greek or Latin grammar. No one who has once discovered this hidden life of language, no one who has once found out that what seemed to be merely anomalous and whimsical in language is but, as it were, a petrification of thought, of deep, curious, poetical, philosophical thought, will ever rest again till he has descended as far as he can descend into the ancient shafts of human speech, exploring level after level, and testing every successive foundation which supports the surface of each spoken language.

One of the great charms of this new science is that there is still so much to explore, so much to sift, so much to arrange. I shall not, therefore, be satisfied with merely lecturing on Comparative Philology, but I hope I shall be able to form a small philological society of more advanced students, who will come and work with me, and bring the results of their special studies as materials for the advancement of our science. If there are scholars here who have devoted their attention to the study of Homer, Comparative Philology will place in their hands a light

with which to explore the dark crypt on which the temple of the Homeric language was erected. If there are scholars who know their Plantus or Lucretins. Comparative Philology will give them a key to grammatical forms in ancient Latin, which, even if supported by an Ambrosian palimpsest, might still seem hazardous and problematical. As there is no field and no garden that has not its geological antecedents, there is no language and no dialect which does not receive light from a study of Comparative Philology, and reflect light in return on more general problems. As in geology again, so in Comparative Philology, no progress is possible without a division of labor, and without the most general cooperation. The most experienced geologist may learn something from a miner or from a ploughboy; the most experienced comparative philologist may learn something from a schoolboy or from a child.

I have thus explained to you what, if you will but assist me, I should like to do as the first occupant of this new chair of Comparative Philology. In my public lectures I must be satisfied with teaching. In my private lectures, I hope I shall not only teach, but also learn, and receive back as much as I have

to give.

NOTE A.

ON THE PINAL DENTAL OF THE PRONOMINAL STEM tad.

One or two instances may been suffice to show how compassless even the best comparative philologists find themselves it, without a knowledge of Sanskrit, they venture into the deep waters of grammatical research. What can be clearer at first sight than that the demonstrative pronoun that has the same base in Sanskrit, Greek, Latin, and German? Bopp places together (§ 349) the following forms of the neuter:—

Samkrit Zend Greek Latin Gethic tat tad. +8 is-twi thank

and he draws from them the following conclusions :-

In the Sanskrit ta-t we have the same pronominal element repeated twice, and this repeated pronominal element became afterwards the general sign of the neuter after other pronominal stems, such as y a-t, k a-t.

Such a conclusion seems extremely probable, particularly when we compare the musculine form sa-s, the old nom, sing, instead of the ordinary sa. But the first question that has to be answered is, whether this is phonetically possible, and how.

If that in Sanskrit is the part of the we expect in Gothic the part of the par

Both Gothic that-in, therefore, and Latin istud, postulate a Sanskrit taid, while Zend and Greek at all events do not conflict with an original final media. Everything therefore depends on what was the original form in Sanskrit; and here no Sanskrit scholar would hesitate for one moment between t at and taid. Whatever the origin of tat may have been, it is quite

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certain that Sanskrit knows only of tad, never of tat. There are various ways of testing the original surd or squant nature of final components in Sanskrit. One of the safest seems to me to see how these consumnts behave before taddhits or secondary suffixes, which require no change in the final consonant of the base. Thus before the suffix tyu (called kan by Panini) the final consonant is never changed, yet we find 1 nd -1 ya, like mad-lya, tvad-lya, asmad-lya, yushmad-lya, etc. Again, before the possessive suffix vat final consumnts of nominal bases suffer no change. This is distinctly stated by Pasini, L. 4. 19. Hence we have vidyut-van, from vidyut, lightning, from the root dyut; we have udasvit-van, from udn-svi-t. In both cases the original final tennis remains unchanged. Hence, if we find tad-van, kad-van, our test shows no again that the final consonant in tad and kad is a media, and that the d of these words is not a modification of t.

Taking our stand therefore on the andoubted facts of Sanskrit grammar, we cannot recognize t as the termination of the neutor of pronominal stoms, but only d; 1 nor can we accept Bopp's explanation of and as a compound of an +t, unless the transition of an original t into a Sanskrit and Latin d can be established by sufficient evidence. Even then that transition would have to be referred to a time before Sanskrit and Gothic became distinct languages, for the Gothic thata is the counterpart of the Sanskrit and, and not of that.

Latin d by the termination of the old ablatives, such as gnaiced, etc. But here again it is certain that the original termination was d, and not t. It is so in Latin, it may be so in Zend, where, as Justi points out, the d of the ablative is probably a media.*

In Section 1 to contribute a media in such forms as mad 1 and

Bopp endeavors to defend the transition of an original t into

In Sanskrit it is certainly a media in such forms as mad, tvad, as mad, which Bopp considers as old ablatives, and which in madly a, etc., show the original media. In other cases it is impossible in Sanskrit to test the nature of the final dental in

Weich ist es (t oder d) wohl im abl. sing. gufnåt (gufnåd hab

Justi, Hamilton's der Zeinlegeunke, p. 362.

[†] Dr. Kielbern in his grammar gives correctly to d as base, to the nomand acc. single, because in the latter case phonetic rules either require or allow the change of d into t. Boehtlingk, Roth, and Benfey also give the right forms. Carties, like Bopp, gives yat, Schleicher tat, which he supposes to have been changed at an early time into tad (§ 203).

the ablative, because d is always determined by its position is a sentence. But under no circumstances could we appeal to Latin general is order to prove a transition of an originat t into d; while on the contrary all the evidence at present is in favor of a media, as the final letter both of the ablative and of the neuter bases of pronouns, such as t a d and y a d.

These may seem minution, but the whole of Comparative Grammar is made up of minutes, which, asvertheless, if carefully joined together and comunted, lead to conclusions of unex-

pected magnitude.

NOTE B.

DED FEMININE BASES IN & THE F IN THE NOMINATIVE SINGULAR ?

I ADD one other instance to show how a more accurate knowledge of Sanskrit would have guarded comparative philologists against rash conclusions. With regard to the nominative singular of feminine bases ending in derivative a, the question arose, whether words like bong in Latin, ayand in Greek, slv4 in Sanskrit, had originally an s as the sign of the nom, sing., which was afterwards lost, or whether they never took that termination. Bopp (§ 136), Schleicher (§ 246), and others seem to believe in the loss of the s, chiefly, it would seem, because the s is added to feminion bases ending in 1 and u. Benfey 1 takes the opposits view, viz. that feminines in a never took the s of the nom, sing. But he adds one exception, the Vedic gull-s. This remark has caused much mischief. Without verifying Benfey's statements, Schleicher (L. c.) quotes the same exception, though eautiously referring to the Sanskrit dictionary of Boehillingk and Roth as his authority. Latur writers, for instance Morgaet,2 leave out all restrictions, simply appealing to this Vedic form gna-s in support of the theory that feminine bases in d too took originally s as sign of the nom, sing, and afterwards dropped it. Even so careful a scholar as Büchler 3 speaks of the s as lost.

There is, first of all, no reason whatever why the s should

¹ Orient and Occident, vol. 1. p. 298.

² Entwickelung der Lateinlechen Formenlehre, 1870, p. 20.

^{*} Geundries der Lateinischen Declination, 1866, p. 8

have been added 1; secondly, there is none why it should have been lost. But, whatever opinion we may hold in this respect, the appeal to the Vedic g n a-s cannot certainly be sustained, and the word should at all events be obelized till there is better evidence for it than we possess at present.

1 See Benfey, L c. p. 208.

In the dictionary of Bochtlingk and Roth we read s. v. gn à, "scarce in the singular; nom, sing, seems to be gn à s, seconding to the passage Rv. IV. 0, 4, and Naigh. I. II, in one text, while the other text gives the form gn à." Against this, it should be remarked, that it would make no difference whether the MSS of the Naighantaka give gn à or gn às. Gn à would be the nom. sing., gn às would be the form in which the word occurs must frequently in the Veda. It is easy to see that the collector of the Naighantaka allowed himself to quote words according to either principle.

Devasāga, in his communiary on guā, explains it: "Gamer dinhor dhāpriyasyagyadidays nak (U. S. III. 8) iti bahulakān napratyayo bihavati tilopas ka; tap. Gatyarnhā baddhyarthāk gānanti karmeti gaāk. Yadvā gakkānti yagdeshu; abhi yagdan griathi no guāvak (patrivak) liv. I. 15, S. Khandāssai vai guā iti brāhmanum iti Mādhavak. Asmīk id u guābkid (Bv. I. 61, 8) ity api; gāyatryādyā devapatnya iti za eva. Tamāk

Akandaskin gâyatryadinâm vàgrūpatvád gnávyapademá.

In his remarks on Nigh, III. 23, it is quite clear that Devarage takes guah as a new, plure, not as a new, sing. He says: Mend guah iti strindan; uhhiav api sabdau vyähhydtun vännämana. Männyanti hi thä patisvasuramintalalayah, pägyä bhūshayitavyās keti sunarasāt. Gakkhanty emih patayo patyārhinaā. The paessage quoted in the Nirukta III. 29, gnās tvākreitann spano 'tzavata vayitryo 'vayan, is taken from the Tāmfya-brāhmana I. 8, 2; "O dress I the women out thee out, the weavers wore thee."

Thus every support which the Nighastu or the Nirukia was supposed to give to the form gnakes a nome sing, vanishes. And if it is said s. c. gnaspati, that is this compound gnake night be taken as a nome sing, and that the Pada-text separates gnake-patis, it has been overlooked that the separation in Rv. II. 38, 10, is a more misprint. See Prilighbya, 738. The compound gnakepatis has been correctly explained as standing for gnakykepatis, and the same old genitive is also found in gaspatis and gaspatys m. See also Vagnam. Printishhya, IV. 30. It is important to observe that the metre requires us to pronounce gnakepati either as gnakespatis or as ganaepatis.

There is, as far as I know, no passage where g n & 5 in the Veda can be taken as a nome sing, and it should be observed that g n & 5 as some pluries almost always disyllable to the Higweda, excepting the tenth Massada's that the sec. sing. (V. 42, 6) is, however, disyllable, but the sec. plur more syllable (I. 22, 10). In V 43, 13, we must either read g had or

helphdhTå-

The passage which is always quoted from the Rv. IV. 2, 4, as showing g n 8-s to be a nom. sing. In s, is extremely difficult, and as it stands at present, most likely corrupt:—

Utá gnílá agnílá adhvaró utó grihá-patilé dáme, utá brahmā

ni sidati.

This could only be translated : -

"Agai sits down at the sacrifice as a woman, as lord in the home, and as priest."

This, however, is impossible, for Agni, the god of fire, is never represented in the Veda as a woman. If we took g n h \(\text{\$\lambda\$} \) as a gonitive, we might translate, "Agni sits down in the sacrifice of the lady of the house," but this again would be utterly incongruous in Veille poetry.

I believe the verse is corrupt, and I should propose to real:-

Uti agnāv agnā adhvaré.

"Agni sits down at the sacrifice in the fire, as lord in the

house, and as a priest."

The ideas that Agni, the god of fire, sits down in the fire, or that Agni is lighted by Agni, or that Agni is both the sacrificial fire and the priest, are familiar to every reader of the Yeda. Thus we read, I. 12, 8, agning agnit sim idhyate, " Agni is lighted by Agni;" X. 88, 1, we find Agni invoked as 2-butam agnau, etc.

But whether this connulation be right or wrong, it must be quite clear how massic it would be to support the theory that femining bases in & called originally in s by this solitary passage

from the Veda.

NOTE C.

GRAMMATICAL FORMS IN SANSERIT CORRESPONDING TO SO-CALLED INFINITIVES IN GREEK AND LATIN.

There is no trace of such a term as infinitive in Sanskrit, and yet exactly the same forms, or, at all events, forms strictly analagous to those which we call infinitives in Greek and Latin, exist in Sanskrit. Here, however, they are treated in the simplest way.

Sanskrit grammarizes when giving the rules according to which nouns and adjectives are derived from verbal roots by means of primary suffixes (Kra), mention among the rest the suffixes tum (Pas., HL 3, 10), so, as e, adhyai, tavai, tave, shyai, c, am, tos, as (IV. 4, 9-17), defining their meaning

in general by that of turn (III. 3, 10). This turn is said to express immediate futurity in a verb, if governed by another word conveying an intention. An example will make this clearer. In order to say he goes to cook, where "he goes " expresses an intention, and "to cook" is the object of that intention which is to follow immediately, we place the suffix tum at the end of the verb pak, to cook, and say in Sanskrit, vragati pak-tum. We might also my páčako vragati, he goes as one who means to cook, or vragati pakaya, he goes to the act of cooking, placing the abstract noun in the dative; and all these constructions are mentioned together by Sanskrit grammarians. The same takes place after verbs which express a wish (III. 3, 158); e. g., ikkānti paktum, he wishes to cook, and after such words as kala, time, samaya, opportunity, vela, right moment (III. 8, 167); c. g., kalah pakum, it is time to cook, etc. Other verbs which govern forms in tum are (III. 4, 65) sak, to be able ; dheish, to dare; gan, to know; glai, to be weary; glaz, to endeavor; arabh, to begin; labh, to get; prakram, to begin; uteah, to endure; arh, to deserve; and words like ast i, there is; e. g., asti bhoktum, it is (possible) to est; not, it is (necessary) to est. The forms in turn are also enjoined (III. 4, 66) after words like alam, expressing fitness, e.g., paryapto bhoktum, alam bhoktum, kusalo bhektum, fit or able to eat.

Here we have everything that is given by Sanskrit grammarians is place of what we should call the Chapter on the Infinitive in Greek and Latin. 'The only thing that has to be added is the provision, understood in Pasini's grammar, that

such suffixes as tum, etc., are indeclinable.

And why are they indeclinable? For the simple reason that they are themselves case terminations. Whether Pasini was aware of this, we cannot tell with certainty. From some of his remarks it would seem to be so. When treating of the cases, Pasini (L. 4, 33) explains what we should call the dutive by Sampradâna. Sampradâna means giving (terms), but Pasini uses it here as a technical term, and assigns to it the definite meaning of "he whom one looks to by any art" (not only the act of giving, as the commentators imply). It is there fore what we should call "the remote object." Ex. Bean massigns of meaning death, he gives wealth to the Brahman. This is alterwards extended by several rules explaining that the

Sampradana comes in after verbs expressive of pleasure caused to somebody (1. 4, 33); after #1 agh, to applaud, hau, to dissemble, to coneral, stha, 1 to reveal, sap, to curse (L. 4, 34); after dharay, to owe (L 4, 35); sprih, to long for (L 4, 36); after verbs expressive of anger, ill-will, envy, detraction (1. 4, 37); after radh and 1ksh, if they mean to consider concorning a person (I. 4, 39); after pratisru and asru, in the sense of according (L.4, 40); anugri and pratigri, in the sense of acting in accordance with (I. 4, 41); after parikrl, to buy, to hire (I. 4, 44). Other cases of Sumpradana are mentioned after such words as nama h, salnintion to, swasti, hail, swah a salutation to the gods, swadh a salutation to the manes, alam, sufficient for, vashat, offered to, a sacrificial invocation, etc. (II. 3, 16); and in such expressions as na tvam tringya manye, I do not value thee a straw (IL 3, 17); gramaya gakkhati, he goes to the village (IL 2, 12); where, however, the accusative, too, is equally admissible. Some other cases of Sampradâna are mentioned in the Vartilkas; e. g., I. 4, 44; muktave harim binsgati, for the sake of liberation he worships Hari; vätäya kapilä vidyut, a dark red lightning imiienter wind. Very interesting, too, is the construction with the probibitive m # ; e. g. m# £#pal#yn, lit. not for unsteadiness, i. e., do not not unatendily.3

In all these cases we easily recognize the identity of Sampradāna with the dative in Greek and Latin. If therefore we see that Pānini in some of his rules states that Sampradāna takes the place of turn, the so-called infinitive, we can hardly doubt that he had perceived the similarity in the functions of what we call dative and infinitive. Thus he says that instead of phalany abartum yati, he goes to take the fruits, we may use the dative and sny phalebhyo yati, he goes for the fruits; instead of yashrum yati, he goes to sacrifice, yagāya yati, he goes to the act of sacrificing (II. 3, 14-15).

But whether Pasini recognized this fact or not, certain it is that we have only to look at the forms which in the Veda take the place of turn, in order to convince ourselves that most of

^{*} Stha, exhibitely abodhumanuk that this to reveal by gesteres, a meaning not found in our dictionaries. Willem renders in arroughly by to stay with, which would govern the instrumental. Sap, carsing, means to not surses in order to convey some meaning or intention to another person.

^{*} Wilson's Sonskrit Grammar, p. 300.

them are datives of verbal nouns. As far as Sanskrit grammar is concerned, we may safely cancel the name of infinitive altogether, and speak instead boldly of datives and other cases of verbal nouns. Whether these verbal nouns admit of the dative ease only, and whether some of those datival terminations have become obsolete, are questions which do not concern the grammarian, and nothing would be more unphilosophical than to make such points the specific characteristic of a new grammatical category, the infinitive. The very idea that every noun must possess a complete set of cases, is contrary to all the lessons of the history of language; and though the fact that some of these forms belong to an antiquated phase of language has undoubtedly contributed towards their being used more readily for certain syntactical purposes, the fact remains that in their origin and their original intention they were datives and nothing else. Neither could the fact that these datives of verbal nouns may govern the same case which is governed by the verb, be med as a specific mark, because it is well known that, in Sanskrit more particularly, many nouns retain the power of governing the accusative. We shall now examine some of these so-called infinitives in Sanskrit.

DATIVES IN E.

The simplest dative is that in c, after verbal bases emling in consonants or d, e. g., drise, for the sake of swing, to see; rid-c, to know, paribhvee, to overcome; sraddhé kām, to believe.

DATIVES IN AL.

After some verbs ending in \$\hat{a}\$, the dative is irregularly (Grammar, \$\\$ 239, 240) formed in \$n\hat{i}\$; Rv. VII. 19, 7, paradai, to surrender. III. 60, 4, pratimai, to compare, and the important form vay odhai, of which more by and by.

Accusatives in am. Genitives and Ablatives in as. Locatives in z.

By the side of these datives we have analogous accusations in om, genitives and ablatives in as, locatives in i.

Accusative: I. 73, 10, sakéma yámam, May we be alde to get. I. 24, 3, sakéma tvá samídhan, May we be able to light

³ In verte companied with propositions the accent is on the pomilis mate: 4. p., sam idhe, at i kram e, etc.

thee. This may be the Oscan and Umbrian infinitive in our, one (a, a), if we take y a m a as a base in a, and m as the sign of the accusative. In Sanskrit it is impossible to determine this question, for that bases in a also are used for similar purposes is clearly seen in datives like d a bh kya; c, g, Rv. V. 54, Z, na dabhdya, not to conquer; VIII. 26, 1, nr/bhyah taraya similarah su-parah, the rivers easy to cross for men. Whether the Vedic imperatives in a ya (xa y a k) admit of a similar explanation is doubtful on account of the accent.

Genitive: vilikhaā, in isvaro vilikātā, cognizant of drawing; and possibly X. 108, 2, atlakādaā bldyāsā, from fear of

croming.

Ablative: Rv. VIII. 1, 12, purk strálak, before striking. Locative: Rv. V. 52, 12, drást tvishé, to shine la glancing (?)

DATIVES IN E-E.

The same termination of the dative is added to verbal bases which have taken the increment of the norist, the s. Thus from gi, to conquer, we have gi-sh, and ge-sh, and from both datival forms with infinitival function. I. 111, s, to mak hinvantu sataye dhiyé gishé, May they bring us to wealth, wisdom, victory!

 100, 11, apăm tokásya tánayasya geshé, May Indra help us for getting water, children, and descendants. Cf. VI. 44, 18.

Or, after bases ending in consonants, upaprakshé: V. 47, 5, upa-prakshé vrishanaš --- vadhväš yanti šličas, the men

go towards their wives to embrace.

These focus correspond to Greek infinitives like Asses and reion, possibly to Latin infinitives like force, for fer-se, relie for sel-se, and volusi-se; for se, following immediately on a consonant, can never represent the Sanskrit as c. With regard to infinitives like for-se, die-se, I do not venture to decide whether they are primitive forms, or contracted, though for-se could hardly be called a contraction of fecises. The 2d pera sing of the imperative of the 1st acrist middle, Airm, is identical with the infinitive in form, and the transition of meaning from the infinitive to the imperative is well known in Greek and other languages. (Heida & Sand Airm) re other ransom). Several of these acristic forms are sometimes very perplexing in Sanskrit, If we find, for instance, stushé, we cannot always tell whether

it is the infinitive (Afras); or the 1st pers. sing, of the acr. Atmanen, in the subjunctive (for stuckni), Let me praise (Adream); or lastly, the 2d pers, sing, Atmunep, in the indicative (Ady). If atushe has no accent, we know, of course, that it cannot be the infinitive, as in X. 93, 9 ; but when it has the necent on the last, it may, in certain constructions, be either infinitive, or 1st pers. sing. nor. Atm. subj. Here we want for more careful grammatical studies on the language of the Veda. before we can venture to translate with certainty. In places, for instance, where as in I. 122, I we have a nominative with stucké, it is clear that it must be taken as an infinitive, stushe sa sam --- ratifa, your gift, Varuna and Mitra, is to be praised; but in other places, such as VIII. 5, 4, the choice is difficult. In VIII. 65, 5, indra grinishe u studie, I should propose to translate, Indra, thou longest for praising, thus desirest to be penisod, cf. VIII. 71, 15; while in II. 20, 4, tim u stushe indram tâm grindshe, I translate, Let me praise Indra, let me land him, admitting here, the irregular retention of Vikarana in the acrist, which can be defended by analogous forms such as gri-ni-sh-anl, stri-ni-sh-ani, of which more hereafter. However, all those translations, as every real scholar knows, are, and can be tentative only. Nothing but a complete Veille grammar, such as we may soon expect from Professor Benfey, will give us safe ground to stand on.

DATIVES IN Arat.

Feminino bases in \$\textit{d}\$ form their dative in \$\text{k}\$ a \$\text{k}\$, and thus we find \$\text{k}\$ ar \$\text{k}\$ y a i used in the Veda, VII. 17, 1, as what we should call an infinitive, in the sense of to go. No other cases of \$\text{k}\$ ar \$\text{k}\$ have as yet been met with. A similar form is \$g\$ \text{k}\$ r\$\text{k}\$ y a i, to praise, \$\text{L}\$ 38, 13.

DATIVES IN ATE.

We have next to consider hases in f, forming their dative in a ye. Here, whenever we are acquainted with the word in other cases, we naturally take age as a simple dative of a norm. Thus in L 31, 8, we should translate sanaye dhananam, for the acquisition of treasures, because we are accustomed to other cases, such as L 100, 13, sanayas, acquisitions, V. 27, 2, sanam, wealth. But if we find, V. 80, 3, dristy e nates to at, she stood to be seen by us, lit., for our seeing, then we

prefer, though wrongly, to look upon such dutives as infinitives, simply because we have not met with other cases of drisis.

DATIVES IN TAUX.

What applies to datives of nouns in i, applies with still greater force to datives of nouns in it. There is no reason why in IX. 96, 4 we should call a hataye, to be without hart, an infinitive, simply because no other case of a hati-s occurs in the Rig-Veda; while agitaye, not to fall, in the same line, is called a dative of agiti-s, because it occurs again in the necessarive agiti-m.

DATIVES IN TYAL.

In ityai, to go, L 113, 6; 124, 1, we have a dative of iti-s, the act of going, of which the instrumental itya occurs likewise, I, 167, 5. This tya, shortened to tya, became afterwards the regular termination of the gernal of compound varies in tya (Grammar § 446), while ya (§ 445) points to an original ya or ya i.

DATIVES IN ASSE.

Next follow datives from bases in as, parily with accent on the first syllable, like neuter nouns in as, parily with the accent on as; parily with Gana, parily without. With regard to them it becomes still clearer how impossible it would be to distinguish between datives of abstract nouns, and other grammatical forms, to be called infinitives. Thus Rv. I. 7, 3 we read dirght a kakshase. Indra made the sun rise for long glancing, i. s., that it night glance for and wide. It is quite true that no other cases of kakshas, seeing, occur, on which ground modern grammarians would probably class it as an infinitive; but the qualifying dative dirghtyn, clearly shows that the poet felt kakshase as the dative of a man, and did not trouble himself, whether that noun was defective in other cases or not.

These datives of verbal nones in as, correspond exactly to Latin infinitives in erg. like sierre (givase), and explain likewise infinitives in dre, erg, and be, forms which cannot be separated. It has been thought that the nearest approach to an infinitive is to be found in such forms as givase, bhiyase, to four (V. 29, 4), because in such cases the ordinary nominal form would be bhayase. There is, however, the instrumental bhiyasa, X. 108, 2.

DATITED IN MANE.

Next follow datives from nouns in man, van, and an. The sumx man is very common in Sanskrit, for forming verbal nouns, such as kar-man, doing, deed, from kar. Van is almost restricted to forming noming agentic, such as dru h-van, hating; hus we find also substantives like pat-van, still used in the sense of flying. An also is generally used like van, but we can see traces of its employment to form namina actionis in Greek hydr, Lat. rurbo, etc.

Datives of nouns in man, used with infinitival functions, are very common in the Voda; r. g. I. 164, 6, priblismi vidmane, I ask to know; VIII. 25, 8, damane krit41, made to give. We find also the instrumental case vid mana, c. g., VI. 14, 5, vidmana urushyati, he protects by his knowledge. These correspond to Homeric infinitives, like Bacent, Sourmi, etc., old datives and not locatives, as Schleicher und Curtius supposed; while forms like Mars are to be explained either as abbreviated, or as obsofere accumatives.

DATIVES IN PANE.

Of datives in vane I only know davane, a most valuable grammatical relic, by which Professor Benfey was enabled to explain the Greek Socrat, i. e., Soferant

DATIVES IN ANE.

Of datives in an a I pointed out (l. c.) dhûrv-an e and wibhv-ane, VI, 61, 13, taking the latter as synonymous with wibhve, and translating, Surasvatl, the great, made to conquer, like a chariot. Professor Roth, s. v. v i b h v a n, takes the dative for an instrumental, and translates " made by an artifleer." It is, however, not the charlot that is spoken of, but Sarasvati, and of her it could hardly be said that she was made either by or for an artificer.

LOCATIVES IN EAST.

As we saw before that noristic bases in a take the datival s, so that we had prak-she by the side of prake, we shall have to consider here acristic bases in s, taking the suffix an, not however with the termination of the dutive, but with that of the locative i. Thus we read X. 129, 3, navishold u mak neshdur

1 See M. M.'s Translation of the Rig-Veda, I. p. 34.

parshishchāt u mat parshāti āti dvishat, they who are the best leaders to lead us, the best helpers to help us to overcome our enemies, lit. in leading us, in helping us. In VIII. 12, 19, grintshāni, i. e. grintshāni stands parallel with turvāne, thus showing how both cases can answer nearly the same purpose. If these forms existed in Greek, they would, after consonantal bases, be identical with the infinitives of the future.

CASES OF VERBAL NOUSE IN TO.

We next come to a large number of datives, ablatives, or genitives, and accusatives of verbal nouns in the. This the occurs in Sanskrit in abstract nouns such as gitti, going, way, etc., in Latin in adventue, etc. As these forms have been often treated, and as some of them occur frequently in later Sanskrit also, it will suffice to give one example of each:—

Dative in tave: gantave, to go, I. 46, 7. Old form in al: gantavai, X. 55, 14. Genitive in to h: dato h, governed by i.e., VII. 4, 6. Ablative in to h: ganto h, I. 89, 2.

Accusative in tum: gintum. This is the supine in tum in Latin.

CASES OF VERBAL NOUNS IN FFA.

Next follow cases of verbal nouns in tvs, the accent being on the suffix.

Datives in tv fiya: hatv fiya, X. 84, 2. Instrumentals in tv fi: hatv fi, I, 100, 18. Older form in tv fi: hatv f, II, 17, 6; gatv f, IV, 41, 5.

DATIVES IN BHAI AND BRITAL

I have left to the end datives in dhai and dhyai, which properly belong to the datives in ai, treated before, but differ from them as being datives of compound nouns. As from mayas, delight, we have mayaskara, delight-making, mayobhu, delight-causing, and constructions like mayo dadhe, so from wayas, life, vigor, we have vayaskrit, life-giving, and constructions like vayo dhat. From dha we can frame two substantival frame, dha and dhi-s, a g-pure-dha, and pure-dhis, like vidhi-s. As an ordinary substantive, pure dha takes the feminine termination d, and is declined like siva. But if the verbal base remains at the

and of a compound without the feminine suffix, a compound like vayodh a would form its dative vayodh a (Grammar, § 239); and as in analogous cases we found old datives in a i, instead of c, c, g, paradai, nothing can be said against vayodh a, as a Vode dative of vayodh a. The dative of paradh i would be puredh a ye, but here again, as, besides forms like drisaye, we met with datives, such as ityai, rehishyai, there is no difficulty in admitting an analogous dative of puredh i.

viza purad hwai.

The old dative dhai has been preserved to as in one form only, which for that reason is all the more valuable and important, offering the key to the mysterious Greek infinitives in em, I mean vayodhai, which occurs twice in the Rig-Veda, X. 55, 1, and X. 67, 14. The importance of this relie would have been perceived long ago, if there had not been some uncertainty as to whether such a form really existed in the Veda. By some accident or other, Professor Aufrecht had printed in both passages vayodhaih, instead of vayodhai. But for this, no one, I believe, would have sloubted that in this form vayodhai we have not only the most valuable prototype of the Greek infinitives in (v) for, but at the same time their full explanation. Vayodhai stands for vayas-dhai, in which composition the first part vayas is a neuter base in as, the second a dative of the auxiliary verb dha, used as a substantive. If, therefore, we find corresponding to vayed had a Greek infinitive Bloods, we must divide it into glee our, as we divide decleres into decler for, and translate it literally by " to do lying."

It has been common to identify Grock infinitives in sea with corresponding Sanskrit forms ending in dhyai. No doubt these forms in dhyai are much more frequent than forms in dhai, but as we can only take them as old datives of substantives in dhi, it would be difficult to identify the two. The Sanskrit dhy appears, no doubt, in Greek, as so, dh being represented by the surd \$\theta\$, and then assibilated by \$y\$; but we could hardly attempt to explain $s\hat{\sigma} = \theta y$, because $s\hat{\sigma} = \xi = \delta y$. Therefore, unless we are prepared to see with Bopp in the s before \$\theta\$, in this and similar forms, a reunant of the reflexive pronoun, nothing remains but to accept the explanation offered by the Vodic vayo dhai, and to separate \$\phi \cdot \text{subspace} \text{this grammatical compound, if once

found successful, should have been repeated in other tensor, giving us not only properties, but profession, profession, and even puse 6 ozo-da, is no more than what we may see again and again in the grammatical development of uncleat and modern languages. in Some scholars have objected on the same ground to Hopp's explanation of com-mini, as the non. plor, of a participle, because they think it impossible to look upon amemini, amabâmini, amaremini, amatimini as participial formations. But if a mould is once made in language, it is used again and again, and little account is taken of its original intention. If we object to poble-tin, why not to schee-el-post, or retel-post, or myslymm? In Sanskrit, too, we should besitate to form a compound of a modified verbal base, such as prisa, with dhi, doing; yet as the Sanskrit car was accustomed to yagad hyai from yaga, gamadleyai from gama, it did not protest against prinadhyai, vavridhadhyai, etc.

HISTORICAL IMPORTANCE OF THESE GRAMMATICAL FORMS.

And while those ancient grammatical forms which supply the foundation of what in Greek, Latin, and other languages we are accustomed to call infinitives are of the highest interest to the grammarian and the logician, their importance is hardly less in the eyes of the historian. Every honest student of antiquity, whether his special field be India, Persia, Assyria, or Egypt, knows how often he is filled with fear and trembling when he meets with thoughts and expressions which, as he is upt to say, cannot be uncient. I have frequently confessed to that feeling with regard to some of the hymns of the Rig-Veda, and I well remember the time when I felt inclined to throw up the whole work as modern and unworthy of the time and labor bestowed upon it. At that time I was always comforted by these so-called. infinitives and other relies of ancient language. They could not have been fabricated in India. They are unknown in ordinary. Sanskrit, they are unintelligible as far as their origin is concorned in Greek and Latin, and yet in the Vedie language wa find these forms, not only identical with Greek and Latin forms, but furnishing the key to their formation in Grocce and Italy. The Vedic vayas-dhal compared with Greek slee-ta, the Vedic starshe compared with Alear are to my mind evidence in emport of the antiquity and genuineness of the Veda that cannot be shaken by any arguments.

THE INVESTIVE IN EXCLUSION.

I add a few words on the infinitive in English, though it has been well treated by Dr. March in his " Grammar of the Anglo-Saxon Language," by Dr. Morris, and others. We find in Angle-Saxon two forms, one generally called the infinitive, nim-an, to take, the other the gerund, to nim-anne, to take. Dr. March explains the first as identical with Greek seg-ses and segerat, i. e., as an oblique case, probably the dative, of a verbal noun in on. He himself quotes only the dative of nominal bases in a, e. g. namanaya, because he was probably unacquainted with the nearer forms in on-s supplied by the Veda. This infinitive exists in Gothic as min-an, in Old Saxon as om-an, in Old Norse as new-e, in Old High German as nem-an. The so-called guruml, to nimunne, is rightly traced back by Dr. March to Old Saxon nim-annia, but he can hardly be right in identifying those old datival forms with the Sanskrit base nam-aniya. In the Second Period of English (1100-1250)1 the termination of the infinitive became on, and frequently dropped the final a, as smelle = smellen; while the termination of the gerund at the same time became enne, (ende), ene, en, or c, so that outwardly the two forms appear to be identical, as early as the 12th century. Still later, towards the end of the 14th century, the terminations were entirely lost, though Spenser and Shakespeare have occasionally to killen, passen, delven, when they wished to impart an archaic character to their language. In modern English the infinitive with to is used as a verbal substantive. When we say, "I wish you to do this," " you are able to do this," wa can still perceive the datival function of the infinitive. Likewise in such phrasus, " it is time," " it is proper," " it is wrong to do that," to do may still be felt as an oblique case. But we have only to invert these scatences, and say, "to do this is wrong," and we have a new substantive in the nom, sing., just as in the Greek to Aryen. Expressions like for to do, show that the simple to was not always felt to be sufficiently expressive to convey the meaning of an original dative.

WORKS ON THE INFINITIVE

The infinitive has formed the subject of many learned treatises. I divide them into two classes, those which appeared be-

4 Morris, l. c. p. 177.

¹ Morris, Midwie Outlines of English Accidence, p. 52.

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fore and after Wilhelm's excellent essay, written in Latin, "De Infinitivi Vi et Natura," 1868; and in a new and improved edition, "De Infinitivo Linguarum Sanscritar, Bactricae, Persicae, Graces, Oscar, Umbricas, Latinas, Gotiere, forma et man," Isenaci, 1873. In this easily the evidence supplied by the Veda was for the first time fully collected, and the whole question of the nature of the infinitive placed in its true historical light. Before Wilhelm the more important works were Hofer's book, " Vom Infinitiv, besonders im Sanskrit," Berlin, 1840; Bopp's paragraphs in his "Comparative Grammar;" Hamboldt's paper, in Schlegel's " Indische Bibliothek " (IL 74), 1894; and his posthumous paper in Kuhn's " Zeitschrift" (IL 215), 1853; some dissertations by L. Meyer, Merguet, and Golenski. Benfey's " Sanskrit Grammar " (1853), too, ought to be mentlened, as having laid the first solid foundations for this and all other branches of grammatical research, as far as Sanskrit is concerned. After Wilhelm the same subject has been treated with great independence by Ludwig, "Der Infinitif im Veda," 1871, and again "Agglutination oder Adaptation," 1873; and also by Jolly, "Geschichte des Infinitivs," 1873.

I had myself discussed some questions connected with the nature of the infinitive in my "Lectures on the Science of Language," vol. ii. p. 15 seq., and I had pointed out in Kohn's "Zeltschrift," XV. 215 (1866) the great importance of the Vedic vayodhal for unraveling the formation of Greek in-

finitives in o day

THE INPERITIVE IN BENGALL.

At a still earlier time, in 1847, in my "Essay on Bengali," I said: "As the infinitives of the Indo-Germanic languages must be regarded as the absolute cases of a verbal noun, it is probable that in Bengali the infinitive in its was also originally a locative, which expressed not only local situation, but also movement towards some object, as an end, whether real or imaginary. Thus the Bengali infinitive corresponds exactly with the English, where the relation of case is expressed by the preposition to. Ex. thinks marite and advachl, means, I came to the state of beating him, or, I came to beat him; amake marite dee, give me (permission), let me (go) to the action of beating, i. c., allow me to beat. New as the form of the participle is the same as that of the infinitive, it may be doubted if there is really a dis-

tinction between these two forms as to their origin. For instance, the phrase span patrake marite and tabaka delchillam, can be translated. I saw him beating his own son; but it can be explained also as, what they nonsensically call in Latin grammar accessations can infinitive, that is to say, the infinitive can be taken for a locative of the verbal noun, and the whole phrase be translated, I saw him in the action of beating his own son, (will patron codere innus filium). As in every Benguli phrase the participle in its can be understood in this manner, I think it admissible to ascribe this origin to it, and instead of taking it for a nominative of a verbal adjective, to consider it as a locative of a verbal noun."

THE INVINITIES IN THE DRAVIDIAN LANGUAGES.

I also tried to show that the infinitive in the Dravidian languages is a verbal noun with or without a case suffix. This view has been confirmed by Dr. Caldwell, but, in deference to him, I gladly withdraw the explanation which I proposed in reference to the infinitive in Tamil. I quote from Dr. Caldwell's " Comparative Grammar of the Dravidine Languages," 34 ed. p. 423: "Professor Max Miller, noticing that the analogity of Tamil infinitives terminate in La, supposed this La to be identical in origin with \$6, the dative-accusative case-sign of the Himil, and concluded that the Dravidian infinitive was the accusative of a verbal noun. It is true that the Sanskrit infinitive and Latin supine in him is correctly regarded as an accusative, and that our English infinitive to do, is the dative of a verbal mount it is also true that the Dravidian infinitive is a verbal noun in seigin, and never altogether loses that character; nevertheless, the supposition that the final he of most Tamil infinitives is in. any manner connected with Eu, the sign of the Dravidian dative, or of M, the Hindi dative-accusative, is inadmissible. A comparison of various classes of verbs and of the various dialects shows that the ba in question proceeds from a totally different source."

OR LABIALIZED AND UNLABIALIZED GUYFURALS.

As is my article on Vayodicai, published in Knhn's "Zeltschrift," 1886, p. 215, I had entered a case against identifying Grock 5 with Sanskrit of, I take this opportunity of frankly withdrawing it. Phonetically, no doubt, these two letters rap-

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resent totally distinct powers, and to say that Sanskrit of ever became Greek s is as irrational to-day as it was ten years ago. But historically I was entirely wrong, as will be seen from the last califion of Curtius' "Grandzüge." The guttural smann check was palatalized in the Southeastern Branch, and there became g and z, while in the Northwestern Branch the same g was frequently labialized and became gr, v, and b. Hence, where we have of in Sanskrit, we may and do find s in Greek.

But after withdrawing my former coneat, I make bold to propose another, namely, that the original palatal somet flatus, which in Sanskrit is graphically represented by g, can never be represented in Greek by g. Whether g in Sanskrit represents an original palatal somet check or an original palatal somet datas can generally be determined by a reference to Zend, which represents the former by g, the latter by x. We may therefore formulate this phonetic law:—

"When Sanskrit g is represented by Zend z, it cannot be represented by Greek 2."

In this manner it is possible, I believe, to utilize Ascoil's and Fick's brilliant discovery as to a twofold, or even threefold, distinction of the Aryan k, as applied to the Aryan g. They have proved that all Aryan languages show traces of an original distinction between a guttural surd check, k, frequently palatalized in the Southeastern Branch (Sk. 1, Zend 1) and flable to labilitation, in Latin, Greek, Cymric, and Gothic; and another k, never liable to labilitation, but changed into a flatna, palatal or otherwise, in Sanskrit, Lithuanian, and Old Slavenic. They showed, in fact, —

Samkrit, Lith, Siar, Gath, & Cym. Lat. Greek. Gothic. \overline{A} (\overline{A}) = k = k, \overline{b} , $\overline{b} = c - p = c$, $qu, v = s, sF, se, v, sv, v, re, hv, h. <math>\overline{A}$ = u = c = c = b

In the same manner we ought in future to distinguish between a guttural sonant check, g, frequently palatalized in the Southeastern Branch (Sk. g, Zend g), and liable to labialization, like k; and another g, never liable to labialization, but changed into a flatus, palatal or otherwise, in Zend, Lithuanian, and Ohl Slavonic. As we never have $x = \overline{y}$, we never have $\beta = \overline{x}$, if \overline{y} in Zend is z.

The evidence will be found under Sk. gan, gabh, gar (to

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decay, and to praise), gush, ghā, ghu, ghmātar; ag,

bhrag, marg, yag, rag (atam).

Gothic quind, Gadh. ben, Benot. Birs depend on Zend geni; Gadh. baith-is on Zend gaf-ra. It is wrong to connect offer with gas, on account of Zend ras, and gyf-ni with \$60, on account of Zend rys-ni.

REDE LECTURE,

DELIVERED IN THE SENATE HOUSE REPORT THE UNIVERSITY OF CAMBRIDGE, ON FRIDAY, MAY 29, 1868.

PART L

ON THE STRATIFICATION OF LANGUAGE.

THERE are few sensations more pleasant than that of wondering. We have all experienced it in childhood, in youth, and in our manhood, and we may hope that even in our-old age this affection of the mind will not entirely pass away. If we analyze this feeling of wonder carefully, we shall find that it consists of two elements. What we mean by wondering is not only that we are startled or stunned, - that I should call the merely passive element of wonder. When we say "I wonder," we confess that we are taken aback, but there is a secret satisfaction mixed up with our feeling of surprise, a kind of hope, nav, almost of certainty, that sooner or later the wonder will cease, that our senses or our mind will recover. will grapple with these novel impressions or experiences, grasp them, it may be, throw them, and finally triumph over them. In fact we wonder at the riddles

³ This Lecture has been translated by M. Louis Hayet, and forms the first facciculus of the Bibliothèque de l'Écola des Hautes Études, publics sous les ampices du Ministère de l'Instruction Publique—Paris, 1869.

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of nature, whether animate or inanimate, with a firm conviction that there is a solution to them all, even though we ourselves may not be able to find it.

Wonder, no doubt, arises from ignorance, but from a peculiar kind of ignorance; from what might be called a fertile ignorance; an ignorance which, if we look back at the history of most of our sciences, will be found to have been the mother of all human knowledge. For thousands of years men have looked at the earth with its stratifications, in some places so clearly mapped out; for thousands of years they must have seen in their quarries and mines, as well as we ourselves, the imbedded petrifications of organic creatures; yet they looked and passed on without thinking more about it—they did not wonder. Not even an Aristotle had eyes to see; and the conception of a science of the earth, of Geology, was reserved for the eighteenth century.

Still more extraordinary is the listlessness with which during all the centuries that have clapsed since the first names were given to all cattle, and to the fowl of the air, and to every beast of the field, men have passed by what was much nearer to them than even the gravel on which they trod, namely, the words of their own language. Here, too, the clearly marked lines of different strats seemed almost to challenge attention, and the pulses of former life were still throbbing in the petrified forms imbedded in grammars and dictionaries. Yet not even a Plato had eyes to see, or ears to hear, and the conception of a science of language, of Glottology, was reserved for the nine-teenth century.

I am far from saying that Plato and Aristotle knew nothing of the nature, the origin, and the purpose of language, or that we have nothing to learn from their works. They, and their successors, and their predecessors too, beginning with Hurakleites and Demokritos, were startled and almost fascinated by the mysteries of human speech as much as by the mysteries of human thought; and what we call grammar and the laws of language, nay, all the technical terms which are still current in our schools, such as now and verb, case and number, infinitive and participle, all this was first discovered and named by the philosophers and grammarians of Greece, to whom, in spite of all our new discoveries. I believe we are still beholden, whether consciously or unconsciously, for more than half of our intellectual life.

But the interest which those ancient Greek philosophers took in language was purely philosophical. It was the form, far more than the matter of speech which seemed to them a subject worthy of philosophical speculation. The idea that there was, even in their days, an immense mass of accumulated speech to be sifted, to be analyzed, and to be accounted for somehow, before any theories on the nature of language could be safely started, hardly ever entered their minds; or when it did, as we see here and there in Plato's "Kratyles," it soon vanished, without leaving any permanent impression. Each people and each generation has its own problems to solve. The problem that occupied Plato in his "Kratylos" was, if I understand him rightly, the possibility of a perfect language, a correct, true, or ideal language, a language founded on his own philosophy, his own system of types or ideas. He was too wise a man to attempt, like Bishop Wilkins, the actual construction of a philosophical language. But, like Leibniz, he just vot. IV.

lets us see that a perfect language is conceivable, and that the chief reason of the imperfections of real language must be found in the fact that its original framers were ignorant of the true nature of things, ignorant of dialectic philosophy, and therefore incapable of naming rightly what they had failed to apprehend correctly. Plato's view of actual language, as far as it can be made out from the critical and negative rather than didactic and positive dialogue of "Kratylos," seems to have been very much the same as his view of actual government. Both fall short of the ideal, and both are to be tolerated only in so far as they participate in the perfections of an ideal state and an ideal language.1 Plato's "Kratylos" is full of suggestive wisdom. It is one of those books which, as we read them again from time to time, seem every time like new books: so little do we perceive at first all that is pre-supposed in them, - the accumulated mould of thought, if I may say so, in which alone a philosophy like that of Plato could strike its roots and draw its support.

But while Plato shows a deeper insight into the mysteries of language than almost any philosopher that has come after him, he has no eyes for that marvelous harvest of words garnered up in our dictionaries, and in the dictionaries of all the races of the earth. With him language is almost synonymous with Greek, and though in one passage of the "Kratylos" he suggests that certain Greek words might have been borrowed from the Barbarians, and, more particularly from the Phrygians, yet that remark, as coming from Plato, seems to be purely ironical, and though it contains, as we know, a germ of truth that

¹ See Benfey, Usber die Aufgode sies Krotylin, Göttingun, 1868.

has proved most fruitful in our modern science of language, it struck no roots in the minds of Greek philosophers. How much our new science of language differs from the linguistic studies of the Greeks; how entirely the interest which Plato took in language is now supplanted by new interests, is strikingly brought home to us when we see how the Societé de Linguistique, lately founded at Paris, and including the names of the most distinguished scholars of France, declares in one of its first statutes that "it will receive no communication concerning the origin of language or the formation of a universal language," the very subjects which, in the time of Herakleitos and Plato, rendered linguistic studies worthy of the consideration of a philosopher.

It may be that the world was too young in the days of Plato, and that the means of communication were wanting to enable the ancient philosopher to see very far beyond the narrow horizon of Greece. With us it is different. The world has grown older, and has left to us in the annuls of its various literatures the monuments of growing and decaying speech. The world has grown larger, and we have before us, not only the relies of ancient civilization in Asia, Africa, and America, but living languages in such number and variety that we draw back almost aghast at the mere list of their names. The world lms grown wiser too, and where Plato could only see imperfections, the failures of the founders of human speech, we see, as everywhere else in human life, a natural progress from the imperfect towards the perfect, unceasing attempts at realizing the ideal, and the frequent triumphs of the human mind over the inevitable difficulties of this earthly condition, - difficulties, not of man's own making, but, as I firmly believe, prepared for him, and not without a purpose, as toils and tasks, by a higher Power and by the

highest Wisdom.

Let us look then abroad and behold the materials which the student of language has now to face. Beginning with the language of the Western Isles, we have at the present day, at least 100,000 words, arranged as on the shelves of a Museum, in the pages of Johnson and Webster. But these 100,000 words represent only the best grains that have remained in the sieve, while clouds of chaff have been winnowed off, and while many a valuable grain too has been lost by mere carelessness. If we counted the wealth of English dialects, and if we added the treasures of the ancient language from Alfred to Wyeliffe, we should easily double the herburium of the linguistic flora of England. And what are these Western Isles as compared to Europe; and what is Europe, a mere promontory, as compared to the vast continent of Asia; and what again is Asia, as compared to the whole inhabitable world? But there is no corner of that world that is not full of language: the very desert and the isles of the sea teem with dialects, and the more we recede from the centres of civilization. the larger the number of independent languages, springing up in every valley, and overshadowing the smallest island.

> "Ίδαν ές παλύδενδρον άπης Ελανόμος ένθών Πιεπταίνει, παρέαντος άδην, πύθεν ἄρξεται ζηγαι."

We are bewildered by the variety of plants, of birds, and fishes, and insects, scattered with lavish prodigality over land and sea; — but what is the liv-

¹ Theolation, avii. 9,

ing wealth of that Fauna as compared to the winged words which fill the air with unceasing music! What are the scanty relies of fosail plants and animals, compared to the storehouse of what we call the dead languages! How then can we explain it that for centuries and centuries, while collecting beasts, and birds, and fishes, and insects, while studying their forms, from the largest down to the smallest and almost invisible creatures, man has passed by this forms of speech, without seeing the forest, as we say in German, for the very number of its trees (Man sah den Wald vor lauter Bäumen nicht), without once asking how this vast currency could have been coined, what inexhaustible mines could have supplied the metal, what cunning hands could have devised the image and superscription, - without once wondering at the countless treasure inherited by him from the fathers of the human race?

Let us now turn our attention in a different direction. After it had been discovered that there was this great mass of material to be collected, to be classified, to be explained, what has the Science of Language, as yet, really accomplished? It has achieved much, considering that real work only began about fifty years ago; it has achieved little, if we look at what still remains to be done.

The first discovery was that languages admit of classification. Now this was a very great discovery, and it at once changed and raised the whole character of linguistic studies. Languages might have been, for all we know, the result of individual fancy or poetry; words might have been created here and there at random, or been fixed by a convention, more or less arbitrary. In that case a scientific classification would

have been as impossible as it is if applied to the changing fashions of the day. Nothing can be classified, nothing can be scientifically ruled and ordered, except what has grown up in natural order and according to rational rule.

Out of the great mass of speech that is now accessible to the student of language, a number of so-called families have been separated, such as the Aryan, the Semitic, the Ural-Altaic, the Indo-Chinese, the Dravidian, the Malayo-Polynesian, the Kafir or Bâ-ntu in Africa, and the Polysynthetic dialects of America. The only classes, however, which have been carefully examined, and which alone have hitherto supplied the materials for what we might call the Philosophy of Language, are the Aryan and the Semitic, the former comprising the languages of India, Persia, Armenia, Greece and Italy, and of the Celtic, Teutonic, and Slavonic races; the latter consisting of the languages of the Babylonians, the Syrians, the Jews, the Ethiopians, the Araba.

These two classes include, no doubt, the most important languages of the world, if we measure the importance of languages by the amount of influence exercised on the political and literary history of the world by those who speak them. But considered by themselves, and placed in their proper place in the vast realm of human speech, they describe but a very small segment of the entire circle. The completeness of the evidence which they place before us in the long series of their literary treasures, points them out in an eminent degree as the most useful subjects on which to study the anatomy of speech, and nearly all the discoveries that have been made as to the laws of language, the process of composition, derivation, and

inflexion, have been gained by Aryun and Semitic scholars.

Far be it from me, therefore, to underrate the value of Aryan and Semitic scholarship for a successful prosecution of the Science of Language. But while doing full justice to the method adopted by Semitic and Aryan scholars in the discovery of the laws that regulate the growth and decay of language, we must not shut our eyes to the fact that our field of observation has been thus far extremely limited, and that we should act in defiance of the simplest rules of sound induction, were we to generalize on such scanty evidence. Let us but clearly see what place these two so-called families, the Aryan and Semitic, occupy in the great kingdom of speech. They are in reality but two centres, two small settlements of speech, and all we know of them is their period of decay, not their period of growth, their descending, not their ascending enreer, their Being. as we say in German, not their Becoming (The Gewordensein, nicht ihr Werden). Even in the earliest literary documents both the Aryan and Semitic speech appear before us as fixed and petrified. They had left forever that stage during which language grows and expands, before it is arrested in its exuberant fertility by means of religious or political concentration, by means of oral tradition, or finally by means of a written literature. In the natural history of speech, writing, or, what in early times takes the place of writing, oral tradition, is something merely accidental. It represents a foreign influence which, in natural history, can only be compared to the influence exercised by domestication on plants and animals. Language would be language still, nay,

would be more truly language, if the idea of a literature, whether oral or written, had never entered men's minds; and however important the effects produced by this artificial domestication of language may be, it is clear that our ideas of what language is in a natural state, and therefore what Sanskrit and Hebrew, too, must have been before they were tamed and fixed by literary cultivation, ought not to be formed from an exclusive study of Arvan and Semitic speech. I maintain that all that we call Aryan and Semitic speech, wonderful as its literary representatives may be, consists of neither more or less than so many varieties which all owe their origin to only two historical concentrations of wild unbounded speech; nay, however perfect, however powerful, however glorious in the history of the world, - in the eyes of the student of language, Sanskrit, Greek, and Latin, Hebrew, Arabic, and Syrinc, are what a student of natural history would not hesitate to call "monstra," unnatural, exceptional formations which can never disclose to us the real character of language left to itself to follow out its own laws without let or hindrance.

For that purpose a study of Chinese and the Turanian dialects, a study even of the jargons of the savages of Africa, Polynesia, and Melanesia is far more instructive than the most minute analysis of Sanskrit and Hebrew. The impression which a study of Greek and Latin and Sanskrit leaves on our minds is, that language is a work of art, most complicated, most wonderful, most perfect. We have given so many names to its outward features, its genders and cases, its tenses and moods, its participles, gerunds, and supines, that at last we are frightened at our own devices. Who can read through all the so-called

irregular verbs, or look at the thousands and thousands of words in a Greek Dictionary without feeling that he moves about in a perfect labyrinth? How then, we ask, was this labyrinth erected? How did all this come to be? We conselves, speaking the language which we speak, move about, as it were, in the innermost chambers, in the darkest recesses of that primeval palace, but we cannot tell by what steps and through what passages we arrived there, and we look in vain for the thread of Ariadne which in leading us out of the enchanted castle of our language, would disclose to us the way by which we ourselves, or our fathers and forefathers before us, entered into it.

The question how language came to be what it is has been asked again and again. Even a school-boy. if he possesses but a grain of the gift of wondering must ask himself why mensa means one table, and mensa many tables; why I love should be amo, I am loved amor. I shall love amabo, I have loved amori, I should have loved amarissem. Until very lately two answers only could have been given to such questions. Both sound to us almost absurd, yet in their time they were supported by the highest authorities. Either, it was said, language, and particularly the grammatical framework of language was made by convention, by agreeing to call one table mensa, and many tables measer; or, and this was Schlegel's view, language was declared to possess an organic life, and its terminations, prefixes, and suffixes were supposed to have sprouted forth from the radicals and stems and branches of language, like so many buds and flowers. To us it seems almost incredible that such theories should have been seriously maintained, and maintained by men of learning and genius. But what better answer could they have given? What better answer has been given even now? We have learnt something, chiefly from a study of the modern dialects, which often repeat the processes of ancient speech, and thus betray the secrets of the family. We have learnt that in some of the dialects of modern Sanskrit, in Bengali for instance, the plural is formed, as it is in Chinese, Mongolian, Turkish, Finnish, Burmese, and Siamese, also in the Dravidian and Malayo-Polynesian dialects, by adding a word

In my many On the Relation of Bengali to the dryan and Aboriginal Languages of India, published in 1818, I tried to explain these plural suffixes, such as dig, gama, gatt, varge, dala. I had translated the last word by hand, supposing from Wilson's Dictionary, and from the Sabda-kalpa-druma that dala could be used in the sense of band or multitude. I doubt, however, whether dad a le ever until in Sanstitle in that somer, and I feel certain that it was not used in that sense with sufficient frequency to account for its adoption in Bengall. Dr. Friedrich Muller, in his useful abstracts of some of the grammars discovered by the Newtra in her journey round the earth (1857-59), him likewise referred dad to the Sanshrit dala, but be renders what I had in Euglish rendered by sond, by the German word Rand. This can only be an accident. I must bend in the sense of a band of robbers, which in German would be Handy. He seems to have misunderstood me, and to have taken bond for the German Bond, which means a ribbon. Might dala in Bengali be the Dravidian tala or dalu, a host, a crowd, which Dr. Caldwell (p. 197) mentions as a possible etymon of the pluralizing mulix in the Dravidian languages? Bengeli certainly took the lites of forming its plurals by composition with words expressive of plurality from its Desvidian asighbor, and it is not impossible that in some cases it might have transferred the very word dafa, crowd. This dafa and tafa appears in Tamil so kele and gale, and as Samkrit & may in Sinhaless be represented by e (loka - him), I thought that the plural termination used in Sinkelese after luminuate means might possibly be a corruption of the Tamil bels. Mr. Children, however, in his able "Essay on the formation of the Plural of Neuter Nouns in Sinhaloss " (J. R. A. S., 1874, p. 40), thinks that the Sinhalose sals is a cocruption of the Sanskrit ve na, forcet, an opinion which soums Ikwwim to he hald by Mr. D'Alwis (I. c. p. 48). As a case in point, in support of my own opinion, Mr. Childers mentioned to me the Sinhalem stalcore, Sanskrit mala-hara, a wreath-maker, a gurdener. In Persian both an and Ad are remnants of datayed plural terminations, not collecfive wonts added to the bass.

expressive of plurality, and then appending again the terminations of the singular. We have learnt from French how a future, je parlerai, can be formed by an auxiliary verb: "I to speak have" coming to mean, I shall speak. We have learnt from our own language, whether English or German, that suffixes, such as head in godhead, ship in ladyship, dom in kingdom, were originally substantives, having the meaning of quality, shape, and state. But I doubt whether even thus we should have arrived at a thorough understanding of the real antecedents of language, unless, what happened in the study of the stratification of the earth, had happened in the study of language. If the formation of the crust of the earth had been throughout regular and uniform, and if none of the lower strata had been tilted up, so that even those who run might read, no shaft from the surface could have been sunk deep enough to bring the geologist from the tertiary strata down to the Silurian rocks. The same in language. Unless some languages had been arrested in their growth during their earlier stages, and had remained on the surface in this primitive state exposed only to the decomposing influence of atmospheric action, and to the illtreatment of literary cultivation, I doubt whether any scholar would have had the courage to say that at one time Sanskrit was like unto Chinese, and Hebrew no better than Malay. In the successive strata of language thus exposed to our view, we have in fact, as in Geology, the very thread of Ariadne, which, if we will but trust to it, will lead us out of the dark labyrinth of language in which we live, by the same road by which we and those who came before us, first entered into it. The more we retrace our steps, the

more we advance from stratum to stratum, from story to story, the more shall we feel almost dazzled by the daylight that breaks in upon us; the more shall we be struck, no longer by the intricacy of Greek or Sanskrit grammar, but by the marvelous simplicity of the original warp of human speech, as preserved, for instance, in Chinese; by the child-like contrivances, that are at the bottom of Paulo-post Futures and Conditional Moods.

Let no one be frightened at the idea of studying a Chinese grammar. Those who can take an interest in the secret springs of the mind, in the elements of pure reason, in the laws of thought, will find a Chiness grammar most instructive, most fascinating. It is the faithful photograph of man in his leadingstrings, trying the muscles of his mind, groping his way, and so delighted with his first successful grasps that he repeats them again and again. It is child's play, if you like, but it displays, like all child's play, that wisdom and strength which are perfect in the mouth of babes and sucklings. Every shade of thought that finds expression in the highly finished and nicely balanced system of Greek tenses, moods, and particles can be expressed, and has been expressed, in that infant language by words that have neither prefix nor suffix, no terminations to indicate number, case, tense, mood, or person. Every word in Chinese is monosyllabic, and the same word, without any change of form, may be used as a noun, a verb, an adjective, an adverb, or a particle. Thus ta, according to its position in a sentence, may mean great, greatness to grow, very much, very,1

And here a very important observation has been

¹ Stanilas Julien, Exercises Postiques, p. 14.

made by Chinese grammarians, an observation which, after a very slight modification and expansion, contains indeed the secret of the whole growth of language from Chinese to English. If a word in Chinese is used with the bond fide signification of a noun or a verb, it is called a full word (shi-tsé); if it is used as a particle or with a merely determinative or formal character, it is called an empty word (hiu-teé). There is as yet no outward difference between full and empty words in Chinese, and this renders it all the more creditable to the grammarians of China that they should have perceived the inward distinction, oven in the absence of any outward signs.

Let us learn then from Chinese grammarians this great lesson, that words may become empty, and without restricting the meaning of empty words as they do, let us use that term in the most general sense, as expressive of the fact that words may lose

something of their full original meaning.

Let us add to this another observation, which the Chinese could not well have made, but which we shall see confirmed again and again in the history of language, viz.: that empty words, or, as we may also call them, dead words, are most exposed to phonetic decay.

It is clear then that, with these two preliminary

I Endlicher, Chinaische Gremmutik, § 122. Wade, Progressive Course on the Parts of Speech, p. 162. A different division of words alopeed by Chinase grammarians is that into dead and Hee words, ask-fis and elog-day, the former comprising nones, the latter verbs. The same classes are sometimes called teng-tis and he-tis, unmoved and moved words. This shows how purposaless it would be to try to find out whether language began with none or verb. In the surfact phase of speech the same word was both room and verb, according to the use that was made of it, and it is so will to a great extent in Chinese. See Endlicher, Chinesische Gremmatik, § 210.

observations, we can imagine three conditions of lan-

guage: -

process.

1. There may be languages in which all words, both empty and full, retain their independent form, Even words which are used when we should use mere suffixes or terminations, retain their outward integrity in Chinese. Thus, in Chinese, jin means man, tu means crowd, jin-tu, man-crowd. In this compound both jin and tu continue to be felt us independent words, more so than in our own compound man-kind; but nevertheless tu has become empty, it only serves to determine the preceding word jin, man, and tells us the quantity or number in which jin shall be taken. The compound answers in intention to our plural, but in form it is wide apart from men, the plural of man.

2. Empty words may lose their independence, may suffer phonetic decay, and dwindle down to mere suffixes and terminations. Thus in Burmese the plant is formed by to, in Finnish, Mordvinian, and Ostiakian by t. As soon as to ceases to be used as an independent word in the sense of number, it becomes an empty, or if you like, an obsolete word, that has no meaning except as the exponent of plurality; nay, at hust, it may dwindle down to a mere letter, which is then called by grammarians the termination of the plural. In this second stage phonetic decay may well-nigh destroy the whole body of an empty word, but - and this is important - no full words, no radicals are as yet attacked by that disintegrating

3. Phonetic decay may advance, and does advance still further. Full words also may lose their independence, and be attacked by the same disease that

had destroyed the original features of suffixes and prefixes. In this state it is frequently impossible to distinguish any longer between the radical and formative elements of words.

If we wished to represent these three stages of language algebraically, we might represent the first by RR, using R as the symbol of a root which has suffered no phonetic decay; the second, by $R + \rho$, or $\rho + R$, or $\rho + R + \rho$, representing by ρ an empty word that has suffered phonetic change; the third, by $r\rho$, or ρr , or $\rho r\rho$, when both full and empty words have been changed, and have become welded together into one indistinguishable mass through the intense heat of thought, and by the constant hammering of the tongue.

Those who are acquainted with the works of Humboldt will easily recognize, in these three stages or strata, a classification of language first suggested by that eminent philosopher. According to him languages can be classified as isolating, agglutinative,¹ and inflectional, and his definition of these three classes agrees in the main with the description just given of the three strata or stages of language.

But what is curious is that this threefold classification, and the consequences to which it leads, should not at once have been fully reasoned out, nay, that a system most palpably erroneous should have been founded upon it. We find it repeated again and again in most works on Comparative Philology, that Chinese belongs to the isolating class, the Turanian languages to the combinatory, the Aryan and Semitio

¹ Applicative seems an unaccessarily smooth word, and as implying a summitting which gloss two words together, a kind of Bindescool, it is objectionable as a technical term. Combinatory is technically more correct, and less strange than applicationative.

to the inflectional; may, Professor Pott 1 and his school seem convinced that no evolution can ever take place from isolating to combinatory and from combinatory to inflectional speech. We should thus be forced to believe that by some inexplicable grammatical instinct, or by some kind of inherent necessity, languages were from the beginning created as isolating or combinatory, or inflectional, and must remain so to the end.

It is strange that those scholars who hold that no transition is possible from one form of language to another, should not have seen that there is really no language that can be strictly called either isolating, or combinatory, or inflectional, and that the transition from one stage to another is in fact constantly taking

I Professor Pott, in his article entitled." Max Muller und die Kannzelchan der Sprachverwandischaft," published in 1855, in the Journal of the German Oriental Society, vol. ix. p. 413, says, in confutation of Burson's view of a real historical progress of language from the lowest to the highest singer "So cautions an inquirer as W. von Humbaldt declines expressly, in the last chapter of his work on the Discretity of the Structure of Hamun Language (p. 414), any contimions as to a real historical progress from one stage of language to another, or at least does not commit himself to any definite opinion. This is surely something very different from that gradual progress, and it would be a question whether, by admitting such an historical progress from sings to singe, we should not commit an absorbity hardly less palpable than by trying to raise inferences into horses or still farther into mun. [What was an absurdity in 1855 does not store to be so in 1375.] Mr. Bannon, it is true, does not hashed to call the memoryllable idiom of the Chinese an integratio formation. But how can we get from an inorganic to an organic language? In nature such a thing would be impossible. No stone becomes a plant, no plant a true, by however wonderful a metamorphosis, except, in a different sence, by the process of natrition, 6 c., by representation. The farmer question, which Mr. Bussen answers in the affirmative, is disposed of by him with the short diction; The question whether a language can be supposed to be in with infloctions, appears to us simply an absurdity; ' but unfortunately its does not condescend, by a clear illustration, is make that aboundity pulpable. Why, in infectional languages, abould the grammatical form always have milled itself to the matter subsequently and obtening. Why should it not partially from the beginning have been emand with it and in it, as having a meaning with something clas, but not having antacolently a meaning of its own ?"

place under our very noses. Even Chinese is not free from combinatory forms, and the more highly developed among the combinatory languages show the clearest traces of incipient inflection. The difficulty is not to show the transition of one stratum of speech into another, but rather to draw a sharp line between the different strata. The same difficulty was felt in Geology, and led Sir Charles Lyell to invent such pliant names as Eocene, Meiocene, and Plejocene, names which indicate a mere dawn, a minority, or a majority of new formations, but do not draw a fast and hard line, cutting off one stratum from the other. Natural growth, and even merely mechanical accumulation and accretion, here as elsewhere, are so minute and almost imperceptible that they defy all strict scientific terminology, and force upon us the lesson that we must be satisfied with an approximate accuracy. For practical purposes Humboldt's classification of languages may be quite sufficient, and we have no difficulty in classing any given language, according to the prevailing character of its formation, as either isolating, or combinatory, or inflectional. But when we analyze each language more carefully we find there is not one exclusively isolating, or exclusively combinatory, or exclusively inflectional. The power of composition, which is retained unimpaired through every stratum, can at any moment place an inflectional on a level with an isolating and a combinatory language. A compound such as the Sanskrit goduh, cow-milking, differs little, if at all, from the Chinese nicou-jou, vacca lac, or in the putois of Canton, ngau ü, cow-milk, before it takes the terminations of the nominative, which is, of course, impossible in Chinese.

So again in English New-town, in Greek New-polis, would be simply combinatory compounds. Even Newton would still belong to the combinatory stratum; but Naples would have to be classed as belonging to

the inflectional stage.

Finnish, Hungarian, Turkish, and the Dravidian languages belong in the main to the combinatory stratum : but having received a considerable amount of literary cultivation, they all alike exhibit forms which in every sense of the word are inflectional. If in Finnish, for instance, we find kāsi, in the singular, hand, and kadet, in the plural, hands, we see that phonetic corruption has clearly reached the very core of the noun, and given rise to a plural more decidedly inflectional than the Greek xep-es, or the English hand-s. In Tamil, where the suffix of the plural is gal, we have indeed a regular combinatory form in kei-gal, hands; but if the same plural suffix gal is added to kal, stone, the euphonic rules of Tamil require not only a change in the suffix, which becomes kal, but likewise a modification in the body of the word, kal being changed to kar. We thus get the plural karkal which in every sense of the word is an inflectional form. In this plural suffix gal, Dr. Caldwell has recognized the Dravidian tala or dala, a host, a crowd; and though, as he admits himself in the second edition (p. 143), the evidence in support of this etymology may not be entirely satisfactory, the steps by which the learned author of the Grammar of the Dravidian languages has traced the plural termination lu in Telugu back to the same original suffix kal admit of little doubt.

Evidence of a similar kind may easily be found in any grammar, whether of an isolating, combinatory, or inflectional language, wherever there is evidence as to the ascending or descending progress of any particular form of speech. Everywhere amalgamation points back to combination, and combination back to juxtaposition, everywhere isolating speech tends towards terminational forms, and terminational forms become inflectional.

I may best be able to explain the view commonly held with regard to the strata of language by a reference to the strata of the earth. Here, too, where different strata have been tilted up, it might seem at first night as if they were arranged perpendicularly and side by side, none underlying the other, none presupposing the other. But as the geologist, on the strength of more general evidence, has to reverse this perpendicular position, and to re-arrange his strata in their natural order, and as they followed each other horizontally, the student of language too is irresistibly driven to the same conclusion. No language can by any possibility be inflectional without having passed through the combinatory and isolating stratum; no language can by any possibility be combinatory without elinging with its roots to the underlying stratum of isolation. Unless Sanskrit and Greek and Hebrew had passed through the combinatory stratum, nay, unless, at some time or other, they had been no better than Chinese, their present form would be as great a miracle as the existence of chalk (and the strata associated with it) without an underlying stratum of colite (and the strata associated with it ;) or a stratum of colite unsupported by the trias or system of new red sandstone. Bunsen's dictum, that "the question whether a language can begin with inflections, implies an absurdity," may have seemed too

strongly worded: but if he took inflections in the commonly received meaning, in the sense of something that may be added or removed from a base in order to define or to modify its meaning, then surely the simple argument ex nihilo nihil fit is sufficient to prove that the inflections must have been something by themselves, before they became inflections relatively to the base, and that the base too must have existed by itself, before it could be defined and modified by the addition of such inflections.

But we need not depend on purely logical arguments, when we have historical evidence to appeal to, As far as we know the history of language, we see it everywhere confined within those three great strata or zones which we have just described. There are inflectional changes, no doubt, which cannot as yet be explained, such as the sa in the accusative singular of masculine, feminine, and in the nominative and accusative of neuter nouns; or the change of vowels between the Hebrew Piel and Pual, Hiphil and Hophal, where we might feel tempted to admit formativa agencies different from juxtaposition and combination. But if we consider how in Sanskrit the Vedic instrumental plural, asvebhis (Lat. equobus), becomes before our very eyes asvais (Lat. equis), and how such changes as Bruder, brother, and Brüder, brethren, Ich weiss, I know, A. S. wat, and Wir wissen, we know, A. S. wit-on, have been explained as the results of purely mechanical, i. c., combinatory proceedings, we need not despair of further progress in the same direction. One thing is certain, that, wherever inflection has yielded to a rational analysis, it has invariably been recognized as the result of a previous combination, and wherever combination has

been traced back to an earlier stage, that earlier stage has been simple juxtaposition. The primitive blocks of Chinese and the most perplexing agglomerates of Greek can be explained as the result of one continuous formative process, whatever the material elements may be on which it was exercised; nor is it possible even to imagine in the formation of language more than these three strata through which hitherto all human speech has passed.

All we can do is to subdivide each stratum, and thus, for instance, distinguish in the second stratum the suffixing $(R + \rho)$ from the prefixing $(\rho + R)$,

and from the affixing $(\rho + R + \rho)$ languages.

A fourth class, the infixing or incapsulating languages, are but a variety of the affixing class, for what in Bank or in the polysynthetic dialects of America has the appearance of actual insertion of formative elements into the body of a base can be explained more rationally by the former existence of simpler bases to which modifying suffixes or prefixes have once been added, but not so firmly as to exclude the addition of new suffixes at the end of the base, instead of, as with us, at the end of the compound. If we could say in Greek & e.e., instead of & e.e., or in Sanskrit yu-mi-na-g, instead of yu-na-g-mi, we should have a real beginning of so-called incapsulating formations.

A few instances will place the normal progress of language from stratum to stratum more clearly before our eyes. We have seen that in Chinese every word is monosyllabic, every word tells, and there are, as yet, no suffixes by which one word is derived from another, no case-terminations by which the relation

[:] CL D. G. Brinton, The Mathe of the New World, p. 6, note.

of one word to another could be indicated. How, then, does Chinese distinguish between the son of the father, and the father of the son? Simply by position. Fú is father, tzé, son ; therefore fú tzé is son of the father, tae fu, father of the son. This rule admits of no exception but one. If a Chinese wants to say a wine-glass, he puts wine first and glass last, as in English. If he wants to say a glass of wine, he puts glass first and wine last. Thus i-pei theicou, a cup of wine; theieou pei, a wine-cup. If, however, it seems desirable to mark the word which is in the genitive more distinctly, the word tchi may be placed after it, and we may say, fu tchi tzé, the son of the father. In the Mandarin dialect this tchi has become ti, and is added so constantly to the governed word, that, to all intents and purposes, it may be treated as what we call the termination of the genitive. Originally this tchi was a relative, or rather a demonstrative, pronoun, and it continues to be used as such in the uncient Chinese.1

It is perfectly true that Chinese possesses no derivative suffixes; that it cannot derive, for instance, kingly from a noun, such as king, or adjectives like visible and invisible from a verb videre, to see. Yet the same idea which we express by invisible, is expressed without difficulty in Chinese, only in a different way. They say khan-pu-kien, "I-behold-and-do-not-see," and this to them conveys the same idea as the English invisible, though more exactly invisible might be rendered by klen, to see, pou-te, one cannot, tf, which.

² Julien, Exercises Pratiques, p. 120. Endlicher, Chinestiche Grammatik, § 161. Sen, also, Niddales, Orient and Occident, vol. 1. p. 750, Grammar of the Rossa Language (Lindales, 1853), p. 651. "In the Transport in grative is supplied by the relative processes upo, singularly corroborative of the Roy. B. Garnett's theory of the genitive case."

We cannot in Chinese derive from ferrum, iron, a new substantive ferrarius, a man who works in iron, a blacksmith ; ferraria, an iron mine, and again forrariarius, a man who works in an iron mine. All this is possible in an inflectional language only. But it is not to be supposed that in Chinese there is an independent expression for every single conception, even for those which are clearly secondary and derivative. If an arrow in Chinese is shi, then a maker of arrows (in old French flechier, in English fletcher) is called an arrow-man, shi-jin. Shui means water, fu, man; hence shui-fu, a water man, a water carrier. The same word shui, water, if followed by sheu, hand, stands for steersman, literally, water-hand. means gold, triang, maker; hence kin-stiang, a goldsmith. Show means writing, show, hand; hence showshen, a writer, a copyist, literally, a writing-hand.

A transition from such compounds to really combinatory speech is extremely easy. Let sheu, in the sense of hand, become obsolete, and be replaced in the ordinary language by another word for hand; and let such names as shu-sheu, author, shui-sheu, boutsman, be retained, and the people who speak this language will soon accustom themselves to look upon sheu as a mere derivative, and use it by a kind of false analogy, even where the original meaning of sheu, hand, would not have been applicable.²

I Time changes the meaning of words as it does their sound. Thus, many old words are retained in compounds but have lost their original signification. E. g., "See, mouth, has been replaced in collequial mage by their, but it is still employed extensively in compound forms and in derived senses. Thus, Franc' 'Pen, a rapid talker, men 'Pen, door, John 'Pen, custom bouse. So also such, the original word for eye, has given place to 'yen, tang, or 'yen alone. It is, however, employed with other words in derived source. E. g., much left, at present; mak fiel, table of contents.

'The primitive word for head, 'Abre, has been replaced by See, but is

We can watch the same process even in comparatively modern languages. In Anglo-Saxon, for instance, had means state, order. It is used as an independent word, and continued to be so used as late as Spenser, who wrote:—

"Cuddis, I wore than least little good,
So rainly t' advance thy handlesse bood."

After a time, however, had, as an independent word, was lost, and its place taken by more classical expressions, such as habit, nature, or disposition. But there remained such compounds as man-had, the state of man, God-had, the nature of God; and in these words the last element, being an empty word and no longer understood, was soon looked upon as a mere suffix. Having lost its vitality, it was all the more exposed to phonetic decay, and became both hood and head.

Or, let us take another instance. The name given to the fox in ancient German poetry was Regin-hart. Regin in Old High German means thought or cunning, hart, the Gothic hardu, means strong. This hart corresponds to the Greek κρότος, which, in its adjectival form of κρατης, forms as many proper names in Greek as hart in German. In Sanskrit the same word exists as kratu, meaning intellectual rather than bodily strength, a shade of meaning which is still perceivable even in the German hart, and in the English hard and hardy. Reginhart, therefore, was originally a compound, meaning "thought-strong," strong in cunning. Other words formed in the same

winined with various words in combination. E. g., sich 'sleu, robber chief."

Edkins, Grammar of the Chinese Colloquial Language, 24 edition, 1884, p. 100. ² Grimm, Deutsche Grammatik, H. 239.

or a very similar manner are: Peranhart and Bernhart, literally, bear-minded, or bold like a bear; Eburhart, boar-minded; Engil-hart, angel-minded; Gothart, god-minded; Egin-hart, fierce-minded; Hugihart, wise-minded or strong in thought, the English Hogarth. In Low German the second element. hart, jost its h and became ard. This ard ceased to convey any definite meaning, and though in some words which are formed by ard we may still discover its original power, it soon became a mere derivative, and was added promiscuously to form new words. In the Low German name for the fox, Reingert, neither the first nor the second word tells us any longer anything, and the two words together have become a mere proper name. In other words the first portion retains its meaning, but the second, and, is nothing but a suffix. Thus we find the Low German dronk-ard, a drunkard; dick-ard, a thick fellow: rik-ard, a rich fellow; gerard, a miser. In English sweet-ard, originally a very sweet person, has been changed and resuscitated as wweet-heart,1 by the same process which changed shamefast into shamefaced.

Nai, series, sweeing, he mide: that solid I noun. 916

& seids aswithe secting, welcome! 1537

Sertes, exciting, that is seth, selds william thanns. 2799

'Series, seeing, that is soft soils william thanne.' 2199
'treall, seeing, that is soft soils william thane.' 3088

The date of this poom is about A. D. 1300. Shakespears has both forms, viz. r succeiving and succet-heart. Chancer has succe heart, just as we should use sweet-heart."

¹ Cf. the German Liebhart, mignon, in Anahelm, 1, 345. Grimm, Deutsche Grummerik, iii. 707. I feel more doubtful new as in sweetard. Dr. Merris mentions it in his Historical Outlines of English Grammer, p. 210; but Koch, when discussing the same derivations in his English Grammer, does not give the word. Mr. Skunt writes to me: "The form really used in Middle English is sweeting. Three examples are given in Straimann. One of the best is in my edition of William of Palerne, where, however, it occurs not ence only (as given by Straimann), but fine rimes, viz.: in lines 816, 1537, 2739, 3088. The lines are:—

But, still more curious, this suffix ard, which had lost all life and meaning in Low German, was taken over as a convenient derivative by the Romance languages. After having borrowed a number of words such as renard, fox, and proper names like Bernard, Richard, Gerard, the framers of the new Romanes dialects used the same termination even at the end of Latin words. Thus they formed not only many proper names, like Abeillard, Bayard, Brossard, but appellatives like leccardo, a gourmand, linguardo, a talker, criard, a crier, codardo, Prov. coart, Fr. conard, a coward. That a German word hart, meaning strong, and originally strength, should become a Roman suffix may seem strange; yet we no longer heaitate to use even Hindustani words as English suffixes. In Hindustani válá is used to form many substantives. If Dilli is Delhi, then Dill-valla is a man of Delhi. Go is cow, go-válá a cow-herd, contracted into gválá. Innumerable words can thus be formed, and as the derivative seemed handy and useful, it was at last added even to English words, for instance in "Competition wallah."

These may seem isolated cases, but the principles on which they rest pervade the whole structure of language. It is surprising to see how much may be achieved by an application of those principles, how large results may be obtained by the smallest and simplest means. By means of the single radical for y a (originally ya), which in the Aryan languages means to go or to send, the almost unconscious framers of Aryan grammar formed not only their neuter, denominative, and causative verbs, but their passives, their

¹ Diez, Grummatik, il. 258. Grimm, Deutsche Grummatik, 1. p. 540 700.

optatives, their futures, and a considerable number of substantives and adjectives. Every one of these formations, in Sanskrit as well as in Greek, can be explained, and has been explained, as the result of a combination between any given verbal root and the radical i or y a.

There is, for instance, a root nak, expressive of perishing or destruction. We have it in nak, night; Latin nox, Greek vé; meaning originally the waning, the disappearing, the death of day. We have the same root in composition, as, for instance, gî va-nak, life-destroying; and by means of suffixes Greek has formed from it vox-pós, a dead body, véx-vo, dead, and vix-v-vo, in the plural, the departed. In Sanskrit this root is turned into a simple verb, nas-a-ti, he perishes. But in order to give to it a more distinctly neuter meaning, a new verbal base is formed by composition with y a, n a s-y a-ti, he goes to destruction, he perishes.

By the same or a very similar process denominative verbs are formed in Sanskrit to a very large extent. From râyan, king, we form râyâ-ya-te, he behaves like a king, literally, he goes the king, he acts the king, il a l'allurs d'un roi. From kumârî, girl, kûmârâ-ya-te, he behaves like a girl, eto.

After raising n as to n â sa, and adding the same radical ya, Sanskrit produces a causative verb, n â saya-ti, he sends to destruction, the Latin nécare.

In close analogy to the neuter verb nasyati, the regular passive is formed in Sanskrit by composition with ya, but by adding, at the same time, a differ-

See Sanskrit Grammer, § 497. I doubt whether in Grank kyreless is a denominative verb and stands for kyrelloyle (Curtius, Chromologie, p. 63). I should prefer to explain it as ken year in, to proclaim, as a verb of the fourth class.

ent set of personal terminations. Thus nás-yá-ti means he perishes, while nas-yá-te means he is destroyed.

The usual terminations of the Optative in Sanskrit

are: -

yam, yas, yat, yama, yata, yus, or, after bases ending in vowels:—

(yam, b, it lms, lts, lyus

In Greek: -

after hases ending in 0 : -

or, after bases ending in o: -

In Lettin :-- lont, like .-- lont,

im, in, it, imms, fits, int.

If we add these terminations to the root A S, to be,

we get the Sanskrit s-y âm for a s-y âm : —
syâm, syân, syât, syâm, syâta, syus.
Greek &c-low, contracted to clos: —

Latin es-iem, changed to siem, sim, and erim:

wist, 1 shint. wide. allim, elt.# «Imma, altin. shirt. eim. Alli. erit. erimus, eritie. erint srim, eris.

If we add the other termination to a verbal base ending in certain vowels, we get the Sanskrit bharavam, contracted to bhareyam:—

bhardyam, bhards, bhardt, bhardens, bhardts, bhardyus. in Greek φέρο-μα:—

in Latin fers-im, changed to ferom, used in the sense

Lex Repetund. "crivis romanus ex hac legy fiet, nepotenque — crivels romanel justs' muto." Cf. Egger, Lat. Serm. Vetud. Reley, p. 249. Menulur, in Mémoires de la Soviété de Linguistique de Paris, vo. l. p. 34.

² Still used as long by Plantus; cf. Nene, Formenlehre, il. p. 340.

of a future, but replaced 1 in the first person by feram, the subjunctive of the present: —

foram, foris, facet, furimus, foritis, forant. Perfect Subjunctive: --

tal-erim, tal-eris, tal-erit, tal-erimus, tal-eritis,3 tal-erint.

Here we have clearly the same auxiliary verb, i or y a, again, and we are driven to admit that what we now call an optative or potential mood, was originally a kind of future, formed by y a, to go, very much like the French je vais dire. I am going to say, I shall say, or like the Zulu ngi-ya-ku-tanda, I go to love, I shall love. The future would afterwards assume the character of a civil command, as "thou wilt go" may be used even by us in the sense of "go;" and the imperative would dwindle away into a potential, as we may say: "Go and you will see, " in the same sense as, If you go, you will see.

The terminations of the future are :-

Sanskrit : -

gykul, ayasi, synti, sykmas, syktha, syunti. Grook:—

co, cos, cos, cos, cour, cours.

Latin:—

cro, uris, orit, crimus. critis, crunt.

* Historically the i in taleritis should be long in the subjunctive of the perfect, short in the fature.

Black, On the Concord, p. bevi.

In old Latin the termination of the first person singular was on. Thus Quintilian, 1.7, 23, says: "Qaid? non Cate Conserius diors at facion, direct at facion scripsit, condemque in criteria, que similitar cadout, modem tenuit? quod et ax veteribus ejus libris manifestum est, et a Messata in libre de a littura positum." Neue, Fernandetre, li. p. 243. The introduction of ferem, originally a subjunctive, to express the fature in the first person, reminds us of the distinction in English between Island thus will, though the analogy falls in the first person plural. In Homee the new of the subjunctive for the future is wall known. See Carriers, Champeleis, p. 39.

In these terminations we have really two auxiliary verbs, the verb as, to be, and ya, to go, and by adding them to any given root, as, for instance, DA, to give, we have the Sanskrit (dâ-as-yâ-mi):—
da-ya-mi, dâ-ya-di, dâ-ya-di, dâ-ya-tha, dâ-ya-tha, dâ-ya-thi, Greek (ôu-to-in):—

tion, tion, tion, tions tion, tions.

pot-ero, pot-eris, pot-eritt, pot-erittis, pot-erittis, pot-erittis,

A verbal form of very frequent occurrence in Sanskrit is the so-called gerundive participle which signifies that a thing is necessary or proper to be done. Thus from budh, to know, is formed bodh-ya-s, one who is to be known, cognoscendus; from guh, to hide, guh-ya-s, or goh-ya-s, one who is to be hidden, literally, one who goes to a state of hiding or being hidden; from ya-g, to sacrifice, ya-g-ya-s, one who is or ought to be worshipped. Here, again, what is going to be becomes gradually what will be, and lastly, what shall be. In Greek we find but few analogous forms, such as ayos, holy, grey-oc, to be hated; in Latin ex-im-i-us, to be taken out; in Gothic andanam-ja, to be taken on, to be accepted, agreeable, German angenehm,*

In allow, for twels, the f or y is last in Greek as small. In other verbs s and y are both last. Hence versus becomes review, and reed, the so-called Attic firture. Bopp, Veryleich-Grammatik, first ed., p. 903. In Latin we have traces of a similar future in forms like faces, cap-so, etc. See Neue, Fernandehre, ii. p. 421. The hole dialoct sometimes doubles the owner the vowel is short, abbrevious. But this can hardly be considered relic of the original st. because the same reduplication takes places sometimes in the Acrist, byconece.

See Bapp, Veryleichende Gremmutik, §§ 897, 888. These verbal adjectives should be carefully distinguished from nominal adjectives, such as Samskrit diveyase, divinus, originally divises, i. a., divisibanas, being in heaven; sississ, demosticus, originally discover, being in the house These are adjectives formed, it would seem, from old locatives, just as in.

While the gerundive participles in ya are formed on the same principle as the verbal bases in ya of the passive, a number of substantives in ya seem to have been formed in close analogy to the bases of denominative verbs, or the bases of neuter verbs, in all of which the derivative ya expresses originally the act of going, behaving, and at last of simple being. Thus from vid, to know, we find in Sanskrit vid-ya, knowing, knowledge; from si, to lie down, sayya; resting. Analogous forms in Latin are gand-i-um, stud-i-um, or with feminine terminations, in-ed-i-a, in-vid-i-a, per-nic-i-es, ecab-i-es; in Greek, par-in, in-vid-i-a, or in-principles, or in German, numerous abstract nouns in i and e.

This shows how much can be achieved, and has been achieved, in language with the simplest materials. Neuter, denominative, causative, passive verbs, optatives and futures, gerundives, adjectives, and substantives, all are formed by one and the same process, by means of one and the same root. It is no inconsiderable portion of grammar which has thus been explained by this one root y a, to go, and we learn again and again how simple and yet how wonderful are the ways of language, if we follow them up from stratum to stratum to their original starting-point.

Now what has happened in these cases, has happened over and over again in the history of language. Everything that is now formal, not only derivative suffixes, but everything that constitutes the grammat-

Back we can form from etche, house, etche-tic, of the house, and etche-ticacea, he who is of the house; or from sema, eco, seman-ren, of the son, ami seman-ren, he who is of the soci. See W. J. van Eye, Essel de Grommaire de la Langue Rasque, 1867, p. 16.

1 Bopp, Veryleichende Grummatik, §§ 888-808.

ical framework and articulation of language, was originally material. What we now call the terminations of cases were mostly local adverbs; what we call the personal endings of verbs were personal pronouns. Suffixes and affixes were mostly independent words, nominal, verbal, or pronominal; there is, in fact, nothing in language that is now empty, or dead, or formal, that was not originally full, and alive, and material. It is the object of Comparative Grammar to trace overy formal or dead element back to its lifelike form; and though this resuscitating process is by no means complete, may, though in several cases it seems hopeless to try to discover the living type from which proceeded the petrified fragments which we call terminations or suffixes, enough evidence has been brought together to establish on the firmest basis this general maxim, that Nothing is dead in any language that was not originally alive; that nothing exists in a tertiary stratum that does not find its antecedents and its explanation in the secondary or primary stratum of human speech.

After having explained, as far as it was possible in so short a time, what I consider to be the right view of the stratification of human speech, I should have wished to be able to show to you how the aspect of some of the most difficult and most interesting problems of our science is changed, if we look at them again with the new light which we have gained regarding the necessary antecedents of all language. Let me only call your attention to one of the most contested points in the Science of Language. The question whether we may assign a common origin to the Aryan and Semitic languages has been discussed over and over again. No one thinks now of deriving

Sanskrit from Hebrew, or Hebrew from Sanskrit; the only question is whether at some time or other the two languages could ever have formed part of one and the same body of speech. There are scholars, and very eminent scholars, who deny all similarity between the two, while others have collected materials that would seem to make it difficult to assign such numerous coincidences to mere chance. Nowhere, in fact, has Bacon's observation on this radical distinction between different men's dispositions for philosophy and the sciences been more fully verified than among the students of the Science of Language; -Maximum et velut radicale discrimen ingeniorum, quoad philosophiam et scientias, illud est, quod alia ingenia sint fortiora et aptiora ad notandas rerum differentias ; alia ad notandas rerum cimilitudines. Utrumque autem ingenium facile labitur in excessum, prensando aut gradus rerum, aut umbras.1 Before, however, we enter upon an examination of the evidence brought forward by different scholars in support of their conflicting theories, it is our first duty to ask a preliminary question, viz.; What kind of evidence have we any right to expect, considering that both Sanskrit and Hebrew belong, in the state in which we know them, to the inflectional stratum of speech?

Now it is quite true that Sanskrit and Hebrew had a separate existence long before they reached the tertiary stratum, before they became thoroughly inflectional; and that consequently they can share nothing in common that is peculiar to the inflectional stratum in each, nothing that is the result of phonetic decay, which sets in after combinatory formations have be-

Becon, Norum Organum, i. 55.

come unintelligible and traditional. I mean, supposing that the pronoun of the first person had been originally the same in the Semitic and Aryan languages, supposing that in the Hebrew an-oki (Assyrian auaku, Phen. anak) the last portion, aki, was originally identical with the Sanskrit ah in aham, the Greek cy in Asi, it would still be useless to attempt to derive the termination of the first person singular, whether in katal-ti or in ektôl, from the same type which in Sanskrit appears as mi or am or a, in tuda-mi, atud-am, tutod-a. There cannot be between Hebrew and Sanskrit the same relationship as between Sanskrit and Greek, if indeed the term of relationship is applicable even to Sanskrit and Greek, which are really mere dialectic varieties of one and the same type of speech.

The question then arises, Could the Semitic and Aryan languages have been identical during the second or combinatory period? Here, as before, the answer must be, I believe, decidedly negative, for not only are the empty words which are used for derivative purposes different in each, but, what is far more characteristic, the manner in which they are added to the stems is different too. In the Aryan languages formative elements are attached to the ends of words only; in the Semitic languages they are found both at the end and at the beginning. In the Aryan languages grammatical compounds are all according to the formula re; in the Semitic we have formations

after the formulas ro, or, and orp.

There remains, therefore, the first or isolating stage only in which Semitic and Aryan speech might have been identical. But even here we must make a distinction. All Aryan roots are monosyllabic, all Semi-

tie roots have been raised to triliteral form. Therefore it is only previous to the time when the Semitic roots assumed this secondary triliteral form that any community could possibly be admitted between these two streams of language. Supposing we knew as an historical fact that at this early period - a period which transcends the limits of everything we are accustomed to call historical-Semitic and Arvan speech had been identical, what evidence of this union could we expect to find in the actual Semitic and Arvan languages such as we know them in their inflectional period? Let us recollect that the 100,000 words of English, nay, the many hundred thousand words in all the dictionaries of the other Arvan languages, have been reduced to about 500 roots, and that this small number of roots admits of still further reduction. Let us, then, bear in mind that the same holds good with regard to the Semitic languages, particularly if we accept the reduction of all triliteral to biliteral roots. What, then, could we expect in our comparison of Hebrew and Sanskrit but a small number of radical coincidences, a similarity in the form and meaning of about 500 radical syllables, everything else in Hebrew and Sanskrit being an after-growth, which could not begin before the two branches of speech were severed once and forever.

But more, if we look at these roots we shall find that their predicative power is throughout very general, and therefore liable to an infinite amount of specification. A root that means to fall (Sk. pat, vi-er-s) comes to mean to fly (Sk. ut-pat, virepa). The root dâ, which means to give, assumes, after the preposition â, the sense of taking. The root yu, which means to join, means to separate if preceded

by the preposition vi. The root ghar, which expresses brightness, may supply, and does supply in different Aryan languages, derivations expressive of brightness (gleam), warmth (Sk. gharma, heat), lov (yalper), love (yapic), of the colors of green (Sk. hari), yellow (gilvus, flavus), and red (Sk. harit, fuleus), and of the conception of growing (ger-men). In the Semitic languages this vagueness of meaning in the radical elements forms one of the principal difficulties of the student, for according as a root is used in its different conjugations, it may convey the most startling variety of conception. It is also to be taken into account that out of the very limited number of roots which at that early time were used in common by the ancestors of the Aryan and Semitic races, a certain portion may have been lost by each, so that the fact that there are roots in Hebrew of which no trace exists in Sanskrit, and vice versa, would again be perfectly natural and intelligible.

It is right and most essential that we should see all this clearly, that we should understand how little evidence we are justified in expecting in support of a common origin of the Semitic and Aryan languages, before we commit ourselves to any opinion on this important subject. I have by no means exhausted all the influences that would naturally, may necessarily, have contributed towards producing the differences between the radical elements of Aryan and Semitic speech, always supposing that the two sprang originally from the same source. Even if we excluded the ravages of phonetic decay from that early period of speech, we should have to make ample allowances for the influence of dialectic variety. We know in the Aryan languages the constant play between gut-

turals, dentals, and labials (quinque, Sk. panka, mare, Æol. mare, Goth. finf). We know the dialectic interchange of Aspirate, Media, and Tennis, which, from the very beginning, has imparted to the principal channels of Aryan speech their individual character (Tpeis, Goth. threis, High German drei).1 If this and much more could happen within the dialectic limits of one more or less settled body of speech, what must have been the chances beyond those limits? Considering how fatal to the identity of a word the change of a single consonant would be in monosyllabic languages, we might expect that monosyllabic roots, if their meaning was so general, vague, and changeable, would all the more carefully have preserved their consonantal outline. But this is by no means the case. Monosyllabic languages have their dialects no less than polysyllabic ones; and from the

I Until a rational account of those changes, comprehended under the name of Lautverschiebung, is given, we must continue to look upon them, not as the result of phonetic datay, but of dislocite growth. I am glad to find that this is more and more admitted by those who think for themselves, limitend of simply repeating the opinions of others. Grimm's Law stands no longer alone, as peculiar to the Tentonic languages, but analogous changes have been pointed out in the South-African, the Chinese, the Polymerian dialocts, showing that those changes are everywhere collateral, not successive. I agree with Professor Cartius and other scholars that the language to what we call Lauteerschiebung was given by the third medification in each series of consenants, by the ga, dh, th in Sanskrit, the g, tt, o, in Greek, I differ from him in considering the changes of Loutrerschiebung as the result of disloctic variety, while he sees their motive power in phonetic corraption. But whether we take the one view or the other, I do not see that Dr. Scherer has removed any of our difficulties. See Curtius, Grandings, 4th ed., p. 426, note. Dr. Scherer, in his thoughtful work, Zar Geschichte der Deutschen Sprucke, has very nearly, though not quite, apprehended the meaning of my explanation as to the effects of dialoctic change contrusted with those of phonetic decay. If it is allowable to use a more lumely illustration, one might may with perfect truth, that each dialect chooses its own phonetic garment, as people choses the coats and trunsers which best in them. The simile, like all similes, is imperfect, yet it is far more exact than if we compare the ravages of phoneilo decay, as is frequently dame, to the wear and tear of these phonetic suits.

rapid and decisive divergence of such dialects, we may learn how rapid and decisive the divergence of langaage must have been during the isolating period. Mr. Edkins, who has paid particular attention to the dialects of Chinese, states that in the northern provinces the greatest changes have taken place, eight initial and one final consonant having been exchanged for others, and three finals lost. Along the southern bank of the Yang-tsi-kiang, and a little to the north of it, the old initials are all preserved, as also through Chekiang to Fuh-kien. But among the finals, m in exchanged for n; t and p are lost, and also k, except in some country districts. Some words have two forms, one used colloquially, and one appropriated to reading. The former is the older pronunciation, and the latter more near to Mandarin. The cities of Sachen, Hang-chen, Ningpo, and When-chen, with the surrounding country, may be considered as having one dialect, spoken probably by thirty millions of people, i. s., by more than the whole population of Great Britain and Ireland. The city of Hwei-chen has a dialect of its own, in which the soft initial consonants are exchanged for hard and aspirated ones, a process analogous to what we call Lautverschiebung in the Aryan languages. At Fu-cheu-fu, in the eastern part of the province of Kiang-si, the soft initials have likewise been replaced by aspirates. In many parts of the province of Hunan the soft initials still linger on; but in the city of Chang-sha the spoken dialect has the five tones of Mandarin, and the aspirated and other initials distributed in the same manner. In the island of Hai-man there is a distinct approach to the form which Chinese words assume in the language of Annam. Many of the hard consonants are softened,

instead of the reverse taking place as in many other parts of China. Thus ti, di, both ti in Mandarin, are both pronounced di in Hai-nan. B and p are both used for many words whose initials are w and f in Mandarin. In the dialects of the province of Fuhkien the following changes take place in initial consonants: k is used for h; p for f; m, b, for w; j for w; t for ch; ch for s; ng for i, y, w; n for j.1 When we have clearly realized to ourselves what such changes mean in words consisting of one consonant and one vowel, we shall be more competent to act as judges, and to determine what right we have to call for more ample and more definite evidence in support of the common origin of languages which became separated during their monosyllabic or isolating stages, and which are not known to us before they are well advanced in the inflectional stage.

It might be said, - Why, if we make allowance for all this, the evidence really comes to nothing, and is hardly deserving of the attention of the scholar. I do not deny that this is, and always has been my own opinion. All I wish to put clearly before other acholars is, that this is not our fault. We see why there can be no evidence, and we find there is no evidence, or very little support of a common origin of Semitic and Aryan speech. But that is very different from dogmatic assertions, so often and so confidently repeated, that there can be no kind of relationship between Sanskrit and Hebrew, that they must have had different beginnings, that they represent, in fact, two independent species of human speech. All this is pure dogmatism, and no true scholar will be satisfied with it, or turn away con-

¹ Edhins, Grammar, p. 84.

temptuously from the tentative researches of scholars like Ewald, Raumer, and Ascoli. These scholars, particularly Ranner and Ascoli, have given us, as far as I can judge, far more evidence in support of a radical relationship between Hebrew and Sanskrit than, from my point of view, we are entitled to expect. I mean this as a caution in both directions. If, on one side, we ought not to demand more than we have a right to demand, we ought, on the other, not to look for, nor attempt to bring forward, more evidence than the nature of the case admits of. We know that words which have identically the same sound and meaning in Sanskrit, Greek, Latin, and German, cannot be the same words, because they would contravene those phonetic laws that made these languages to differ from each other. To doom cannot have any connection with the Latin damnare; to call cannot be the Greek main, the Latin calare; nor Greek dankor the German faul; the English care cannot be identified with Latin cura, nor the German Auge with the Greek airy. The same applies, only with a hundred-fold greater force, to words in Hebrew and Sauskrit. If any trillteral root in Hebrew were to agree with a triliteral word in Sanskrit, we should feel cortain, at once, that they are not the same, or that their similarity is purely accidental. Pronouns, numerals, and a few imitative rather than predicative names for father and mother, etc., may have been preserved from the carliest stage by the Aryan and Semitic speakers; but if scholars go beyond, and compare such words as Hebrew barak, to bless, and Latin precari; Hebrew lab, heart, and the English liver; Hebrew melech, king, and the Latin mulcare, to smoothe, to quiet, to subdue, they are in great danger, I believe, of proving too much.

Attempts have lately been made to point out a number of roots which Chinese shares in common with Sanskrit. Far be it from me to stigmatize even auch researches as unscientific, though it requires an effort for one brought up in the very straitest school of Bopp, to approach such inquiries without prejudice, Yet, if conducted with care and sobriety, and particularly with a clear perception of the limits within which such inquiries must be confined, they are perfeetly legitimate; far more so than the learned dogmatism with which some of our most eminent scholars have declared a common origin of Sanskrit and Chinese as out of the question. I cannot bring myself to say that the method which Mr. Chalmers adopts in his interesting work on the "Origin of Chinese" is likely to carry conviction to the mind of the bond fide skeptic. I believe, before we compare the words of Chinese with those of any other language, every effort should be made to trace Chinese words back to their most primitive form. Here Mr. Edkins has pointed out the road that ought to be followed, and has clearly shown the great advantage to be derived from an accurate study of Chinese dialects. The same scholar has done still more by pointing out how Chinese should at first be compared with its nearest relatives, the Mongolian of the North-Turanian, and the Tibetan of the South-Turanian class, before any comparisons are attempted with more distant colonies that started during the monosyllabic period of speech. "I am now seeking to compare," he writes, "the Mongolian and Tibetan with the Chinese, and have already obtained some interesting results :-

"I. A large proportion of Mongol words are Chinese. Perhaps a fifth are so. The identity is in the

first syllable of the Mongol words, that being the root. The correspondence is most striking in the adjectives, of which perhaps one half of the mest common are the same radically as in Chinese; e. g., sain, good; begen, low; ichi, right; sologai, left; c'hihe, straight; gadan, outside; c'hohon, few; logon, green; hung-gun, light (not heavy). But the identity is also extensive in other parts of speech, and this identity of common roots seems to extend into the Turkish, Tatar, etc.; e. g., su, water; tenri, heaven.

*2. To compare Mongol with Chinese it is necessary to go back at least aix centuries in the development of the Chinese language. For we find in common roots final letters peculiar to the old Chinese, ε. g., final m. The initial letters also need to be considered from another standpoint than the Mandarin pronunciation. If a large number of words are common to Chinese, Mongol, and Tatar, we must go back at least twelve centuries to obtain a convenient epoch of comparison.

43. While the Mongol has no traces of tones, they are very distinctly developed in Tibetan. Csoma de Körös and Schmidt do not mention the existence of tones, but they plainly occur in the pronunciation of

native Tibetans resident in Peking.

4. As in the case of the comparison with Mongol, it is necessary in examining the connection of Tibetan with Chinese to adopt the old form of the Chinese with its more numerous final consonants, and its full system of soft, hard, and aspirated initials. The Tibetan numerals exemplify this with sufficient clearness.

"5. While the Mongol is near the Chinese in the

extensive prevalence of words common to the two languages, the Tibetan is near in phonal structure, as being tonic and monosyllabic. This being so, it is less remarkable that there are many words common to Chinese and Tibetan, for it might have been expected; but that there should be perhaps as many in the Mongol with its long untoucd polysyllables, is a curious circumstance."

I Having stated this on the authority of Mr. F. flatus, one of our less living Chinese scholars, it is but fair that I should give the opinion of author Chinese scholar, the late Stanishas Julies, whose competence to give an opinion on this subject Mr. Edkins would probably be the first to acknowledge. All that we really want is the truth, set a memoratory triumph of our own opinions. Mr. Julies wrote to me in July, 1868:—

"Je ne suis pas du tout de l'avis d'Edkius qui dir qu'un grand nombre

de mots mongols sont chinais; s'est faux, archifaux.

Sain est mandehou et vent dire bou, en chinois rhest.
hegen, lour : en chinois hin.
lichi, droit ; en chinois yeon.
anlogat, left, gauche ; en chinois hin.
Chihe, straight : en chinois fold (rectus),
gendas, nutside : en chinois seal.
logen, grenn ; en chinois teing,
a'haben, free ; en chinois cohno.
Lungua, light (not heary) : en chinois king,

"Je vondrais bien savoir comment M. Edkins prouve que les mots qu'il eits sont chimis.

"Foucaux a échoné également ou vontant prouver, autratois, que 200 mots thibétains qu'il avair choisis resemblaient aux mots chinois correspondants."

M. Stanislas Julieu wrote again to me on the list of July : -

"J'ai peur que vous ne soyez fache du jugement sevère que j'al porté sur les identifications faites par l'Alains du mongel avec le chimis. J'ai d'abord pris dans votre sevant article les mots mongels qu'il cite et je vous ai montré qu'ils su ressemblémt pas le moins de monde su chimis.

"Je vals rous en clier d'autres tirés du Dictionnaire de Khimlung chi-

nois mandchoo-mangel.

Mirror	ML:	Chinole.
tearly	did a constant	thien.
	solail	
UNDER NOT	A T A MAN TO SELECT A SELECT AND ASSESSMENT OF THE PARTY	
delipse	de solell	Jectir.
acres.	lone a land	nonel.
	dtolle	
delipse saron,	de solell	noner.

This is no doubt the right spirit in which researches into the early history of language should be

equald, mages,	Sur-
ayonega, le tonzerre	LouI.
tchagilgan, delair	tien.
toward to relate a second	WH.
marallanis en lamos	Lini.
signuieri, la rouis	choung
kirago, la galée	ziouz.
lagues, la neign	rong.
salpin, le vent	
ouzour, Pean	choul.
ont la fen	Ao.
eiros, la terre	thon-
mirin. For	altan.

"Je vous domment, si vous la désiren, 1000 mois mongois avec laurs systemanymes chinois, et je défic M. Edkins da trouver dans les 1000 mois mongols un sual qui ressemble au môt chinois synonyme.

"Comme l'ai fait assez de thitetain, je puis vous fuornir aurai une maititude de mote thitetains aves leurs correspondants en chimis, et je déforai également M. Edkins de trouver un seul mot thitetain dans mille qui ressemble au mot chinois qui a le même sens."

My old friend, M. Stanislas Julien, wrote to me once more on this anh-

jert, the 6th of August, 1868;—
"Depuis une quinzaine d'années, J'ai l'avantage d'entretenir les meileures relations avec M. Edkins. J'ai lu, anciennement dans un journal que
publie M. Léon de Rosay (actuellement professour titulaire de la langue
publie fravail en M. Edkins a tâché de rapprocher et d'alamitée, par
les sons, des mots mongols et chinois ayant la même signification. Son
systôms m'a para mai fondé. Quelques mots chinois pouvent être entrés
systôms m'a para mai fondé. Quelques mots chinois pouvent être entrés
systôms m'a para mai fondé. Quelques mots chinois pouvent être entrés
systôms m'a para mai fondé. Quelques mots deux peoples, comms celá
dans la langue mongols par suite du contact des deux peoples, comms celá
set arrivé pour le mandchou, dont beaucoup de mots sont entrés dans la
langue mongols en en present les terminabons; mais il ne faudrait pas us
servir de ces axemples pour montrer l'identité ou les ressemblances des

deex langues.

"Quand les mandchous out vouls tradairs les livres chinois, ils out rencontre un grant nombre de mots dont les synonymes n'existaient pas
contre langue. Ils es sont alors emparé des mots chinois en leur dondans leur langue. Ils es sont alors emparé des mots chinois en leur dontains nots mandchous nandchouss, mais cette quasi-ressemblance de retains nots mandchous na preuve point le mains du monds Philamits de
dant langues. Par example, un préfet se dit en chinois téhi-jus, et un
sons-préfet tehi-hien; les mandchous qui ne possedaient point ces fenctionsons-préfet tehi-hien; les mandchous qui ne possedaient point ces fenctionsites so sont contentés de transcire les mons chinois dehkifou, dékhihipen.

"Le tafette se dit su chimis fehen-tes; les mandebous, n'ayant point de mots pour dire tafetas, out transcrit les sons chineis par tehense. Le burnbou se dit écheu-tes; ils ont écrit l'arbre (amoi fehense. Un titre de noblesse écrit sur du papier que s'appelle fai; les mandebous écrivent feise, conducted, and I hope that Mr. Edkins, Mr. Chalmers, and others, will not allow themselves to be discouraged by the ordinary objections that are brought
against all tentative studies. Even if their researches
should only lead to negative results, they would be
of the highest importance. The criterion by which
we test the relationship of inflectional languages,
such as Sanskrit and Greek, Hebrew and Arabic,
cannot, from the nature of the case, be applied to
languages which are still in the combinatory or isolating stratum, nor would they answer any purpose, if
we tried by them to determine whether certain lan-

Je pourrais vous citer an numbre considérable de mote du natus genre, qui no prouvent pas du tout l'identité du mandehon et du chinois.

"L'ambre a'appelle Acu-pe; les mandehous écrivent khôbo. La barte

s'appella hou tre, ils écrivent khânt.

"Voici de quelle manière les mandeboux ont fait certains verbes. Une balance s'appelle est chimna thies ping, ils certrent p'ing-st; pule pour dies pour avec une halance, ils out fait le verbe p'ingestimbé; dende est mu terminale en commune à beaucoup de verbes.

"Pour dire faire pour, ordonner de pour avec une balance, ile écriveat pringacidement? boundt est la forme factive on ramaties; corie termination est areal pour le passif; de sorte que ce verbe peut signifier aussi sere peut s

"Je pourrale citer annal des mots mandohous auxquele on a donné la

terminaison mongolo, et rece veral."

These remarks, made by one who, during his lifetime, was recognized by friend and for as the first Chinese scholar in Europe, ought to have their proper weight. They ought certainly to make us contlous before persuading cornelves that the connection between the methern and southern branches of the Turanian languages has been found in Chinese. On the other hand I am quits aware that all that M. Stanlaha Julien says against Mr. Edding may be true, and that nevertheless Chinese may have been the central language from which Mongolian in the north and Tibetan in the south branched off. A language, such as Chinese, with a small number of sounds and an immense number of mannings, can easily give high to dislacts which, in their later development, snight branch off in totally different directions. Even with languages so closely connected as Sanskrit and Larin, it would be easy to make out a list of a thousand words in Latin which could not be matched in Sanskrit. The question, therefore, is not decided. What is wanted are researches carried on by competent scholars, in an unprejudiced and at the same time a thoroughly assential spirit.

guages, separated during their inflectional growth, had been united during their combinatory stage, or whether languages, separated during their combinatory progress, had started from a common centre in their monosyllabic age. Bopp's attempt to work with his Aryan tools on the Malayo-Polynesian languages, and to discover in them traces of Aryan forms, ought to serve as a warning example.

However, there are dangers also, and even greater dangers, on the opposite shore, and if Mr. Chalmers in his interesting work on "the Origin of Chinese," compares, for instance, the Chinese tzé, child, with the Behemian tei, daughter, I know that the indignation of the Aryan scholars will be roused to a very high pitch, considering how they have proved most minutely that tsi or dei in Bohemian is the regular modification of dugte, and that dugte is the Sanskrit duhitar, the Greek Boydrap, daughter, originally a pet-name, meaning a milk-maid, and given by the Aryan shepherds, and by them only, to the daughters of their house. Such accidents! will happen in so comprehensive a subject as the Science of Language. They have happened to scholars like Bopp, Grimm, and Burnouf, and they will happen again. I do not defend haste or inaccuracy, I only say, we must venture on, and not imagine that all is done, and that nothing remains to conquer in our science. Our watchword, here as elsewhere, should be Festina lente! but, by all means, Festina! Festina! Festina!

i If Mr. Chalmers' comparison of the Chiasse and Bohamka manus for daughter is so unpardonable, what shall we say of Bopp's comparison of the Bengali and Sanskrit names for sister? Sister in Bengali is bohint, the Hodi bahin and hinn, the Frahrit bahist, the Sanskrit bhasgial. Bopp, in the most elaborate way, derives bohint from the Sanskrit avases, sister. Bopp, Vergicichande Grammatik, Vorrale sur vierten Abtheilung, p. 2.

PART II.

ON CURTIUS' CHRONOLOGY OF THE INDO-GERMANIC LANGUAGES.

In a former Lecture on the "Stratification of Language" I ventured to assert that wherever inflection has yielded to a rational analysis, it has invariably been recognized as the result of a previous combination, and wherever combination has been traced back to an earlier stage, that earlier stage has been simply juxtaposition.

Professor Pott in his "Etymologische Forschungen" (1871, p. 16), a work which worthily holds its place by the side of Bopp's "Comparative Grammar," questions the correctness of that statement; but in doing so he seems to me to have overlooked the restrictions which I myself had introduced, in order to avoid the danger of committing myself to what might seem too general a statement. I did not say that every form of inflection had been proved to spring from a previous combination, but I spoke of those cases only where we have succeeded in a rational analysis of inflectional forms, and it was in these that I maintained that inflection had always been found to be the result of previous combination. What is the object of the analysis of grammatical inflections, or of Comparative Grammar in general, if not to find out what terminations originally were, before they had assumed a purely formal character? If we take thu French adverb sincerement, sincerely, and trace it back to the Latin sincerd mente, we have for a second time the three stages or juxtaposition, combination, and, to a certain extent, inflection, repeated before our eyes. I say, inflection, for ment, though originally an independent word, soon becomes a mero adverbial suffix, the speakers so little thinking of its original purport, that we may say of a stone that it falls lowdement, heavily, without wishing to imply that it falls larida mente, with a heavy, lit., with a larid mind.

If we take the nom. sing. of a noun in Sanskrit, Greek, or Latin, we find that masculine nouns and frequently in z. We have for instance, Sk. vesa-a Gr. oise-c, Lat. vicu-s. These three words are identical in their termination, in their base, and in their root. The root is the Sk. vis, to settle down, to enter upon or into a thing. This root, without undergoing any further change, may answer the purpose both of a verbal and a nominal base. In the precative, for instance, we have vis-ya-t, he may enter, which yields to a rational analysis into vis, the root ya, to go, and the old pronominal stem of the third person, t, he. We reduplicate the root, and we get the perfect vi-vi s-u s, they have entered. Here I can understand that objections might be raised against accepting us as a mere phonetic corruption of ant and a nti; but if, as in Greek, we find as the termination of the third pers, plur, of the perfect am, we know that this is a merely phonetic change of the original anti, and this anti has been traced back by Pott himself (whether rightly or wrongly, we need not here inquire) to the pronominal stems an a, that, and ti, he. These two stems, when joined together.

Curtius, Verbum, p. 72.

become a n ti, meaning those and he, and are gradnally reduced to ion, and in Sanskrit to us for an t. What we call reduplication has likewise been traced back by Pott himself to an original repetition of the whole root, so that vi-vis stands for an original or intentional vis-vis; thus showing again the succession of the three stages, juxtaposition, vis-vis, combination vi-vis, inflection, the same, vi-vis, though liable to further phonetic modification.

Used as a nominal base the same root vis appears, without any change, in the nom. plur. vis-as, the settlers, the claus, the people. Now here again Professor Pott himself has endeavored to explain the inflection as by tracing it back to the pronominal base as, in a sau, ills. He therefore takes the plural vis-as as a compound, meaning "man and that;" that is to say, he traces the inflection back to a combinatory origin.

By raising the simple base vis to visa, we arrive at new verbal forms, such as vis-a-mi, I enter, visa-si, then enterest, vis-a-ti, he enters. In all these inflectional forms, the antecedent combinatory stage is still more or less visible, for mi, si, ti, whatever their exact history may have been, are clearly varieties of the pronominal bases of the first, second, and third persons, ma, tva, ta.

Lastly, by raising vis to vesu, we arrive at a new nominal base, and by adding to it the stem of a demonstrative pronoun s, we form the so-called nomsing. vesu-s, else-s, vicu-s, from which we started, meaning originally house-here, this house, the house.

In all this Professor Pott would fully agree, but where he would differ, would be when we proceed to

¹ Pott, E. F., 1871, p. 21.

dawn, a minority, or a majority of new formations, but do not draw a fast and hard line, cutting off one stratum from the other. Natural growth and even merely mechanical accumulation and accretion, here as elsewhere, are so minute and almost imporceptible that they defy all strict scientific terminology, and force upon us the lesson that we must be satisfied with an approximate accuracy."

Holding these opinions, and having established them by an amount of evidence which, though it might easily be increased, seemed to me sufficient, I did not think it safe to assign to the three stages in the history of the Aryan languages, the juxtapositional, the combinatory, and the inflectional, a strictly successive character, still less to admit in the growth of the Aryan languages a number of definite stages, which should be sharply separated from each other, and assume an almost chronological character. I fully admit that wherever inflectional forms in the Aryan languages have yielded to a rational analysis, we see that they are preceded chronologically by combinatory formations; nor should I deny for one moment that combinatory forms presuppose an antecedent, and therefore chronologically more ancient stage of mero juxtaposition. What I doubt is whether, as soon as combination sets in, juxtaposition ceases, and whether the first appearance of inflection puts an end to the continued working of combination.

It seems to me, even if we argue only on a priori grounds, that there must have been at least a period of transition during which both principles were at work together, and I hardly can understand what certain scholars mean if they represent the principle of inflection as a sudden psychological change which

as soon as it has taken place, makes a return to combination altegether impossible. If, instead of arguing a priori, we look the facts of language in the face, we cannot help seeing that, even after that period during which it is supposed that the United Aryan language had attained its full development, I mean at a time when Sanskrit, Greek, and Latin had become completely separated, as so many national dislects, each with its own fully developed inflectional grammar, the power of combination was by no means extinct. The free power of composition, which is so manifest in Sanskrit and Greek, testifies to the continned working of combination in strictly historical times. I see no real distinction between the transition of Nea palis, i. e., new town, into Neapolis, and into Naplez, and the most primitive combination in Chinese, and I maintain that as long as a language retains that unbounded faculty of composition, which we see in Sanskrit, in Greek, and in German, the growth of new inflectional forms from combinatory germs must be admitted as possible. Forms such as the passive agrist in Greek, tribus, or the weak preterite in Gothic nas-i-da, nas-i-dédjau, need not have been formed before the Aryan family broke up into national languages; and forms such as Italian mees, fratelmo, or the future arro, I shall have, though not exactly of the same workmanship, show at all events that analogous powers are at work even in the latest periods of linguistic growth.

Holding these opinions, which, as far as I know, have never been controverted, I ought perhaps, when I came to publish the preceding Lecture, to have defended my position against the powerful arguments advanced in the meantime by my old friend, Profesgeneralize, and to lay it down as an axiom, that all inflectional forms must have had the same combinatory origin. He may be right in thus guarding against too hasty generalization, to which we are but too prone in all inductive sciences. I am well aware that there are many inflections which have not yielded, as yet, to any rational analysis, but, with that reservation, I thought, and I still think, it right to say that, until some other process of forming those inflections has been pointed out, inflection may be considered as the invariable result of combination.

It is impossible in writing, always to repeat such qualifications and reservations. They must be taken as understood. Take for instance the augment in Greek and Sanskrit. Some scholars have explained it as a negative particle, others as a demonstrative pronoun; others, again, took it as a mere symbol of differentiation. If the last explanation could be established by more general analogies, then, no doubt, we should have here an inflection, that cannot be referred to combination. Again, it would be difficult to say, what independent element was added to the pronoun sa, he, in order to make it sa, she. This, too, may, for all we know, be a case of phonetic symbolism, and, if so, it should be treated on its own merits. The lengthening of the vowel in the subjunctive mood was formerly represented by Professor Curtins as a symbolic expression of hesitation, but he has lately recalled that explanation as untenable. I pointed out that when in Hebrew we meet with such forms as Piel and Pual, Hiphil and Hophal, we feel tempted to admit formative agencies, different from mere juxtaposition and combination. But before we admit this purely phonetic symbolism, we

should bear in mind that the changes of bruder, brother, into brüder, brethren, of Ich weise, I know, into wir wissen, we know, which seem at first eight purely phonetic, have after all been proved to be the indirect result of juxtaposition and combination, so that we ought to be extremely careful and first exhaust every possible rational explanation, before we have recourse to phonetic symbolism as an element in the production of inflection forms.

The chief object, however, of my lecture on the "Stratification of Language" was not so much to show that inflection everywhere presupposes combination, and combination juxtaposition, but rather to call attention to a fact that had not been noticed before, viz.: that there is hardly any language, which is not at the same time isolating, combinatory, and inflec-

tional.

It had been the custom in classifying languages morphologically to represent some languages, for instance Chinese, as isolating; others, such as Turkish or Finnish, as combinatory; others, such as Sanskrit or Hobrew, as inflectional. Without contesting the value of this classification for certain purposes, I pointed out that even Chinese, the very type of the isolating class, is not free from combinatory forms, and that the more highly developed among the combinatory languages, such as Hungarian, Finnish, Tamil, etc., show the clearest traces of incipient inflection. "The difficulty is not," as I said, " to show the transition of one stratum, of speech into another, but rather to draw a sharp line between the different strata. The same difficulty was felt in Geology, and led Sir Charles Lyell to invent such pliant names as Eccene, Meiscene, and Pleiocene, names which indicate a mere

sor G. Curtius, in support of a diametrically opposite opinion in his classical essay, "On the Chronology of the Indo-Germanic Languages," published in 1867. new edition, 1873. While I had endeavored to show that juxtaposition, combination, and inflection, though following each other in succession, do not represent chronological periods, but represent phases, strongly developed, it is true, in certain languages, but extending their influence far beyond the limits commonly assigned to them, Professor Curtius tried to establish the chronological character not only of these three, but of four other phases or periods in the history of Aryan speech. Confining himself to what he considers the undivided Aryan language to have been, before it was broken up into national dialects, such as Sanskrit, Greek, and Latin, he proceeds to subdivide the antecedent period of its growth into seven definite stages, each marked by a definite character, and each representing a sum of years in the chronology of the Arvan language. As I had found it difficult to treat Chinese as entirely juxtapositional, or Turkish as entirely combinatory, or Sanskrit as entirely inflectional, it was perhaps not to be wondered at that not even the persuasive pleading of my learned friend could convince me of the truth of the more minute chronological division proposed by him in his learned essay. But it would hardly have been fair if, on the present occasion, I had reprinted my "Rede Lecture" without explaining why I had altered nothing in my the ory of linguistic growth, why I retained these three phases and no more, and why I treated even these not as chronological periods, in the strict same of the word, but as preponderating tendencies, giving an individual character to certain classes of language, without being totally absent in others. Professor Curtius is one of the few scholars with whom it is pleasant to differ. He has shown again and again that what he cares for is truth, not victory, and when he has defended his position against attacks not always courteons, he has invariably done so, not with hard words, but with hard arguments. I therefore feel no hesitation in stating plainly to him where his theories seem to me either not fully supported, or even contradicted by the facts of language, and I trust that this free exchange of ideas, though in public, will be us pleasant as our conversations in private used to be,

now more than thirty years ago.

Let us begin with the First Period, which Professor Cartius calls the Root-Period. There must have been, as I tried to explain before, a period for the Aryan languages, during which they stood on a level with Chinese, using nothing but roots, or radical words, without having reduced any of them to a purely formal character, without having gone through the process of changing what Chinese grammarians call full words into empty words. I have always held, that to speak of roots as mere abstractions, as the result of grammatical theory, is self-contradictory. Roots which never had any real or historical existence may have been invented both in modern and ancient collections or Dhatupathas; but that is simply the fault of our etymological analysis, and in no way affects the fact, that the Aryan, like all other languages we know, began with roots. We may doubt the legitimacy of certain chemical elements, but not the reality of chemical elements in general. Language, in the sense in which we use the word, begins with roots, which are not only the ultimate facts for the Science of Language, but real facts in the history of human speech. To deny their historical reality would be tantamount to denying cause and effect.

Logically, no doubt, it is possible to distinguish between a root as a mere postulate, and a root used as an actual word. That distinction has been carefully elaborated by Indian grammarians and philosophers, but it does in no way concern us in purely historical researches. What I mean by a root used in real language is this: when we analyze a cluster of Sanskrit words, such as yodha-s, a fighter, yodhaka-s, a fighter, voddhû, a fighter, yodhana-m, fighting, yuddhi-s, a fight, yuyutsu-s, wishing to fight, â-y u dh a-m, a weapon, we easily see that they presuppose an element yudh, to fight, and that they are all derived from that element by well-known grammatical suffixes. Now is this yudh, which we call the root of all these words, a mere abstraction? Far from it. We find it as yudh used in the Veda either as a nominal or as a verbal base, according to suffixes by which it is followed. Thus yudh by itself would be a fighter, only that dh when final, has to be changed into t. We have gosh u-yudham, an accusative, the fighter among cows. In the plural we have y û d h-a s, fighters; in the locative yudh-i, in the fight; in the instrumental, yudh-i, with the weapon. That is to say, we find that as a nominal base, yudh, without any determinative suffixes, may express fighting, the place of fighting, the instrument of fighting, and a fighter. If our grammatical analysis is right, we should have yudh as a nominal base in y udh-y a-ti, lit, he goes to fighting yudh-yú-te, pass.; (a)-yut-amahi, nor., either

we were to fight, or we were fighters; yú-yut-sa-ti, he is to fight-fight; yudh-ya-s, to be fought (p. 94), etc. As a verbal base we find yudh, for instance, or yu-yudh-e, I have fought; in a-yud-dha, for a-yudh-ta, he fought. In the other Aryan languages this root has left hardly any traces; yet the Greek toph, and tophy would be impossible without the root yudh.

The only difference between Chinese and these Sanskrit forms which we have just examined, is that while in Chinese such a form as yudh-i, in the battle, would have for its last element a word clearly meaning middle, and having an independent accent. Sanskrit has lost the consciousness of the original material meaning of the i of the locative, and uses it traditionally as an empty word, as a formal element, as a more termination.

I also agree with Cartius that during the earliest stage, not of Sanskrit, but of Aryan speech in general, we have to admit two classes of roots, the predicative and demonstrative, and that what we now call the plural of yudh, yudh-as, fighters, was, or may have been, originally a compound consisting of the predicative root yudh, and the demonstrative root, as or sa, possibly repeated twice, meaning "fight-he-he," or 'fight-there-there," i. e., fighters.

There is another point with regard to the character of this earliest radical stage of the Aryan language, on which formally I should have agreed with Curtims, but where now I begin to feel more doubtful,—I mean the necessarily monosyllabic form of all original roots. There is, no doubt, much to be said for this view. We always like to begin with what is simple. We imagine, as it has been said, that the simple

idea must break forth, like lightning, in a simple body of sound, to be perceived in one single moment." But on the other hand, the simple, so far as it is the general, is frequently, to us at least, the last result of repeated complex conceptions, and therefore there is at all events no à priori argument against treating the simplest roots as the latest, rather than the earliest products of language. Languages in a low state of development are rich in words expressive of the most minute differences, they are poor in general expressions, a fact which ought to be taken into account as an important qualification of a remark made by Curties that language supplies necessaries first, luxuries afterwards (p. 82). I quote the following excellent remarks from Mr. Sayce's " Principles of comparative Philology " (p. 208): " Among modern savages the individual objects of sense have names enough, while general terms are very rare. The Mohicans have words for cutting various objects, but none to signify cutting simple." In taking this view we certainly are better able to explain the actual forms of the Ayran roots, viz., by elimination, rather than by composition. If we look for instance, as I did myself formerly, on such roots as yudh, yug, and yaut, as developed from the simpler root yu, or on mardh, marg, mark, marp, mard, smar, as developed from mar, then we are bound to ac-

¹ Dr. Callaway, in his Research on the Zeba Language (1870), p. 2, says: "The Zela Language contains appeared of 20,000 words in boost fide use among the people. These curious appellations for different indice cubs, to express certain minute peculiarross of color or arrangement of color, which it is difficult for as to green not synonymous, but instances in which a new name or name to used instead of adding adjectives to one name to express the various conditions of an object. Neither are these various varies used to express varieties of the same action, synonyma, such as adopted, to carry in the hand, where saids, to carry on the hand, where saids, to carry on the back."

count for the modificatory elements, such as dh, g, k, p, d, s, n, t, r, as remnants of other roots, whether predicative or demonstrative. Thus Curtius compares tar or tra, with tras, tram, trak, trap; tri and tru with trup, trib, taking the final consonants as modificatory letters? But what are these modificatory letters? Every attempt to account for them has failed. If it could be proved that these modificatory elements, which Curtius calls Determinatives, produced always the same modification of meaning, they might then be classed with the verbal suffixes which change simple verbs into causative, desiderative, or intensive verbs. But this is not the case. On the other hand, it would be perfectly intelligible that such roots as mark, marg, mard, mardh, expressing different kinds of crushing, became fixed side by side, that by a process of elimination, their distinguishing features were gradually removed, and the root mar left as the simplest form, expressive of the most general meaning. Without entering here on that process of mutual friction by which I believe that the development of roots can best be explained, we may say at least so much, that whatever process will account for the root y u, will likewise account for the root yug, nay, that roots like mark or mard are more graphic, expressive, and more easily intelligible than the root mar.

However, if this view of the origin of roots has to be adopted, it need not altogether exclude the other view. In the process of simplification, certain final letters may have become typical, may have seemed invested with a certain function or determinative power, and may therefore have been added independently to other roots, by that powerful imitative tendency which asserts itself again and again through the whole working of language. But however that may be, the sharp line of distinction which Curtius draws between the First Period, represented by simple, and the Second Period represented by derivative roots, seems certainly no longer tenable, least of all as dividing chronologically two distinct periods in the growth of language.

When we approach the Third Period, it might seem that here, at least, there could be no difference of opinion between Professor Curtius and myself. That Third Period represents simply what I called the first setting in of combination, following after the isolating stage. Curtius calls it the primary verbal period, and ascribes to it the origin of such combinatory forms as da-ma, give-I, da-tva, give-thou, da-ta, give-he; da-ma-tvi, give-we, da-tva-tvi, give-you, da-(a)nti, give-they. These verbal forms he considers as much earlier than any attempts at declension in nouns. No one who has read Curtius' arguments in support of this chronological arrangement would deny their extreme plausibility; but there are grave difficulties which made me hesitate in adopting this hypothetical framework of linguistic chronology. I shall only mention one, which seemed to me insurmountable. We know that during what we called the First Radical Period the sway of phonetic laws was already so firmly established, that, from that period onward to the present day, we can say, with perfect certainty, which phonetic changes are possible, and which are not. It is through these phonetic laws that the most distant past in the history of the Aryan language is connected with the present. It is on them that the

whole science of etymology is founded. Only because a certain root has a tennis, a media, an aspirate, or a sibilant, is it possible to keep it distinct from other roots. If t and s could be interchanged, then the root tar, to cross, would not be distinct from the root sar, to go. If d and dh could vary, then dar, to tear, would run together with dhar, to hold. These phonetic distinctions were firmly established in the radical period, and continue to be maintained, both in the undivided Arvan speech, and in the divided national dialects, such as Sanskrit, Greek, Latin, and Gothic. How then can we allow an intervening period, during which matty i, could become masi, tva-tvi, thas, and the same tva-tvi appear also as sai? Such changes, always most startling, may have been possible in earlier periods; but when phonetic order had once been established, as it was in what Curtius calls his first and second periods, to admit them as possible, would be, as far as I can judge, to admit a complete anachronism. Of two things one; either we must altogether surrender those chaotic changes which are required for identifying Sanskrit e with Greek um, and Greek um with mama, etc., or we must throw them back to a period anterior to the final settlement of the Aryan roots.

I now proceed to point out a second difficulty. If Curtius uses these same personal terminations, masi, tvasi, and anti, as proof positive that they must have been compounded out of ma+tva, and tvatva, before there were any case terminations, I do not think his argument is quite stringent. Curtius says: "If plural suffixes had existed before the coining of these terminations, we should expect them here, as well as in the noun" (p. 53) But the plural of the

pronoun I could never have been formed by a plural suffix, like the plural of horse. I admits of no plural, as little as thou, and hence the plural of these very pronouns in the Aryan language is not formed by the mere addition of a plural termination, but by a new base. We say I, but we; thou but you, and so through all the Aryan languages. According to Curtius himself, masi, the termination of the plural, is not formed by repeating ma, by saying I and I, but by ma and tva, I and thou, the most primitive way, he thinks, of expressing we. The termination of the second person plural might be expressed by repeating thou. "You did it," might have been rendered by "thou and thou did it;" but hardly by treating thou like a noun, and adding to it a plural termination. The absence of plural terminations, therefore at the end of the personal suffixes of the verbs, does not prove, as far as I can see, that plurals of nouns were unknown when the first, second, and third persons plural of the Aryan verbs were called into existence.

Again, if Curtius says, that "what language has once learnt, it does not forget again, and that therefore if the plural had once found expression in nouns, the verb would have claimed the same distinction," is true, no doubt, in many cases, but not so generally true as to supply a safe footing for a deductive argument. In so late a formation as the periphrastic future in Sanskrit, we say dâtâ-smah, as it were dator sumus, not dâtârah smah; and in the second person plural of the passive in Latin amamini, though the plural is marked, the gender is always

disregarded.

Further, even if we admit with Bopp and Curtius that the terminations of the medium are composed of

two pronouns, that the ta of the third person singular stands for ta-ti, to-him-he, that salesverse in fact meant originally hide-himself-he, it does not follow that in such a compound one pronominal element should have taken the termination of the accusative, any more than the other takes the termination of the nominative. The first element in every composition takes necessarily its Pada or thematic form; the second or final element has suffered so much, according to Bopp's own explanation, that nothing would be easier to explain than the disappearance of a final consonant, if it had existed. 'The absence of caseterminations in such compounds cannot therefore be used as proof of the non-existence of case-terminations at a time when the medial and other personal endings took their origin. On the contrary, these terminations seem to me to indicate, though I do not say to prove, that the conception of a subjective, as distinct from an objective case, had been fully realized by those who framed them. I do not myself venture to speak very positively of such minute processes of analysis as that which discovers in the Sk. first pers. sing, ind. pres. of the middle, tude, I strike, an original tuda+a+i, tuda+ma+i, tuda+ ma+mi, tuda+ma+ma, but admitting that the middle was formed in that way, and that it meant originally strike-to-me-I, then surely we have in the first m a an oblique case, and in the compound itself the clearest indication that the distinction between a nominative and an oblique case, whether dative or accusative, was no longer a mystery. Anyhow, and this is the real point at issue, the presence of such compounds as m a - m a, to-me-I, is in no way a proof that at the time of their formation people could not

distinguish between y u d h (s), nom., a fighter, and y u d h (am), acc., a fighter; and we must wait for more irrefragable evidence before admitting, what would under all circumstances be a most startling conclusion, namely, that the Aryan language was spoken for a long time without case-terminations, but with a complete set of personal terminations, both in the singular and the plural. For though it is quite true that the want of cases could only be felt in a sentence, the same seems to me to apply to personal terminations of the verb. The one, in most languages we know, implies the other, and the very question whether conjugation or declension came first is one of those dangerous questions which take something for

granted which has never been proved.

During all this time, according to Curtius, our Aryan language would have consisted of nothing but roots, used for nominal and verbal purposes, but without any purely derivative suffixes, whether verbal or nominal, and without declension. The only advance, in fact, made beyond the purely Chinese standard, would have consisted in a few combinations of personal pronouns with verbal stems, which combinations assumed rapidly a typical character, and led to the formation of a skeleton of conjugation, containing a present, an aorist with an augment, and a reduplicated perfect. Why, during the same period, nominal bases should not have assumed at least some case-terminations, does not appear; and it certainly seems strange that people who could say vak-ti, speak-he, vak-anti, speak-this-he, should not have been able to say vak-s, whether in the sense of speak-there, i. e., speech or speak-there, i. e., speaker. The next step which, according to Curtius, the

Arvan language had to make, in order to emerge from its purely radical phase, was the creation of bases, both verbal and nominal, by the addition of verbal and nominal suffixes to roots, both primary and secondary. Curtius calls this fourth the Period of the Formation of Themes. The suffixes are very numerous, and it is by them that the Aryan languages have been able to make their limited number of roots supply the vast materials of their dictionary. From bhar, to carry, they formed bhar-a, a carrier, but sometimes also a burden. In addition to bhar-ti, earry-he, they formed bhara-ti, meaning possibly carrying-he. The growth of these early themes may have been very luxuriant, and, as Professor Curtius expresses it, chiefly paraschematic. It may have been left to a later age to assign to that large number of possible synonyms more definite meanings. Thus from \$600, I carry, we have \$600, the act of carrying, used also in the sense of impetus (being carried away), and of provectue, i. e., what is brought in. Depos means carrying, but also violent, and lucrative: oferror, an instrument of carrying, means a bier : danerpa, a quiver, for carrying arrows. Poppos comes to mean a basket; paprot, a burden; popor, tribute.

All this is perfectly intelligible, both with regard to nominal and verbal themes. Curtius admits four kinds of verbal themes as the outcome of his Fourth Period. He had assigned to his Third Period the simple verbal themes to rel, and the reduplicated themes such as &&o-rt. To these were added, in the Fourth Period, the following four secondary themes:—

(1) πλίε-τ-(τ)-ι Sanskrit lipa-ti

(B) dash-c-(r) " laipa-ti

(3) čele-re-or Sanskrit li p-n a u-ti (4) čele-re-or "li p-n â-ti.

He also explains the formation of the subjunctive in analogy with bases such as lipa-ti, as derived from lip-ti.

Some scholars would probably feel inclined to add one or two of the more primitive verbal themes,

such as

limpa-ti rumpo limpana-ti λαμβώνε(τ)ι,

but all would probably agree with Curtius in placing the formation of these themes, both verbal and nomimal, between the radical and the latest inflectional period. A point, however, on which there would probably be considerable difference of opinion is this, whether it is credible, that at a time when so many nominal themes were formed,—for Curtius ascribes to this Fourth Period the formation of such nominal bases as

 $\lambda \delta \gamma - \rho$, intellect, $= \lim_{\lambda \delta \gamma - \rho} 1$ in tellect, $= \lim_{\lambda \delta \gamma - \rho} 1$ in parti $= \lim_{\lambda \delta \gamma - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in parti $= \lim_{\lambda \delta \delta - \rho} 1$ in partin $= \lim_{\lambda \delta \delta - \rho}$

the simplest nominal compounds, which we now call nominative and accusative, singular and plural, were still unknown; that people could say dhrish-numás, we dare, but not dhrish-nú-s, daring-he; that they had an imperative, dhrishnuhí, dare, but not a vocative, dhrishno? Curtius strongly holds to that opinion, but with regard to this period too, he does not seem to me to establish it by a regular and complete argument. Some arguments which he refers to occasionally have been answered before. Another, which he brings in incidentally, when dis-

cussing the abbreviation of certain suffixes, can hardly be said to carry conviction. After tracing the suffixes and and tar back to what he supposes to have been their more primitive forms, and and tara, he remarks that the dropping of the final vowel would hardly be conceivable at a time when there existed case-terminations. Still this dropping of the vowel is very common, in late historical times, in Lutin, for instance, and other Italian dialects, where it causes frequent confusion and heteroclitism. Thus the Augustan innocua was shortened in common pronunciation to innocua, and this dwindles down in Christian inscriptions to innox. In Greek, too, business of the diagraph; policy older than business older than business older than business.

Nor can it be admitted that the nominal suffixes have suffered less from phonetic corruption than the terminations of the verb, and that therefore they must belong to a more modern period (pp. 39, 40). In spite of all the changes which the personal terminations are supposed to have undergone, their connection with the personal pronouns has always been apparent, while the tracing back of the nominal suffixes, and, still more, of the case-terminations to their typical elements, forms still one of the greatest difficulties of comparative grammarians.²

Professor Curtius is so much impressed with the later origin of declenaion that he establishes one more period, the fifth, to which he assigns the growth of all compound verbal forms, compound stems, compound tenses, and compound moods, before e allows the first beginnings of declenaion, and the

Bruppacher, Landiere der Orbiechen Spraide, p. 48. Blichlur, Grundries der Lateinlichen Declination, p. 1.

^{2 &}quot;Tie Entstehung der Casus ist noch das allerdunksiste im welten Ber sich des indogermanischen Formunystens." Curtius, Chronologie, p. 71

formation even of such simple forms as the nominative and accusative. It is difficult, no doubt, to disprove such an opinion by facts or dates, because there are none to be found on either side; but we have a right to expect very strong arguments indeed, before we can admit that at a time when an acrist, like theseon, Sanskrit a-dik-sha-t was possible, that is to say, at a time when the verb as, which meant originally to breathe, had by constant use been reduced to the meaning of being; at a time when that verb, as a mere auxiliary, was joined to a verbal base in order to impart to it a general historical power; when the persons of the verb were distinguished by prenominal elements, and when the augment, no longer purely demonstrative, had become the symbol of time past, that at such a time people were still mable to distinguish, except by a kind of Chinese law of position, between "the father struck the child," and "the child struck the father." Before we can admit this, we want much stronger proofs than any adduced by Curtius. He says, for instance, that compound verbal bases formed with ya, to go, and afterwards fixed as causatives, would be inconceivable during a period in which accusatives existed. From nas, to perish, we form in Sanskrit n a sa-ya m i, I make perish. This, according to Curtius, would have meant originally, I send to perishing. Therefore nasa would have been, in the accusative, na am, and the causative would have been n a s a m y a m i, if the accusative had then been known. But we have in Latin 1 pessum dare, venum ire, and no one would say that compounds like cafleacio, liquefacio, putrefacio, were impossible after the first Aryan separation, or after that

still earlier period to which Curtius assigns the formation of the Aryan case-terminations. Does Professor Cartins hold that compound forms like Gothic nasi-da were formed not only before the Aryan separation, but before the introduction of case-terminations? I hold, on the contrary, that such really old compositions never required, nay never admitted, the accusative. We say in Sanskrit, dyu-gat, going to the sky, dyn-ksha, dwelling in the sky, without any case-terminations at the end of the first part of the compound. We say in Greek, σακίσ-ταλοι, not σάιοσwalus, mudodoros, not washaporos, spec-sors, mountainbred, and also speci-roops, mountain-fed. We say in Latin, agri-cola, not agrum-cola, fratri-cida, not fratrem-cida, vēgi-fugium, not regis-fugium. Are we to suppose that all these words were formed before there was an ontward mark of distinction between nominative and accusative in the primitive Arvan langaage? Such compounds, we know, can be formed at pleasure, and they continued to be formed long after the full development of the Aryan declension, and the same would apply to the compound stems of causal verbs. To say, as Curtius does, that composition was possible only before the development of declension, because when cases had once sprung up, the people would no longer have known the bases of nouns, is far too strong an assertion. In Sanskrit 1 the really difficult bases are generally sufficiently visible in the so-called Pada, cases, i. e., before certain terminations beginning with consonants, and there is besides a strong feeling of analogy in language, which would generally, though not always (for compounds are fre-

¹ Cl. Chumm, Die neusten Ferschungen unf dem Gebiet der Griechischen Gruposita, p. 5.

quently framed by false analogy), guide the framers of new compounds rightly in the selection of the proper nominal base. It seems to me that even with us there is still a kind of instinctive feeling against using nouns, articulated with case-terminations, for purposes of composition, although there are exceptions to that rule in ancient, and many more in modern languages. We can hardly realize to ourselves a Latin pontemfex, or pontisfer, still less ponsfex instead of pontifex, and when the Romans drove away their kings, they did not speak of a regisfugium or a regumfugium, but they took, by habit or by instinct, the base regi, though none of them, if they had been asked, knew what a base was. Composition, we ought not to forget, is after all only another name for combination, and the very essence of combination consists in joining together words which are not yet articulated grammatically. Whenever we form compounds, such as railway, we are still moving in the combinatory stage, and we have the strongest proof that the life of language is not capable of chronologi-There was a period in the growth of cal division. the Aryan language when the principle of combination preponderated, when inflection was as yet unknown. But inflection itself was the result of combination, and unless combination had continued long after inflection set in, the very life of language would have become extinct.

I have thus tried to explain why I cannot accept the fundamental fact on which the seven-fold division of the history of the Aryan language is founded, viz., that the combinatory process which led to the Aryan system of conjugation would have been impossible, if at the time nominal bases had already been articu-

lated with terminations of case and number. I see no reason why the earliest case-formations, I mean particularly the nominative and accusative in the singular, plural, and dual, should not date from the same time as the earliest formations of conjugation. The same process that leads to the formation of vak-ti, speak-he, would account for the formation of vak-s, speak-there, i. c., speaker. Necessity, which after all is the mother of all inventions, would much sooner have required the clear distinction of singular and plural, of nominative and accusative, than of the three persons, of the verbs. It is far more important to be able to distinguish the subject and the object in such sentences as "the son has killed the father," or "the father has killed the son," than to be able to indicate the person and tense of the verb. Of course we may say that in Chinese the two cases are distinguished without any outward signs, and by mere position; but we have no evidence that the law of position was preserved in the Aryan languages, after verbal inflection lmd once set in. Chinese dispenses with verbal inflection as well as with nominal, and an appeal to it would therefore prove either too much or too little.

At the end of the five periods which we have examined, but still before the Aryan separation, Curtius places the sixth, which he calls the Period of the Formation of Cases, and the seventh, the Period of Adverbs. Why I cannot bring myself to accept the late date here assigned to declension, I have tried to explain before. That adverbs existed before the great branches of Aryan speech became definitely separated has been fully proved by Professor Curtius, I only doubt whether the adverbial period can be

separated chromologically from the case period. I should say, on the contrary, that some of the adverbs in Sanskrit and the other Aryan languages exhibit the most primitive and obsolete case-terminations, and that they existed probably long before the system of case-terminations assumed its completeness.

If we look back at the results at which we have arrived in examining the attempt of Professor Curtius to establish seven distinct chronological periods in the history of the Aryan speech, previous to its separation into Sanskrit, Greek, Latin, Slavonic, Teutonic, and Celtic, I think we shall find two prin-

ciples clearly established: -

1. That it is impossible to distinguish more than three successive phases in the growth of the Aryan language. In the first phase or period the only materials were roots, not yet compounded, still less articulated grammatically, a form of language to us almost inconceivable, yet even at present preserved in the literature and conversation of millions of human beings, the Chinese. In that stage of language, "king rule man heap law instrument," would mean, the king rules men legally.

The second phase is characterized by the combination of roots, by which process one loses its independence and its accent, and is changed from a full and material into an empty or formal element. That phase comprehends the formation of compound roots, of certain nominal and verbal stems, and of the most necessary forms of declension and conjugation. What distinguishes this phase from the inflectional is the consciousness of the speaker, that one part of his word is the stem or the body, and all the rest its environment, a feeling analogous to that which we have when we speak of man-hood, man-ly, man-ful, man-kind, but which fulls us when we speak of man and men, or if we speak of mo-man, instead of mif-man. The principle of combination preponderated when inflection was as yet unknown. But inflection itself was the result of combination, and unless it had continued long after inflection set in, the very life of

language would have become extinct.

The third phase is the inflectional, when the base and the modificatory elements of words coalesce, lose their independence in the mind of the speaker, and simply produce the impression of modification taking place in the body of words, but without any intelligible reason. This is the feeling which we have throughout nearly the whole of our own language, and it is only by means of scientific reflection that we distinguish between the root, the base, the suffix, and the termination. To attempt more than this three-fold division seems to me impossible.

2. The second principle which I tried to establish was that the growth of language does not lend itself to a chronological division, in the strict sense of the word. Whatever forces are at work in the formation of languages, none of them ceases suddenly to make room for another, but they work on with a certain continuity from beginning to end, only on a larger or smaller scale. Inflection does not put a sudden end to combination, nor combination to juxtaposition. When even in so modern a language as English we can form by mere combination such words as manlike, and reduce them to manly, the power of combination cannot be said to be extinct, although it may no longer be sufficiently strong to produce new cases or new personal terminations. We may admit,

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in the development of the Aryan language, previous to its division, three successive strata of formation, a juriapositional, a combinatory, and an inflectional; but we shall have to confess that these strata are not regularly superimposed, but tilted, broken up, and convulsed. They are very prominent each for a time, but even after that time is over, they may be traced at different points, pervading the very latest formations of tertiary speech. The true motive power in the progress of all language is combination, and that power is not extinct even in our own time.

ON THE MIGRATION OF FABLES.

A LECTURE DELIVERED AT THE ROYAL IN-STITUTION, ON FRIDAY, JUNE 3, 1870.

"Count not your chickens before they be hatched," is a well-known proverb in English, and most people, if asked what was its origin, would probably appeal to La Fontaine's delightful fable, La Laitière et le Pet au Lait.\(^1\) We all know Perrette, lightly stepping along from her village to the town, carrying the milk-pail on her head, and in her day-dreams selling her milk for a good sum, then buying a hundred eggs, then selling the chickens, then buying a pig, fattening it, selling it again, and buying a cow with a calf. The calf frolies about, and kicks up his legs—so does Perrette, and, alas! the pail falls down, the milk is spilt, her riches gone, and she only hopes when she comes home that she may escape a flogging from her husband.

Did La Fontaine invent this fable? or did he merely follow the example of Sokrates, who, as we know from the Phaslon, cocupied himself in prison, during the last days of his life, with turning into verse some of the fables, or, as he calls them, the myths of Æsop.

1 La Fontaine, Folies, livre vil., fable 10.

^{*} Plumdon, 61, δε Μετά 30 του δεία, δεναφένια, Σει τέν πουχέν δέω, είπερ μέλλιε παιρτίες εξειώ, απεία μοθουα, ΔΕΑ το Σάγρου, και αύτός σύα ξε μοθολογιαίς, διά ταξειώ δές οδο προχείρους εξχον και ξετιστώμην αύθους τεύε Αξοιδεύου, κούτων δερίχου οξο πρώτοις δεύτεχων.

La Fontaine published the first six books of his fables in 1668, and it is well known that the subjects of most of these early fables were taken from Æsop, Phædrus, Horace, and other classical fabulists, if we may adopt this word "fabulists," which La Fontaine was the first to introduce into French.

In 1678 a second edition of these six books was published, enriched by five books of new fables, and in 1694 a new edition appeared, containing one additional book, thus completing the collection of his

charming poems.

of Perrette with the milk-pail.

The fable of Perrette stands in the seventh book, and was published, therefore, for the first time in the edition of 1678. In the preface to that edition La Fontaine says: "It is not necessary that I should say whence I have taken the subjects of these new fables. I shall only say, from a sense of gratitude, that I owe the largest portion of them to Pilpay the Indian sage."

If, then, La Fontaine tells us himself that he borrowed the subjects of most of his new fables from Pilpay, the Indian sage, we have clearly a right to look to India in order to see whether, in the ancient literature of that country, any traces can be discovered.

Sanskrit literature is very rich in fables and stories; no other literature can vie with it in that respect; nay, it is extremely likely that fables, in particular unimal fables, had their principal source in India. In the sacred literature of the Buddhists, fables held a most prominent place. The Buddhist preachers, addressing themselves chiefly to the people, to the un-

¹ Robert, Fables Inchites, des XIIIe, XIIIe, et XIVe Siècles; Paris, 1825 vol. i. p. eczxvil.

taught, the uncared for, the outcast, speke to them, as we still speak to children, in fables, in proverbs and parables. Many of these fables and parables must have existed before the rise of the Buddhist religion; others, no doubt, were added on the spur of the moment, just as Sokrates would invent a myth or fable whenever that form of argument seemed to him most likely to impress and convince his hearers. But Buddhism gave a new and permanent sanction to this whole branch of moral mythology, and in the sacred canon, as it was settled in the third century before Christ, many a fable received, and holds to the present day, its recognized place. After the fall of Buddhism in India, and even during its decline, the Brahmans claimed the inheritance of their enemies, and used their popular fables for educational purposes. The best known of these collections of fables in Sanskrit is the Pankatantra, literally the Pentateuch, or Pentamerone. From it and from other sources another collection was made, well known to all Sanskrit scholars by the name of Hitopadeza, i. e., Salutary Advice. Both these books have been published in England and Germany, and there are translations of them in English, German, French, and other languages.1

The first question which we have to answer refers to the date of these collections, and dates in the his-

Pantichetantra, Panf Bücher indischer Fohlen, aus dem Sanabrit übersetzt. Von Th. Bonley. Leipnig, 1859.

Hispanicas, with interlinear translation, grammatical analysis, and English translation, in Max Miller's Handbooks for the study of Sanskrit Lendon, 1864.

Hitemileen, eine alte intliede Fubeleommlung aus dem Sandrit zum unden Mal in des Deutsche übernitet. Von Max Miller. Leipzig, 1844.

¹ Pantackefentrum site Quinquepartitum, edidit I. G. L. Konigarten. Benna, 1848.

tory of Sanskrit literature are always difficult points. Fortunately, as we shall see, we can in this case fix the date of the Palkatantra at least, by means of a translation into ancient Persian, which was made about 550 years after Christ, though even then we can only prove that a collection somewhat like the Palkatantra must have existed at that time; but we cannot refer the book, in exactly that form in which we now possess it, to that distant period.

If we look for La Fontaine's fable in the Sanskrit stories of the Pankatantra, we do not find, indeed, the milkmaid counting her chickens before they are hatched, but we meet with the following story:—

"There lived in a certain place a Brahman, whose name was Syabhāvakripana, which means 'a born miser.' He had collected a quantity of rice by begging (this reminds us somewhat of the Buddhist mendicants), and after having dired off it, be filled a pot with what was left over. He hung the pot on a peg on the wall, placed his couch beneath, and looking intently at it all the night, he thought, 'Ah, that pot is indeed brimful of rice. Now, if there should be a famine, I should certainly make a humired rupees by it. With this I shall buy a couple of goats. They will have young ones every six months, and thus I shall have a whole herd of goats. Then, with the goats, I shall boy cows. As soon as they have calved, I shall sell the calves, Then, with the cows, I shall hoy buffalous; with the buffalous, mures. When the mures have fooled, I shall have plenty of horses; and when I sell them, plenty of gold. With that gold I shall get a house with four wings. And then a Brahman will come to my house, and will give me his beautiful daughter, with a large dowry. She will have a son, and I shall call him Somasurman. When he is old enough to be danced on his father's knee, I shall sit with a book at the back of the stable, and while I am reading the boy will see me, jump from his mother's lap, and run towards me to be danced on my knee. He will come too near the horse's hoof, and, full of anger, I shall call to my wife, "Take the huby; take him!" But she, distracted by some domestic work does not hear me. Then I get up, and give her

such a kick with my foot. While he thought this, he gave a kick with his foot, and broke the pot. All the rice fell over him, and made him quite white. Therefore, I say, 'He who makes foolish plans for the future will be white all over, like the father of Sommarman.' ''!

I shall at once proceed to read you the same story, though slightly modified, from the Hitopadesa.³ The Hitopadesa professes to be taken from the Pankatantra and some other books; and in this case it would seem as if some other authority had been followed. You will see, at all events, how much freedom there was in telling the old story of the man who built eastles in the air.

"In the town of Devikotta there lived a Briliman of the name of Devasarman. At the feast of the great equinox he received a plate full of rice. He took it, went into a potter's shop, which was full of crockery, and, overcome by the heat, he lay down in a corner and began to doze. In order to protect his plats of rice, he kept a stick in his hand, and began to think, ' Now, if I sell this plate of rice, I shall receive ten cowrise (kapardaka). I shall then, on the spot, buy pots and plates, and after having increased my capital again and again, I shall buy and sell betel muts and dresses till I become enormously rich. Then I shall marry four wives, and the youngest and prettiest of the four I shall make a great pet of. Then the other wives will be so angry, and begin to quarrel. But I shall be in a great rage, and take a stick, and give them a good florging.1 While he said this, he flung his stick away; the plate of rice was smashed to pieces, and many of the pots in the shop were broken. The potter, hearing the noise, ran into the shop, and when he saw his pots broken, he gave the Brahman a good scolding, and drove him out of his shop. Therefore I say, "He who rejoines over plans for the future will come to griaf, like the Britman who broke the pots." "

In spite of the change of a Brahman into a milkmaid, no one, I suppose, will doubt that we have here

1 Palikatonica, v. 10.

^{*} Hitogusdene, ed. Max Müller, p. 120; German translation, p. 159.

in the stories of the Pankatantra and Hitopadesa the first germs of La Fontaine's fable. But how did that fable travel all the way from India to France? How did it doff its Sanskrit garment and don the light dress of modern French? How was the stupid Brahman born again as the brisk milkmaid, "cotillon simple et souliers plats?"

It seems a startling case of longevity that while languages have changed, while works of art have perished, while empires have risen and vanished again, this simple children's story should have lived on, and maintained its place of honor and its undisputed sway in every school-room of the East and every nursery of the West. And yet it is a case of longevity so well attested that even the most skeptical would bardly venture to question it. We have the passport of these stories viséed at every place through which they have passed, and, as far as I can judge, parfaitement on regle. The story of the migration of these Indian fables from East to West is indeed wonderful; more wonderful and more instructive than many of these fables themselves. Will it be believed that we, in this Christian country and in the nineteenth century, teach our children the first, the most important lessons of worldly wisdom, may, of a more than worldly wisdom, from books borrowed from Buddhists and Brahmans, from heretics and idolaters, and that wise words, spoken a thousand, nay, two thousand years ago, in a lonely village of India, like precious seed scattered broadcast all over the world, still bear fruit a hundred and a thousand-fold in that soil which is the most precious before God and man the soul of a child? No lawgiver, no philosopher,

¹ Note A, page 183.

has made his influence felt so widely, so deeply, and so permanently as the author of these children's fables. But who was he? We do not know. His name, like the name of many a benefactor of the human race, is forgotten. We only know he was an Indian—a nigger, as some people would call him—and that he lived at least two thousand years ago.

No doubt, when we first hear of the Indian origin of these fables, and of their migration from India to Europe, we wonder whether it can be so; but the fact is, that the story of this Indo-European migration is not, like the migration of the Indo-European languages, myths, and legends, a matter of theory, but of history, and that it was never quite forgotten either in the East or in the West. Each translator, as he handed on his treasure, seems to have been anxious to show how he came by it,

Several writers who have treated of the origin and spreading of Indo-European stories and fables, have mixed up two or three questions which ought to be treated each on its own merits.

The first question is whether the Aryans, when they broke up their pro-ethnic community, carried away with them, not only their common grammar and dictionary, but likewise some myths and legends which we find that Indians, Persians, Greeks, Romans, Celts, Germans, Slaves, when they emerge into the light of history, share in common? That certain deities occur in India, Greece, and Germany, having the same names and the same character, is a fact that can no longer be denied. That certain heroes, too, known to Indians, Greeks, and Romans, point to one and the same origin, both by their name and by their year ty.

history, is a fact by this time admitted by all whose admission is of real value. As heroes are in most eases gods in disguise, there is nothing very startling in the fact that nations, who had worshipped the same gods, should also have preserved some common legends of demi-gods or heroes, nay, even in a later phase of thought, of fairies and ghosts. The case, however, becomes much more problematical when we ask, whether stories also, fables told with a decided moral purpose, formed part of that earliest Aryan inheritance? This is still doubted by many who have no doubts whatever as to common Aryan myths and legends, and even those who, like myself, have tried to establish by tentative arguments the existence of common Aryan fables, dating from before the Aryan separation, have done so only by showing a possible connection between ancient popular saws and mythological ideas, capable of a moral application. To any one, for instance, who knows how in the poetical mythology of the Aryan tribes, the golden splendor of the rising sun leads to conceptions of the wealth of the Dawn in gold and jewels and her readiness to shower them upon her worshippers, the modern German proverh, Morgenstunde hat Gold im Munde, seems to have a kind of mythological ring, and the stories of benign fairies, changing everything into gold, sound likewise like an echo from the long-forgotten forest of our common Aryan home. If we know how the trick of dragging stolen cattle backwards into their place of hiding, so that their footprints might not lead to the discovery of the thief, appears again and again in the mythology of different Aryan nations, then the pointing of the same trick as a kind of proverb, intended to convey a moral lesson

and illustrated by fables of the same or a very similar character in India and Greece, makes one feel inclined to suspect that here too the roots of these fables may reach to a pro-ethnic period. Vestigia nulla retrorsum is clearly an ancient proverb, dating from a nomadic period, and when we see how Plato ("Aleibiades," i. 123) was perfectly familiar with the Æsopian myth or fable, - sara rov Alassaw pictor, he says - of the fox declining to enter the lien's cave, because all footsteps went into it and none came out, and how the Sanskrit Palikatantra (III. 14) tells of a jackal besitating to enter his own cave, because he sees the footsteps of a lion going in, but not coming out, we feel strongly inclined to admit a common origin for both fables. Here, however, the idea that the Greeks, like La Fontaine, had borrowed their fable from the Pankatantra would be simply absurd, and it would be much more rational, if the process must be one of borrowing, to admit, as Benfey ("Pantschatantra," i. 381) does, that the Hindus, after Alexander's discovery of India, borrowed this story from the Greeks. But if we consider that each of the two fables has its own peculiar tendency, the one deriving its lesson from the absence of backward footprints of the victims, the other from the absence of backward footprints of the lion himself, the admission of a common Aryan proverb such as " vestigia nulla retrorsum," would far better explain the facts such as we find them. I am not ignorant of the difficulties of this explanation, and I would myself point to the fact that among the Hottentota, too, Dr. Bleek has found a fable of the jackal declining to visit the sick lion, " because the traces of the animals

who went to see him did not turn back." 1 Withont, however, pronouncing any decided opinion on this vexed question, what I wish to place clearly before you is this, that the spreading of Aryan myths, legends, and fables, dating from a pro-ethnic period, has nothing whatever to do with the spreading of fables taking place in strictly historical times from India to Arabia, to Greece and the rest of Europe, not by means of oral tradition, but through more or less faithful translations of literary works. Those who like may doubt whether Zeus was Dyaus, whether Daphne was A ha nû, whether La Belle au Bois was the mother of two children, called L'Aurore and Le Jour,2 but the fact that a collection of fables was, in the sixth century of our era, brought from India to Persia, and by means of various translations naturalized among Persians, Arabs, Greeks, Jews, and all the rest, admits of no doubt or cavil. Several thousand years have passed between those two migrations, and to mix them up together, to suppose that Comparative Mythology has anything to do with the migration of such fables as that of Perrette, would be an anachronism of a portentous character.

There is a third question, viz., whether besides the two channels just mentioned, there were others through which Esstern fables could have reached Europe, or Æsopian and other European fables have been transferred to the East. There are such channels, no doubt. Persian and Arab stories, of Indian origin, were through the crusaders brought back to Constantinople, Italy, and France; Buddhist fables

1 Aculemy, vol. v. p. 349.

¹ Hottentot Fables and Tales, by Dr. W. H. I. Bleck, London, 1894, p. 10.

were through Mongolian conquerors (13th century) carried to Russia and the eastern parts of Europe. Greek stories may have reached Persia and India at the time of Alexander's conquests and during the reigns of the Diadochi, and even Christian legends may have found their way to the East through missionaries, travellers, or slaves.

Lastly, there comes the question, how far our common human mature is sufficient to account for coincidences in beliefs, customs, proverbs, and fables, which, at first sight, seem to require un historical explanation. I shall mention but one instance. Professor Wilson ("Essays on Sanskrit Literature," i. p. 201) pointed out that the story of the Trojan horse occurs in a Hindu tale, only that instead of the horse we have an elephant. But he rightly remarked that the coincidence was accidental. In the one case, after a siege of nine years, the principal heroes of the Greek army are concealed in a wooden horse, dragged into Troy by a stratagem, and the story ends by their falling upon the Trojans and conquering the city of Priam. In the other story a king bent on securing a son-inlaw, had an elephant constructed by able artists, and filled with armed men. The elephant was placed in a forest, and when the young prince came to hunt, the armed men sprang out, overpowered the prince and brought him to the king, whose daughter he was

i Die Marchen des Sählin-här, or Talus of un Euchantel Corpue, translated from Kalanak into German by B. Jülg, 1868. (This is based on the Veifila pa fika vintanti.) Die Geschichte des Arthech-Roelech Chen, translated from Mongolian by Dr. B. Jülg, 1888. (This is based on the Sinh has annad vättims arti.) A Mongolian translation of the Kalifa and Dimunh, is ascribed to Melik Said Iftihhar eddin Mohammed hen Abon Nasr, who diel a. p. 1280. See Barbier de Meynard, "Description de la Ville de Kazvin," Jeurnal Asiatique, 1857, p. 284; Lancereau, Prachestaru, p. xxv.

to marry. However striking the similarity may seem to one unaccustomed to deal with ancient legends, I doubt whether any comparative mythologist has postulated a common Aryan origin for these two stories. They feel that, as far as the mere construction of a wooden animal is concerned, all that was necessary to explain the origin of the idea in one place was present also in the other, and that while the Trojan horse forms an essential part of a mythological cycle, there is nothing truly mythological or legendary in the Indian story. The idea of a hunter disguising himself in the skin of an animal, or even of one animal assuming the disguise of another,1 are familiar in every part of the world, and if that is so, then the step from hiding under the akin of a large animal to that of hiding in a wooden animal is not very great.

Every one of these questions, as I said before, must be treated on its own merits, and while the traces of the first migration of Aryan fables can be rediscovered

I Plato's expression, "As I have put on the lim's skin" (Kruryles, 411), seems to show that he knew the fable of an animal or a man having assumed the lion's skin without the lion's courage. The proverties a man Krasioc seems to be applied to men beasting before people who have no means of judging. It presupposes the story of a donkey appearing in a lion's skin.

A similar idea is expressed in a table of the Paskintantra (IV, 3) where a dyer, not being rich enough to feed his dealery, puts a figure skin on him. In this diagnoss the dealery is allowed to ream through all the certifields without being melisted, till one day he see a female doubley, and begins to bray. Thereupes the swarrs of the field kill him.

In the Hitopaless (III. 3) the sumn fable occurs, only that there it is the keeper of the field who on purpose disguises himself as a she-donkey, and

when he hours the tiger bray, kills him.

In the Chinese Avadanse, translated by Similales Julier (vol. it. p. iii), the duskey takes a lion's skin and frightens everybody, till he begins to

bray, and is recognized as a donkey-

In this case it is again quite clear that the Grocks did not borrow their fable and proverb from the Pankatantra; but it is not so easy to determine positively whether the fable was carried from the Greeks to the East, or whether it arose independently in two places.

only by the most minute and complex inductive processes, the documents of the latter are to be found in the library of every intelligent collector of books. Thus, to return to Perrette and the fables of Pilpay, Huet, the learned bishop of Avranches, the friend of La Fontaine, had only to examine the prefaces of the principal translations of the Indian fables in order to track their wanderings, as he did in his famous "Traite de l'Origine des Romans," published at Paris in 1670, two years after the appearance of the first collection of La Fontaine's fables. Since his time the evidence has become more plentiful, and the whole subject has been more fully and more profoundly treated by Sylvestre de Sacy, Loiseleur Deslongchamps,2 and Professor Benfey.3 But though we have a more accurate knowledge of the stations by which the Eastern fables reached their last home in the West, Bishop Huet knew as well as we do that they came originally from India through Persia by way of Bagdad and Constantinople.

In order to gain a commanding view of the countries traversed by these fables, let us take our position at Bagdad in the middle of the eighth century, and watch from that central point the movements of our literary caravan in its progress from the far East to the far West. In the middle of the eighth century, during the reign of the great Khalif Almansur, Abdalah ibn Almekaffa wrote his famous collection of fables, the "Kalila and Dimnah," which we still possess.

² Leiszleur Desiongehausps, Essei sur les Fahles Indiannes, et sur leur Introduction en Europe. Paris, 1808.

* Pontechatonica, Funf Bächer indischer Faheln, Mürchen und Ersthlungen, mit Kinleitung. Von Th. Benfuy. Leipzig, 1823.

¹ Califor et Dimna, ou. Fables de Bitjoni, en Arabe, précedée d'un Mémoire sur l'origine de ce liere. Par Sylvestre de Suey. Paris, 1816.

The Arabic text of these fables has been published by Sylvestre de Sacy, and there is an English translation of it by Mr. Knatchbull, formerly Professor of Arabic at Oxford. Abdallah ibn Almokaffa was a Persian by birth, who after the fall of the Omeyvades became a convert to Mohammedanism, and rose to high office at the court of the Khalifs. Being in possession of important secrets of state, he became dangerous in the eyes of the Khalif Almansur, and was foully murdered. In the preface, Abdallah ibn Almokaffa tells us that he translated these fables from Pehlevi, the ancient language of Persia; and that they had been translated into Pehlevi (about two hundred years before his time) by Barzűyeh, the physician of Khosru Nushirvan, the King of Persia, the contemporary of the Emperor Justinian. The King of Persia had heard that there existed in India a book full of wisdom, and he had commanded his Vezier, Buzurjmihr, to find a man acquainted with the languages both of Persia and India. The man chosen was Barzûyeh. He travelled to India, got possession of the book, translated it into Persian, and brought it back to the court of Khosru. Declining all rowards beyond a dress of honor, he only stipulated that an account of his own life and opinions should be added to the book. This account, probably written by himself, is extremely curious. It is a kind of Religio Medici of the sixth century, and shows us a soul dissatisfied with traditions and formularies, striving after truth, and finding rest only where many other seekers after truth have found rest before and after him, in a life devoted to alleviating the sufferings of mankind.

There is another account of the journey of this

¹ See Weil, Guickichte der Chalifen, vol. liep. 84.

Persian physician to India. It has the sauction of Firdúsi, in the great Persian epic, the Shah Nameh, and it is considered by some 1 as more original than the one just quoted. According to it, the Persian physician read in a book that there existed in India trees or herbs supplying a medicine with which the dead could be restored to life. At the command of the king he went to India in search of those trees and herbs; but, after spending a year in vain researches, he consulted some wise people on the subject. They told him that the medicine of which he had read as having the power of restoring men to life had to be understood in a higher and more spiritual sense, and that what was really meant by it were ancient books of wisdom preserved in India, which imparted life to those who were dead in their folly and sins.1 Thereupon the physician translated these books, and one of them was the collection of fables, the " Kalila and Dimmah."

It is possible that both these stories were later inventions; the preface also by Ali, the son of Alshah Farési, in which the names of Bidpai and King Dabshelim are mentioned for the first time, is of later date. But the fact remains that Abdallah ibn Almokaffa, the author of the oldest Arabic collection of our fables, translated them from Pehlevi, the language of Persia at the time of Khosra Nushirvan, and that the Pehlevi text which he translated was believed to be a translation of a book brought from India in the middle of the sixth century. That Indian book could not have been the Palkatantra, as we now possess it, but must have been a much larger collection of fables,

I Benfey, p. 60.

² Cf. Bartann et Jouarph, ad. Bolamnade, p. 57.

for the Arabic translation, the "Kalilah and Dimnah," contains eighteen chapters instead of the five of the Pankatantra, and it is only in the fifth, the seventh, the eighth, the ninth, and the tenth chapters that we find the same stories which form the five books of the Pankatantra in the textus ornatior. Even in these chapters the Arabic translator omits stories which we find in the Sanskrit text, and adds others which are not to be found there.

In this Arabic translation the story of the Brahman and the pot of rice runs as follows: --

"A religious man was in the habit of receiving every day from the house of a merchant a certain quantity of butter (oil) and homey, of which, having eaten as much as he wanted, he put the rest into a jur, which he hung on a nail in a corner of the room, hoping that the jar would in time be filled. Now, as he was leaning back one day on his couch, with a stick in his hand, and the jar suspended over his head, he thought of the high price of butter and honey, and said to himself, 'I will sell what is in the jar, and buy with the money which I obtain for it ten goats, which, producing each of them a young one every five months, in addition to the produce of the kids as soon as they begin to bear, it will not be long before there is a large flock." He continued to make his calculations, and found that he should at this rate, in the course of two years, have more than four hundred goats. At the expiration of this term I will buy, said he, 'a hundred black eattle, in the proportion of a ball or a cow for every four goats. I will then purchase land, and hire workmen to plough it with the beasts, and put it into tillage, so that before five years are over I shall, no doubt, have realized a great fortune by the sale of the milk which the cows will give, and of the produce of my land. My next husiness will be to build a magnificent house, and engage a number of servants, both male and female; and, when my establishment is completed, I will marry the handsomest woman I can find, who, in due time becoming a mother, will present me with an helr to my poesessions, who, as he advances in age, shall receive the best musters that can be procured; and, if the progress which he makes

in learning is equal to my reasonable expectations, I shall be amply repaid for the pains and expense which I have bestowed upon him; but if, on the other hand, he disappoints my lunges, the rod which I have here shall be the instrument with which I will make him feel the displeasure of a justly-offended parent. At these words he suddenly raised the hand which held the stick towards the jar, and broke it, and the contents ran down upon his head and face." 3....

You will have observed the coincidences between the Arabic and the Sanskrit versions, but also a considerable divergence, particularly in the winding up of the story. The Brahman and the holy man both build their castles in the air; but, while the former kicks his wife, the latter only chastises his son. How this change came to pass we cannot tell. One might suppose that, at the time when the book was translated from Sanskrit into Pahlevi, or from Pehlevi into Arabic, the Sanskrit story was exactly like the Arabic story, and that it was changed afterwards. But another explanation is equally admissible, viz., that the Pehlevi or the Arabic translator wished to avoid the offensive behavior of the husband kicking his wife, and therefore substituted the son as a more deserving object of castigation.

We have thus traced our story from Sanskrit to Pehlevi, and from Pehlevi to Arabic; we have followed it in its migrations from the hermitages of Indian sages to the court of the kings of Persia, and from thence to the residence of the powerful Khalifs at Bagdad. Let us recollect that the Khalif Almansur, for whom the Arabic translation was made, was the contemporary of Abderrhaman, who ruled in Spain, and that both were but little anterior to Ha-

Kalife and Diana; or, the Fables of Bilgoni, translated from the Arabic. By the Rev. Wyndham Knatchbell, A. M. Oxford, 1815.

run al Rashid and Charlemagne. At that time, therefore, the way was perfectly open for these Eastern fables, after they had once reached Bagdad, to penetrate into the seats of Western learning, and to spread to every part of the new empire of Charlemagne. They may have done so, for all we know; but nearly three hundred years pass before these fables meet us again in the literature of Europe. The Carlovingian empire had fallen to pieces, Spain had been rescued from the Mohammedans, William the Conqueror had landed in England, and the Crusades had begun to turn the thoughts of Europe towards the East, when, about the year 1080, we hear of a Jew of the name of Symeon, the son of Seth, who translated these fables from Arabic into Greek. He states in his preface that the book came originally from India, that it was brought to the King Chosroes of Persia, and then translated into Arabic. His own translation into Greek must have been made from an Arabic MS, of the "Kalila and Dimna," in some places more perfect, in others less perfect, than the one published by De Sacy. The Greek text has been published, though very imperfectly, under the title of "Stephanites and Ichnelates." 1 Here our fable is told as follows (p. 837) :-

"It is said that a beggar kept some honey and butter in a jar close to where he slept. One night he thus thought within himself: 'I shall sell this honey and butter for however small a sum; with it I shall buy ten goats, and these in five months will produce as many again. In five years they will become four hundred. With them I shall buy one hundred cows, and with them I shall cultivate some land. And what with their calves

l Specimen Sapientia Indorum Vetarum, il est Liber Ethico-Politicus perretustus, dictus Arabica Kalllah vo Dimanh, Grace Stephanites et Ichnelates, muse primum Grace ex MS Cod, Holsteiniana presid com versione Latino, opera S. G. Storkii. Berolini, 1897.

and the harvests, I shall become rich in five years, and build a house with four wings, tornamented with gold, and hoy all kinds of servants, and marry a wife. She will give me a child, and I shall call him Beauty. It will be a boy, and I shall educate him properly; and if I see him lazy, I shall give him such a flogging with this stick. With those words he took a stick that was near him, struck the jar, and broke it, so that the honey and milk ran down on his beard."

This Greek translation might, no doubt, have reached La Fontaine; but as the French poet was not a great scholar, least of all a reader of Greek MSS., and as the fables of Symeon Seth were not published till 1697, we must look for other channels through which the old fable was carried along from East to West.

There is, first of all, an Italian translation of the "Stephanites and Ichnelates," which was published at Ferrara in 1583. The title is, "Del Governo de' Regni. Sotto morali essempi di animali ragionanti tra loro. Tratti prima di lingua Indiana in Agarena da Lelo Denno Saraceno. Et poi dall' Agarena nella Greca da Simeone Setto, philosopho Antiocheno. Et hora tradotti di Greco in Italiano." This translation was probably the work of Giulio Nuti.

There is, besides, a Latin translation, or rather a free rendering of the Greek translation by the learned Jesuit, Petrus Possinus, which was published at Rome in 1666.³ This may have been, and, according to some authorities, has really been one of the sources from which La Fontaine drew his inspirations. But though La Fontaine may have consulted this work

¹ This expression, a four-winged huma, accurs also in the Puddatantra. As it does not occur in the Arabic text, published by Du Sacy, it is clear that Symeon must have followed another Arabic text is which this adjective, belonging to the Senskrit, and no doubt to the Poblavi text, also, had been preserved.

⁴ Note B, p. 190.

³ Note (p. 171.

for other fables, I do not think that he took from it

the fable of Perrette and the milk-pail.

The fact is, these fables had found several other channels through which, as early as the thirteenth century, they reached the literary market of Europe, and became familiar as household words, at least among the higher and educated classes. We shall follow the course of some of these channels. First, then, a learned Jew, whose name seems to have been Joel, translated our fables from Arabic into Hebrew (1250 ?). His work has been preserved in one MS. at Paris, but has not yet been published, except the tenth book, which was communicated by Dr. Nenbaner to Benfey's journal, "Orient und Occident" (vol. i. p. 658). This Hebrew translation was translated by another converted Jew, Johannes of Capua, His translation was finished between into Latin. 1263-1278, and, under the title of "Directorium Humanie Vitæ," it became very soon a popular work with the select reading public of the thirteenth century.1 In the "Directorium," and in Joel's translation, the name of Sendebar is substituted for that of Bidpay. The "Directorium" was translated into German at the command of Eberhard, the great Duke of Würtemberg,2 and both the Latin text and the German translation occur, in repeated editions, among the rare books printed between 1480 and the end of the fifteenth century.3 A Spanish translation, founded both on the German and the Latin texts, appeared at Burgos in 1493; 4 and from these different sources flowed in the sixteenth century the Italian

² Note E, p. 193. 1 Note D. p. 102.

Benfay, Orient and Occident, vol. 1. p. 138.

^{*} Polit, vol. 1, p. 501. Its title is: "Exemplario contra les comilles y peligres del mundo," ibid. pp. 167, 168.

renderings of Firenzuola (1548) 1 and Doni (1552).2 As these Italian translations were repeated in French a and English, before the end of the sixteenth century, they might no doubt have supplied La Fontaine with subjects for his fables.

But, as far as we know, it was a third channel that really brought the Indian fables to the immediate notice of the French poet. A Persian poet, of the name of Nasr Aliah, translated the work of Abdallah ibn Almokaffa into Persian about 1150. This Persing translation was enlarged in the fifteenth century by another Persian poet, Husain ben All called el Vnez, under the title of "Anvari Sahaili." This name will be familiar to many members of the Indian Civil Service, as being one of the old Halleybury class-books which had to be construed by all who wished to gain high honors in Persia. This work, or

1 Discord degli animali, di Memer Agnolo Firenzado, in prese di M. A. F. (Fiorousa, 1543.)

2 La Moral Filosophia del Deni, trutta da gli antichi arrittori. Vinegia,

Trattati Diversi di Sendebar Indiano, Liompho morale. Vinegia, 1552. P. 45. Truttute Quarte.

A woman fells her husband to wait till her son is born, and says: -

"Stava uno Romito domestico ne i monti ili Brianza a far peniteuna e teneva alcane cassette d'api per suo spuiss, e di quella a suoi tempi na cavava il Mele, e di quello ne vendeva alcuna parte tal volta per i suoi besogni. Avenne che un' anno ne fu una gran carcatia, e egli attendeva a conservario, e egui giorno le guardava mille volte, e gii pareva cent' anni ogni hora, che e gli imbugiava a empierlo di Mele," esc

La Plaient et Pacitieux Discours des Animoux, acestiement traduict de

Tuscen en François. Lyan, 1856, par Gabriel Cottler.

Deux Lieres de Filmofie Fubuleure, le Premier Prin des Discours de M. Ange Firenands, le Second Extraict des Trairies de Sandebar Indien, par Pierre de La Ricey. Lyon, 1879.

The second book is a trunslation of the second part of Doni's Filosopia

Morale.

4 The Annar-i Subnill, or the Lights of Canopus, being the Persian versom of the Palies of Pilusy or the Book, Kutilah and Downah, rendered into Persian by Humin Va'is Wi-Kantiff, literally translated by E. B. Ensurich Hertford, 1854.

at least the first books of it, were translated into French by David Sahid of Ispahan, and published at Paris in 1644, under the title of "Livre des Lumières, ou, la Conduite des Rois, composé par la Sago Pilpay, Indien." This translation, we know, fell into the hands of La Fontaine, and a number of his most charming fables were certainly borrowed from it.

But Perrette with the milk-pail has not yet arrived at the end of her journey, for if we look at the "Livre des Lumières," as published at Paris, we find neither the milkmaid nor her prototype, the Brahman who kicks his wife, or the religious man who flegs his boy. That story occurs in the later chapters, which were left out in the French translation; and La Fontaine, therefore, must have met with his model elsewhere.

Remember that in all our wanderings we have not yet found the milkmaid, but only the Brahman or the religious man. What we want to know is who

first brought about this metamorphosis.

No doubt La Fontaine was quite the man to seize on any jewel which was contained in the Oriental fables, to remove the cumbersome and foreign-looking setting, and then to place the principal figure in that pretty frame in which most of us have first bocome acquainted with it. But in this case the charmer's wand did not belong to La Fontaine, but to some forgotten worthy, whose very name it will be difficult to fix upon with certainty.

We have, as yet, traced three streams only, all starting from the Arabic translation of Abdallah ibn Almokaffa, one in the eleventh, another in the twelfth, a third in the thirteenth century, all reaching Europe, some touching the very steps of the throne of Louis XIV., yet none of them carrying the leaf which contained the story of "Perrette," or of the "Brahman," to the threshold of La Fontaine's home. We must,

therefore, try again.

After the conquest of Spain by the Mohammedans, Arabia literature had found a new home in Western Europe, and among the numerons works translated from Arabic into Latin or Spanish, we find towards the end of the thirteenth century (1289) a Spanish translation of our fables, called "Callia & Dymma." In this the name of the philosopher is changed from Bidpai to Bundobel. This, or another translation from Arabic, was turned into Latin verse by Raimond de Béziers in 1313 (not published).

Lastly, we find in the same century another translation from Arabic straight into Latin verse, by Baldo, which became known under the name of " Æsopus

alter."2

From these frequent translations, and translations of translations, in the eleventh, twelfth, and thirteenth centuries, we see quite clearly that these Indian fables were extremely popular, and were, in fact, more widely read in Europe than the Bible, or any other book. They were not only read in translations, but having been introduced into sermons, homilies, and works on morality, they were improved upon, acclimatized, localized, moralized, till at last it is almost impossible to recognize their Oriental features under their homely disguises.

I shall give you one instance only,

Rabelais, in his "Gargantua," gives a long description how a man might conquer the whole world. At

the end of this dialogue, which was meant as a satire on Charles V., we read: -

There was there present at that time an old gentleman well experienced in the wars, a stern soldier, and who had been in many great harards, named Echephron, who, hearing this discourse, said: *J'ay grand pour que toute ceste entreprise sera semblable à la farce du pot que laier duquel un cordavanier se faisoit riche par resverie, puis le pot cassé, n'ent de quoy dispur, *

This is clearly our story, only the Brahman has, as yet, been changed into a shoemaker only, and the pot of rice or the jar of butter and honey into a pitcher of milk. Now it is perfectly true that if a writer of the fifteenth century changed the Brahman into a shocmaker, La Fontaine might, with the same right, have replaced the Brahman by his milkmaid. Knowing that the story was current, was, in fact, common property in the fifteenth century, nay, even at a much earlier date, we might really be satisfied after having brought the germs of "Perrette" within easy reach of La Fontaine. But, fortunately, we can make at least one step further, a step of about two centuries. step backwards brings us to the thirteenth century, and there we find our old Indian friend again, and this time really changed into a milkmaid. The book I refer to is written in Latin, and is called, "Dialogus Creaturarum optime moralizatus;" in English, the "Dialogue of Creatures moralized." It was a book intended to teach the principles of Christian morality by examples taken from ancient fables. It was evidently a most successful book, and was translated into several modern languages. There is an old translation of it in English, first printed by Rastell, and

t Disloyues of Creatures marshand, su. 4to, circ. 1517. It is green ally attributed to the press of John Rastell, but the opinion of Mr. Hasia

afterwards repeated in 1816. I shall read you from it the fable in which, as far as I can find, the milkmaid appears for the first time on the stage, surrounded already by much of that scenery which, four hundred years later, received its last touches at the hand of La Fontaine.

"Dianogo C. (p. cexxiii.) For us it is but minimised to trust to moche in surete, so it is but foly to hope to moche of vanyteys, for vayne be all subly things language to men, as earth Daved, Paul zeliil : Wher of it is tolds in fablys that a lady uppon a tyme delyvered to her mayden a galon of mythe to well at a cite, and by the way, as she sain and restlit her by a dycke tide, she began to thinke that with the money of the mylke she wold bye an honne, the which shulde bringe farth chekyns, and when they were growyn to hennys she wolde sell them and by piggis, and eschaunge them in to shope, and the shepe in to oxen, and so whan she was come to richessu she sholds be maried right worshipfully unto some worthy man, and thus the releveld. And whan she was thus mervelously comfortid and ravisshed inwardly in her secrete solace, thinkyage with howe greats laye she shuld be ledde towards the chirchs with her husbond on horsebacke, she sayde to her self : " Goo we, goo we. Sodaynlye she smote the ground with her foto, soyndyngs to sporre the horse, but her fote slypped, and she fell In the dyche, and there lay all her mylke, and so she was farre from her purpose, and never had that she hopid to have." !

wood, in his preface to the reprint of 1816, that the book was printed on the continent, is perhaps the correct one. (Quaritch's Catalogue, July, 1870.)

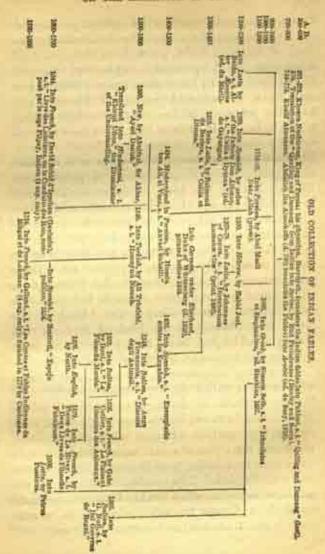
* The Latin text is more simple: "Undo com quedam domina dedicat ancille see far at venderer et les pertaret ad urben juxta foration regitare cepit quad de feie lartis enerit gallinan que faceret pullos ques muten in gallinas vendurer et porcellos contrat eneque mataret in over et jusce la foves. Sie que ditata contratauret em alique médit et s'eglerialatur. Et eum sie gloriareter et cogitaret com quanta gloria duccertur ad illum virum anper equam décando glo glo cepit pole perculere terrain quasi punyent equam estaminas. Sel more interiorian est per ejus et cerifit in forantion effendende lac. Sie enten mon habuit quoi se adepturam sperafect." Desegue Creature que getina escrelimas (accides de Nobam Pergaminus, supposed to have lived in the fhirteenth century). He quates Edymandus, in Gesle Rememoran. Fore efficient, "per Gerarlum cen in opphie Geselone lineaptum; mancre Del finitur est, Anno Damini, 1494."

Here we have arrived at the end of our journey, It has been a long journey across fifteen or twenty centuries, and I am afraid our following Perrette from country to country, and from language to language, may have tired some of my hearers. I shall, therefore, not attempt to fill the gap that divides the fable of the thirteenth century from La Fontaine. Suffice it to say, that the milkmaid, having once taken the place of the Brahman, maintained it against all comers. We find her as Dona Truhana, in the famous "Conde Lucanor," the work of the Infante Don Juan Manuel,1 who died in 1347, the grandson of St. Ferdinand, the nephew of Alfonso the Wise, though himself not a king, yet more powerful than a king; renowned both by his sword and by his pen, and possibly not ignorant of Arabic, the language of his enemies. We find her again in the "Contes et Nouvelles" of Bonaventure des Periers, published in the sixteenth century, a book which we know that La Fontaine was well acquainted with. We find her after La Fontaine in all the languages of Europe.2

You see now before your eyes the bridge on which our fables came to us from East to West. The same bridge which brought us Perrette brought us hundreds of fables, all originally sprung up in India, many of them carefully collected by Buddhist priests, and preserved in their sacred canon, afterwards handed on to the Brahminic writers of a later age, carried by Barzûyeh from India to the court of

¹ Note I. p. 197.

^{\$} My learned German translator, Dr. Fell's Liebrecht, says in a note: "Other books in which our story appears before La Fontains are Especial by Burkhard Waldis, ed. H. Kurz, Leipzig, 1882, il. 177; note to Des Bettlers Kaufmannschaft; and Conterley, in Kirchoff's Wendownath, v. 44, note to L III, Vergebone Anabley reich enterden (Bild des liter Vereins zu Stuttg, No. 591.



Persia, then to the courts of the Khalifs at Bagdad and Cordova, and of the emperors at Constantinople. Some of them, no doubt, perished on their journey, others were mixed up together, others were changed till we should hardly know them again. Still, if you once know the eventful journey of Perrette, you know the journey of all the other fables that belong to this Indian cycle. Few of them have gone through so many changes, few of them have found so many friends, whether in the courts of kings or in the huts of beggars. Few of them have been to places where Perrette has not also been. This is why I selected her and her passage through the world as the best illustration of a subject which otherwise would require a whole course of lectures to do it justice.

But though our fable represents one large class or cluster of fables, it does not represent all. There were several collections, besides the Pankatantra, which found their way from India to Europe. The most important among them is the "Book of the Seven Wise Masters, or the Book of Sindbad," the history of which has lately been written, with great learning and ingenuity, by Signor Comparatti.

These large collections of fables and stories mark what may be called the high roads on which the literary products of the East were carried to the West. But there are, beside these high roads, some smaller, less trodden paths on which single fables, sometimes mere proverbs, similes, or metaphors, have come to us from India, from Persepolis, from Damascus and Bagdad. I have already alluded to the powerful influence which Arabic literature exercised on Western Europe through Spain. Again, a most

¹ Ricercha interest at Libro di Stadikad. Milano, 1869.

active interchange of Eastern and Western ideas took place at a later time during the progress of the Crusades. Even the inroads of Mongolian tribes into Russia and the East of Europe kept up a literary bartering between Oriental and Occidental nations.

But few would have suspected a Father of the Church as an importer of Eastern fables. Yet so

it in.

At the court of the same Khalif Almansur, where Abdallah ibn Almokaffa translated the fables of Calila and Dimna from Persian into Arabic, there lived a Christian of the name of Sergius, who for many years held the high office of treasurer to the Khalif. He had a son to whom he gave the best education that could then be given, his chief tutor being one Cosmas, an Italian monk, who had been taken prisoner by the Saracens, and sold as a slave at Bugdad. After the death of Sergius, his son succeeded him for some time as chief councillor (πρωτοσύμβουλοι) to the Khalif Almansur. Such, however, had been the influence of the Italian monk on his pupil's mind, that he suddenly resolved to retire from the world, and to devote himself to study, meditation, and pious works. From the monastery of St. Saba, near Jerusalem, this former minister of the Khalif issued the most learned works on theology, particularly his " Exposition of the Orthodox Faith." He soon became the highest authority on matters of dogma in the Eastern Church, and he still holds his place among the saints both of the Eastern and Western Churches. His name was Joannes, and from being born at Damascus, the former capital of the Khalifs, he is best known in history as Joannes Damascenus, or St. John of Damascus. He must

have known Arabic, and probably Persian; but his mastery of Greek carned him, later in life, the name of Chrysorrhoas, or Gold-flowing. He became famous as the defender of the sacred images, and as the determined opponent of the Emperor Leo the Isaurian, about 726. It is difficult in his life to distinguish between legend and history, but that he had held high office at the court of the Khalif Almansar, that he holdly opposed the iconoclastic policy of the Emperor Leo, and that he wrote the most learned theological works of his time, cannot be easily questioned.

Among the works ascribed to him is a story called "Barlaam and Joasaph." There has been a fierce controversy as to whether he was the author of it or not. Though for our own immediate purposes it would be of little consequence whether the book was written by Joannes Damascenus or by some less distinguished ecclesiastic, I must confess that the arguments hitherto adduced against his authorship seem to me very weak.

The Jesuits did not like the book, because it was

1 The Greek text was first published in 1832 by Holssonnda, in his cinecidets Green, vol. iv. The title, as given in some MSS, is a Toropia φερφέν λετ δε νόν δεδοτίσει των Αλδοίσων χώρου, τὰς Τελίκο Ασγωσίνει, τρὸς τὰν κρίων κόλο μετεκράτεια διά Τωπενών νού μεταγρά (other MSS, τουλ, αγγράφωσια παρά ττο άγρου απόλο Τωπενών του Δερασιανού), δεδρός τουλού καὶ δερασιαμούς του Δερασιανού απόλο απόλο από δερασιαμούς του Δερασιανού απόλο δεδρός τουλού καὶ δερασιαμούς του Δερασιανού απόλο δεδρός τουλού καὶ δερασιανού απόλο δεδρός τουλού καὶ δερασιανού απόλο δεδρός τουλού δερασιανού στου Δερασιανού δερα

At the end the author says: 'Reg fide to wine for expected Myon, he ents decrease data persidence, author defined mad for a distance of expected particles of the property of the same of the same of the property of the same of the same

laxiii. pp. 176-202.

a religious novel. They pointed to a passage in which the Holy Ghoat is represented as proceeding from the Father "and the Son," as incompatible with the creed of an Eastern ecclesiastic. That very passage, however, has now been proved to be sparious; and it should be borne in mind, besides, that the controversy on the procession of the Holy Ghost from the Father and the Son, or from the Father through the Son, dates a century later than Jeannes. The fact, again, that the anthor does not mention Mohammedanism,1 proves nothing against the authorship of Joannes, because, as he places Barlaam and Jousaph in the early centuries of Christianity, he would have rained his story by any allusion to Mohammed's religion, then only a hundred years old. Besides, he had written a separate work, in which the relative merits of Christianity and Mohammedanism are discussed. The prominence given to the question of the worship of images shows that the story could not have been written much before the time of Joannes Damascenus, and there is nothing in the style of our author that could be pointed out as incompatible with the style of the great theologian. On the contrary, the author of "Barlaam and Joasaph" quotes the same authors whom Joannes Damascenus quotes most frequently - e. g., Basilius and Gregorius Nazianzenus. And no one but Joannes could have taken long passages from his own works without saying where he borrowed them.2

1 Littre, Journal des Savants, 1805, p. 337.

⁵ The Martyrologium Romanum, whatever his authority may be, states distinctly that the acts of Barlson and Josephal were written by Sanctus Joannes Damascenus. "Apud Indos Persis finitimos sanctorum Bariaam et Jemplat, quorum netus mirandos sanetus Joannes Damascenus conacripait." See Leonis Allatti Prolegomena, in Jonnais Domesceni Opera,

The story of "Barlaam and Jossaph" — or, as he is more commonly called, Jossaphat — may be told in a few words: "A king in India, an enemy and persecutor of the Christians, has an only son. The astrologers have predicted that he would embrace the new doctrine. His father, therefore, tries by all means in his power to keep him ignorant of the miscries of the world, and to create in him a taste for pleasure and enjoyment. A Christian hermit, however, gains access to the prince, and instructs him in the doctrines of the Christian religion. The young prince is not only baptized, but resolves to give up up all his carthly riches; and after having converted his own father and many of his subjects, he follows his teacher into the desert."

The real object of the book is to give a simple exposition of the principal doctrines of the Christian religion. It also contains a first attempt at comparative theology, for in the course of the story there is a disputation on the merits of the principal religious of the world—the Chaldean, the Egyptian, the Greek, the Jewish, and the Christian. But one of the chief attractions of this manual of Christian theology consisted in a number of fables and parables with which it is enlivened. Most of them have been traced to an Indian source. I shall mention one only which has found its way into almost every literature of the world: 1—

"A man was pursued by a unicorn, and while he tried to flee from it, he fell into a pit. In falling he stretched out both his

ed. Lequien, vol. 1. p. xxvi. He adds: "Et Gennadius Patriarcha per Concil Florent, csp. 5: seg. frees 24 sel à Todory à arres vol Annerson \$45 states de vol fles Bertain sel Insedent vier Telles paperent Alpes."

¹ The story of the caskets, will known from the Merchant of Venice, occurs in Birdians and Josephat, though it is used there for a different purpose.

arms, and laid hold of a small tree that was growing on one side of the pit. Having gained a firm foeting, and holding to the tree, he fancied he was safe, when he saw two mice, a black and a white one, husy gnawing the root of the tree to which he was elinging. Looking down into the pit, he perceived a beered dragon with his mouth wide open, ready to devour him, and when examining the place on which his feet rested, the heads of four serpents glared at him. Then he looked up, and observed drops of hency falling down from the tree to which he clang. Suddenly the unicorn, the dragon, the mice, and the serpents were all fegutten, and his mind was intent only on catching the drops of sweet honcy trickling down from the tree."

An explanation is hardly required. The unicorn is Death, always chasing man; the pit is the world; the small tree is man's life, constantly gnawed by the black and the white mouse—i. s., by night and day; the four serpents are the four elements which compose the human body; the dragon below is meant for the jaws of hell. Surrounded by all these horrors, man is yet able to forget them all, and to think only of the pleasures of life, which, like a few drops of honey, fall into his mouth from the tree of life.

But what is still more curious is, that the author of "Bariaam and Josaphat" has evidently taken his very hero, the Indian Prince Josaphat, from an Indian source. In the "Lalita Vistara"—the life, though no doubt the legendary life, of Buddha—the father of Buddha is a king. When his son is born, the Brahman Asita predicts that he will rise to great glory, and become either a powerful king, or, remoncing the throne and embracing the life of a hermit

¹ Cf. Benfey, Puntschatanten, vol. L. p. 90 ; vol. ii. p. 528 ; Les Armonnas, Contes et Apologues indiens, par Stanislas Julien, L. pp. 132, 131; Gesta Remanueum, cap. 163; Hoosiyan Namah, cap. ic.; Grimm, Beatsche Myrhologie, pp. 758, 750; Liebrecht, Johrbacher for Rem. and Engl. Literatur, 1880.

become a Buddha.1 The great object of his father is to prevent this. He therefore keeps the young prince, when he grows up, in his garden and palaces, surrounded by all pleasures which might turn his mind from contemplation to enjoyment. More especially he is to know nothing of illness, old uge, and death, which might open his eyes to the misery and unreality of life. After a time, however, the prince receives permission to drive out; and then follow the four drives,2 so famous in Buddhist history. The places where these drives took place were commemorated by towers still standing in the time of Fa Hinn's visit to India, early in the fifth century after Christ, and even in the time of Hiouen Thrang, in the seventh century. I shall read you a short account of the three drives : 8 --

"One day when the prince with a large retinue was driving through the eastern gate of the city, on the way to one of his purks, he met on the read an old man, broken and decrepit. One could see the veins and musules over the whole of his body, his teeth chattered, he was covered with wrinkles, bald, and hardly able to utter hollow and unmelodious sounds. He was bent on his stick, and all his limbs and joints trembled. 'Who is that man?' said the prince to his coachman. 'He is small and weak, his flesh and his blood are dried up, his muscles stick to his skin, his head is white, his teeth chatter, his body is wasted away; leaning on his stick, he is hardly able to walk, stumbling at every step. Is there something peculiar in his family, or is this the common lot of all created beings?'

""Sir,' replied the coachman, 'that man is sinking under old age, his senses have become obtuse, suffering has destroyed his strength, and he is despised by his relations. He is without support and useless, and people have abandoned him, like a dead tree in a forest. But this is not peculiar to his family.

¹ Laliba Vistora, ed. Calcutt., p. 126.

² Ibid., p. 223;

⁸ See M. M.'s Chips from a German Workshop, Amet. ol., vol. 1 p. 207

In every creature youth is defeated by old age. Your father, your mother, all your relations, all your friends, will come to the

same state; this is the appointed end of all creatures.

"*Alast" replied the prince, "are creatures so ignorant, so weak and foolish as to be proud of the youth by which they are intoxicated, not seeing the old age which awaits them? As for me, I go away. Coachman, turn my chariot quickly. What have I, the future prey of old age — what have I to do with pleasure?" And the young prince returned to the city without

going to the park.

"Another time the prince was driving through the southern gate to his pleasure-garden, when he perceived on the road a man suffering from illness, parched with fever, his body wasted, covered with mad, without a friend, without a home, hardly able to breathe, and frightened at the sight of himself, and the approach of death. Having questioned his conclusia, and received from him the answer which he expected, the young prince said, "Alas! health is but the sport of a dream, and the fear of suffering must take this frightful form. Where is the wise man who, after having seen what he is, could any longer think of joy and pleasure?" The prince turned his chariot, and returned to the city.

"A third time be was driving to his pleasure-garden through the western gate, when he saw a dead body on the read, lying on a bier and covered with a cloth. The friends stood about crying, sobbing, tearing their hair, covering their heads with dust, striking their breasts, and uttering wild cries. The prince, again, calling his coachman to witness this painful scene, exclaimed, 'Oh, woe to youth, which must be destroyed by old age! Woe to this life, where a man remains so short a time! If these were no old age, no disease, no death; if these could be made captive forever!' Then, betraying for the first time his intentions, the young prince said, 'Let us turn hack, I must think how to accomplish deliverance.'

"A last meeting put an end to besitation. He was driving through the northern gate on the way to his pleasure-gardens, when he saw a mendleant, who appeared outwardly calm, subdied, looking downwards, wearing with an air of dignity his

religious vestment, and carrying an alms-bowl.

" Who is that man?' asked the prince.

"Sir," replied the ecachman, "this man is one of those who are called Bhikshus, or mendicants. He has renounced all pleasures, all desires, and leads a life of austerity. He tries to conquer himself. He has become a devotee. Without passion, without envy, he walks about asking for alms."

"" This is good and well said," replied the prince. "The life of a devotee has always been praised by the wise. It will be my refuge, and the refuge of other creatures; it will lead us to

a real life, to happiness and immortality."

"With these words the young prince turned his charlot, and seturned to the city."

If we now compare the story of Joannes of Damascus, we find that the early life of Josaphat is exactly the same as that of Buddha. His father is a king, and after the birth of his son, an astrologer predicts that he will rise to glory; not, however, in his own kingdom, but in a higher and better one; in fact, that he will embrace the new and persecuted religion of the Christians. Everything is done to prevent this. He is kept in a beautiful palace, surrounded by all that is enjoyable; and great care is taken to keep him in ignorance of sickness, old age. and death. After a time, however, his father gives him leave to drive out. On one of his drives he sees two men, one maimed, the other blind. He asks what they are, and is told that they are suffering from disease. He then inquires whether all men are liable to disease, and whether it is known beforehand who will suffer from disease and who will be free; and when he hears the truth, he becomes sad, and returns home. Another time, when he drives out he meets an old man with wrinkled face and shaking legs, bent down, with white hair, his teeth gone, and his voice faltering. He asks again what all this means, and is told that this is what happens

to all men; and that no one can escape old aga, and that in the end all men must die. Thereupon he returns home to meditate on death, till at last a hermit appears, and opens before his eyes a higher view of life, as contained in the Gospel of Christ.

No one, I believe, can read these two stories without feeling convinced that one was borrowed from the other; and as Fa Hian, three hundred years before John of Damasens, saw the towers which commemorated the three drives of Buddha still standing among the ruins of the royal city of Kapilavasta, it follows that the Greek father borrowed his subject from the Buddhist scriptures. Were it necessary, it would be easy to point out still more minute coincidences between the life of Josaphat and of Buddha, the founder of the Buddhist religion. Both in the end convert their royal fathers, both fight manfully against the assaults of the flesh and the devil, both are regarded as saints before they die, Possibly even a proper name may have been transferred from the sacred canon of the Buddhists to the pages of the Greek writer. The driver who conducts Buddha when he flees by night from his palace where he leaves his wife, his only son, and all his treasures, in order to devote himself to a contemplative life, is called Chandaka, in Burmese, Sanna.2 The friend and companion of Barlaam is called Zardan.4 Rei-

I Minayell, Melanger Asiaripuse, vi. 3, p. 884, remarks i "According to a legand in the Mahássasts of Yasas or Yasada (in a less complete form to be found in Schlefner, Kine tibetacks Lebendered subury Scigmonti, p. 247; Hardy, Musmit of Budhilos, p. 187; Bigandet, The Life or Legand of Gaudama, p. 113), a morehant appears in Yasada's leaves, the night-before he has the dream which induces then to leave his purcernal bonse, and proclaims to him the true destrine.

I Journal of the American Oriented Society, vol. iii. p. 21.

^{*} In some places ems might almost believe that Joannes Dumescenns did not only hear the story of Buddha, as he says, from the mouth of people

mund in his "Mémoire sur l'Inde," p. 91 (1849), was
the first, it seems, to point out that Youdast, mentioned by Massoudi as the founder of the Sabaean
religion, and Youssaf, mentioned as the founder of
Buddhism by the author of the "Kitáb-al-Fihrist,"
are both meant for Bodhisattva, a corruption quite
intelligible with the system of transcribing that name
with Persian letters. Professor Benfey has identified
Theudas, the sorcerer in "Barlaam and Joasaph,"
with the Devadatta of the Buddhist scriptures,1

How palpable these coincidences are between the two stories is best shown by the fact that they were pointed out, independently of each other, by scholars in France, Germany, and England. I place France first, because in point of time M. Laboulaye was the first who called attention to it in one of his charming articles in the "Débats." A more detailed com-

who had brought it to him from India, but that he had before him the very text of the Lolits Fisters. Thus in the account of the three or four drives we find indeed that the Buddhist canon represents Buddha as seeing on three successive drives, first an old, then a sick, and at last a dying man, while Joannes makes Joannah meet two man on his first drive, one maimed, the other blind, and an old man, who is murry dying, on his second drive. So far there is a difference which might best be explained by admitting the account given by Joannes Danniscems himself, viz: that the story was brought from India, and that it was simply told him by worthy and truthfol men. But, if it was so, we have here another instance of the tonacitywith which oral tradition is able to presurve the most minute points of the story. The old man is described by a long string of adjectives both in Greek and in Sanskrit, and many of them are strangely althe. The Greek year, old, corresponds to the Sanskrit gtran; greatmonerse, agod, is Sanskrit v riddhat sameoneou ve sposurer, shriveled in his face, is baltnikitakāya, the body covered with wrinkles; massiperes var eviden, weak in his knees, is pravedhayamanaa sarvangapratyangail, trembling in all his limbe; swycerspay, bent, is kub ga; surchimeees, gray, is palitakesa; ferreierres vois blieves, toothiers, is khamifadanta; specular take, stammering, is khurakhuravasaktakautha.

1 Zeitsehrift der Deutschen Morganilmiliehen Gesellschaft, vol. aufr p. 430.

\$ Debnts, 1859, 21 and 26 Juillet.

parison was given by Dr. Liebrecht.¹ And, lastly, Mr. Beal, in his translation of the "Travels of Fa Hian," called attention to the same fact — viz., that the story of Josaphat was borrowed from the "Life of Buddha." I could mention the names of two or three scholars besides who happened to read the two books, and who could not help seeing, what was as clear as daylight, that Joannes Damascenus took the principal character of his religious novel from the "Lalita Vistara," one of the sacred books of the Buddhists; but the merit of having been the first be-

longs to M. Laboulaye.

This fact is, no doubt, extremely curious in the history of literature; but there is another fact connected with it which is more than curious, and I wonder that it has never been pointed out before. It is well known that the story of "Barlaam and Josaphat" became a most popular book during the Middle Ages. In the East it was translated into Syriac(7), Arabic, Ethiopic, Armenian, and Hebrew; in the West it exists in Latin, French, Italian, German, English, Spanish, Bohemian, and Polish. As early as 1204, a King of Norway translated it into Icelandic, and at a later time it was translated by a Jesuit missionary into Tagala, the classical language of the Philippine Islands. But this is not all, Barlasm and Josaphat have actually risen to the rank of saints, both in the Eastern and in the Western chuches. In the Eastern church the 26th of August is the saints' day of Barlaam and Josaphat; in the

¹ Die Quellen des Bartaum und Josephat, in Jahrboch für romen, und

angl. Litteratur, vol. II. p. 214, 1866.

2 Travels of Fak-kion and Sung-gan, Buddhist Pilgrims from China to
India. (400 A. D. and 518 A. D.) Translated from the Chinese by Sunnel
Beal Louden, Trübner & Co. 1866.

YOL TY.

Roman Martyrologium, the 27th of November is as-

signed to them.

There have been from time to time misgivings about the historical character of these two saints. Leo Allatius, in his "Prolegomena," ventured to ask the question, whether the story of "Barlaam and Jesaphat" was more real than the "Cyropædia" of Xenophon, or the "Utopia" of Thomas More; but, en bon Catholique, he replied, that as Barlaam and Josephat were mentioned, not only in the Mennea of the Greek, but also in the Martyrologium of the Roman Church, he could not bring himself to believe that their history was imaginary. Billius thought that to doubt the concluding words of the author, who mys that he received the story of "Barlann and Josephat" from men incapable of falsehood, would be to trust more in one's own suspicions than in Christian charity, which believeth all things. Bellarminus thought he could prove the truth of the story by the fact that, at the end of it, the author himself invokes the two saints Barlaam and Josaphat! Leo Allatius admitted, indeed, that some of the speeches and conversations occurring in the story might be the work of Joannes Damascenus, because Josephat, having but recently been converted, could not have quoted so many passages from the Bible. But he implies that even this could be explained, because the Holy Ghost might have taught St. Josaphat what to say. At all events, Leo has no mercy for those "quibus omnia sub sanctorum nomine prodita male elent, quemadmodum de sanctis Georgio, Christophoro, Hippolyto, Catarina, allisque nusquam eos in rerum natura extitisse impudentissime nugantur.' The Bishop of Avranches had likewise his doubts

but he calmed them by saying: "Non pas que je veuille soustenir que tout en soit supposé: il y auroit de la témerité à desavouer qu'il y ait jamais est de Barlaam ni de Josaphat. Le témoignage du Martyrologe, qui les met au nombre des Saints, et leur intercession que Saint Jean Damascene reclame à la fin de cette histoire ne permettent pas d'en douter."

With us the question as to the historical or purely imaginary character of Josaphat has assumed a new and totally different aspect. We willingly accept the statement of Joannes Damascenus that the story of "Barlaam and Josaphat" was told him by men who came from India. We know that in India a story was current of a prince who lived in the sixth century n. C., a prince of whom it was predicted that he would resign the throne, and devote his life to meditation, in order to rise to the rank of a Buddha. The story tells us that his father did everything to prevent this; that he kept him in a palace secluded from the world, surrounded by all that makes life enjoyable; and that he tried to keep him in ignorance of sickness, old age, and death. We know from the same story that at last the young prince obtained permission to drive into the country, and that, by meeting an old man, a sick man, and a corpse, his eyes were opened to the unreality of life, and the vanity of this life's pleasures; that he escaped from his pulace, and, after defeating the assaults of all adversaries, became the founder of a new religion. This is the story, it may be the legendary story, but at all events the recognized story of Gautama Sakyamuni, best known to us under the name of Buddha.

If, then, Joannes Damascenus tells the same story,

¹ Littre, Journal des Samues, 1865, p. 337.

only putting the name of Josaph or Josaphat, i. e., Bodhisattva, in the place of Buddha; if all that is human and personal in the life of St. Josaphat is taken from the "Lalita Vistara" - what follows? It follows that, in the same sense in which La Fontaine's Perrette is the Brahman of the Pankatantra, St. Josaphat is the Buddha of the Buddhist canon, It follows that Buddha has become a saint in the Roman Church; it follows that, though under a different name, the sage of Kapilavastu, the founder of a religion which, whatever we may think of its dogma, is, in the purity of its morals, nearer to Christianity than any other religion, and which counts even now, after an existence of 2,400 years, 455,000,000 of believers, has received the highest honors that the Christian Church can bestow. And whatever we may think of the sanctity of saints, let those who doubt the right of Buddha to a place among them read the story of his life as it is told in the Buddhist canon. If he lived the life which is there described, few saints have a better claim to the title than Buddha; and no one either in the Greek or in the Roman Church need be ashamed of having paid to Buddha's memory the honor that was intended for St. Josaphat, the prince, the hermit, and the saint.

History, here as elsewhere, is stranger than fiction; and a kind fairy, whom men call Chance, has here, as elsewhere, remedied the ingratitude and injustice

of the world.

APPENDIX.

I are enabled to add here a short account of an important discovery made by Professor Benfey with regard to the Syriac translation of our Collection of Fahles. Doubts had been expressed by Sylvestre de Sacy and others, as to the existence of this translation, which was mentioned for the first time in Ebedjesu's catalogue of Syriac writers published by Abraham Ecchellensis, and again later by Assemani ("Biblioth. Orient," tom. iii. part 1, p. 219). M. Renan, on the contrary, had shown that the title of this translation, as transmitted to us, "Kalilag and Damnag." was a guarantee of its historical authenticity. As a final k in Pehlevi becomes h in modern Persian, a title such as "Kalilag and Danmag," answering to "Kalilak and Damnak" in Pehlevi, in Sauskrit "Karataka and Damanaka," could only have been borrowed from the Persian before the Mohammedan era. Now that the interesting researches of Professor Beufey on this subject have been rewarded by the happy discovery of a Syriac translation, there remains but one point to be cleared up, viz, whether this is really the translation made by Bud Periodeutes, and whether this same translation was made, as Ebedjesu affirms, from the Indian text, or, as M. Reman supposes, from a Pehlevi version. I insert the account which Professor Benfey himself gave of his discovery in the Supplement to the "Aligemeine Zeitung" of July 12, 1871, and I may add that both text and translation are nearly ready for publication (1875).

The oldest MS, of the Pantichatantra.

Gorrisons, July 6, 1871.

The account I am about to give will recall the novel of our celebrated compatriot Freytag (" Die verlorene Hand-

schrift," or "The Lost MS."), but with this essential difference, that we are not here treating of a creation of the imagination, but of a real fact; not of the MS. of a work of which many other copies exist, but of an unique specimen; in short, of the MS, of a work which, on the faith of one single mention, was believed to have been composed thirteen centuries ago. This mention, however, appeared to many critical scholars so untrustworthy, that they looked upon it as the mere result of confusion. Another most important difference is, that this search, which has lasted three years, has been followed by the happiest results; it has brought to light a MS, which, even in this century, rich in important discoveries, deserves to be ranked as of the highest value. We have acquired in this MS, the oldest specimen preserved to our days of a work, which, as translated into various languages, has been more widely disseminated and has had a greater influence on the development of civilization than any other work, excepting the Bible.

But to the point.

Through the researches, which I have published in my edition of the Pantachatantra, it is known that about the sixth century of our era, a work existed in India, which treated of deep political questions under the form of fables, in which the actors were animals. It contained various chapters, but these subdivisions were not, as had been hitherto believed, eleven to thirteen in number, but, as the MS, just found shows most clearly, there were at least twelve, perhaps thirteen or fourteen. This work was afterwards so entirely altered in India, that five of these divisions were separated from the other six or nine, and much enlarged, whilst the remaining ones were entirely set aside. This apparently curtailed, but really enlarged edi-

Pontschaluntra; Forf Bucker indischer Fobels, Marchen und Ernthfungen. Aus dem Sonsbrit überreitst mit Einleitung und Amarkangen, 2 Thelle, Leipzig, 1859; und particularly in the first part, the introduction, called "Unber das Indische Grundwerk, und demen Anadiscus, so wie über the Quellen und die Verhentung des Inhalts derselben."

tion of the old work, is the Sanskrit book so well known as the Pantschatantm, "The Five Books." It soon took the place, on its native soil, of the old work, causing the irreparable loss of the latter in India.

But before this change of the old work had been effected in its own land, it had, in the first half of the sixth century, been carried to Persia, and translated into Pehlevi under King Chosen Nuschirvan (531-579). According to the researches which I have described in my book already quoted, the results of which are fully confirmed by the newly discovered MS, it cannot be doubted that, if this translation had been preserved, we should have in it a faithful reproduction of the original Indian work, from which, by various modifications, the Pantschatantra is derived. But unfortunately this Pehlevi translation, like its Indian original, is irretrievably lost.

But it is known to have been translated into Arabic in the eighth century by a native of Persia, by name Abdallah ibn Almokaffa (d. 760), who had embraced Islamiam, and it acquired, partly in this language, partly in translations and retranslations from it (apart from the recensions in India, which penetrated to East, North, and South Asia,) that extensive circulation which has caused it to exercise the greatest influence on civilization in Western Asia, and throughout Europe.

Besides this translation into Pehlevi, there was, according to one account, another, also of the sixth century, in Syriac. This account we owe to a Nestorian writer, who lived in the thirteenth century. He mentions in his catalogue of authors a certain Bud Periodentes, who probably about 570 had to inspect the Nestorian communities in Persia and India, and who says that, in addition to other books which he names, "he translated the book Qalilag and Dannag" from the Indian."

Until three years ago, not the faintest trace of this old ¹ Cf. Assemant, Böllich, Orient, III. 7, 229, and Reman, in the Journal Mattyre, Chan. Serie, t. vii. 1856, p. 251. Syrian translation was to be found, and the celebrated Orientalist, Silvestre de Sacy, in the historical memoir which he prefixed to his edition of the Arabic translation, "Calila and Dimna" (Paris, 1816), thought himself justified in seeing in this mention a mere confusion between Barzüyeh, the Pehlevi translator, and a Nestorian Monk.

The first trace of this Syriae version was found in May, 1868. On the sixth of that month, Professor Bickell of Münster, the diligent promoter of Syrian philology, wrote to tell me that he had heard from a Syrian Archdeacon from Urumia, Jochannan bar Bäbisch, who had visited Münster in the spring to collect alms, and had returned there again in May, that, some time proviously, several Chaldman priests who had been visiting the Christians of St. Thomas in India, had brought back with them some copies of this Syriae translation, and had given them to the Catholic Patriarch in Eikosh (near Mossul). He had received one of these.

Though the news appeared so unbelievable and the character of the Syrian priest little calculated to inspire confidence in his statements, it still seemed to me of sufficient importance for me to ask my friends to make further inquiries in India, where other copies ought still to be in existence. Even were the result but a decided negative, it would be a gain to science. These inquiries had no effect in proving the truth of the archdeacon's assertions; but, as the same time, they did not disprove them. It would of course have been more natural to make inquiries among the Syrians. But from want of friends and from other causes, which I shall mention further on, I could hardly hope for any certain results, and least of all, that if the MS, really existed, I could obtain it, or a copy of it.

The track thus appeared to be lost, and not possible to be followed up, when, after the lapse of nearly two years, Professor Bickell, in a letter of February 22, 1870, drew my attention to the fact that the Chaldman Patriarch, Jussuf Ando, who, according to Jochannan bar Bablach, was in

possession of that translation, was now in Rome, as member of the Council summoned by the Pope.

Through Dr. Schöll of Weimar, then in Rome, and one Italian savant, Signor Ignazio Guidi, I was put into communication with the Patriarch, and with another Chaldsean priest, Bishop Qajjāt, and received communications, the latest of June 11, 1870, which indeed proved the information of Jochannan har Bähisch to be entirely untrustworthy; but at the same time pointed to the probable existence of a MS, of the Syriac translation at Mardin.

I did not wait for the last letters, which might have saved the discoverer much trouble, but might also have frustrated the whole inquiry; but, as soon as I had learnt the place where the MS might be, I wrote, May 8, 1870, exactly two years after the first trace of the MS, had been brought to light, to my former pupil and friend, Dr. Albert Socin of Basle, who was then in Asia on a scientific expedition, begging him to make the most careful inquiries in Mardin about this MS, and especially to satisfy himself whether it had been derived from the Arabian translation, or was independent of and older than the latter. We will let Dr. Socia, the discoverer of the MS, tell us himself of his efforts and their results.

"I received your letter of May 6, 1870, a few days ago, by Bagdad and Mossul, at Yncho on the Chaboras. You say that you had heard that the book was in the library at Mardin. I must own that I doubted seriously the truth of the information, for Oriental Christians always say that they possess every possible book, whilst in reality they have but few. I found this on my journey through the 'Christian Monotain,' the Tür el' 'Abedin, where I visited many places and monasteries but little known. I only saw Bibles in Estrangelo character, which were of value, nowhere profano books; but the people are so fanatical, and watch their books so closely, that it is very difficult to get sight of any thing; and one has to keep them in good humor. Unless after a long sojourn, and with the aid of bribery, there can

never be any thought of buying anything from a monastic library. Arrived in Mardin, I set myself to discover the book. I naturally passed by all Moslem libraries, as Syriac books only exist among the Christians. I settled at first that the library in question could only be the Jacobite Cloister, 'Der ez Zaferan,' the most important centre of the Christians of Mardin. I therefore sent to the Patriarch of Diarbekir for most particular introductions, and started for 'Der ez Zaferin,' which lies in the mountains, 51 hours from Mardin. The recommendations opened the library to me. I looked through four hundred volumes, without finding anything; there was not much of any value. On my return to Mardin, I questioned people right and left; no one knew anything about it. At length I summoned up courage one day, and went to the Chaldwan monastery. The different sects in Mardin are most bitter against each other, and as I unfortunately lodged in the house of an American missionary, it was very difficult for me to gain access to these Catholics, who were unknown to me. Luckily my servant was a Catholic, and could state that I had no proselytizing schemes. After a time I asked about their books; Missals and Gospels were placed before me; I asked if they had any books of Fables. 'Yes, there was one there.' After a long search in the dust, it was found and brought to me. I opened it, and saw at the first glance, in red letters, 'Qulilag and Damnag,' with the old termination g, which proved to me that the work was not translated from the Arabic 'Calila ve Dimnah.' You may be certain that I did not show what I felt. I soon laid the book quietly down. I had indeed before asked the monk specially for 'Kalila and Dimna,' and with some persistency, before I inquired generally for books of fables; but he had not the faintest suspicion that the book before him was the one so eagerly sought after. After about a weak or ten days, in order to arouse no suspicion. I sent a trustworthy man to borrow the book; but he was asked at once if it were for the 'Frengi den Prot' (Protestant), and my

confidant was so good as to deny it, 'No, it was for himself.' I then examined the book more carefully. Having
it safely in my possession, I was not alarmed at the idea
of a little hubbuls. I therefore made inquiries, but in all
secret, whether they would sell it. 'No, never,' was the
answer I expected and received, and the idea that I had
borrowed it for myself was revived. I therefore began to
have a copy made. But I was obliged to leave Mardin and
oven the neighboring Diarbekir, before I received the copy.
In Mardin itself the return of the book was loudly demanded, as soon as they knew I was having it copied. I
was indeed delighted when, through the kindness of friends,
post tot discriming rerum I received the book at Aleppa."

So far writes my friend, the fortunate discoverer, who, as early as the 19th of August, 1870, announced in a letter the happy recovery of the book. On April 20, 1871, he kindly sent it to me from Basle.

This is not the place to descant on the high importance of this discovery. It is only necessary to add that there is not the least doubt that it has put us in possession of the old Syrine translation, of which Ebedjesu speaks. There is only one question still to be settled, whether it is derived direct from the Indian, or through the Pehlevi translation? In either case it is the oldest preserved rendering of the original, now lost in India, and therefore of priceless value.

The fuller treatment of this and other questions, which spring from this discovery, will find a place in the edition of the text, with translation and commentary, which Professor Bickell is preparing in concert with Dr. Hoffman and myself.

THEODOR BENFEY.

NOTE A.

In modern times, too, each poet or fabulist tells the story as seems best to him. I give three recensions of the story of Perrette, copied from English schoolbooks.

THE MILEMAID.

A milkmaid who poised a full pail on her head,
Thus mused on her prespects in life, it is said:

Let me see, I should think that this milk will precure
One hundred good eggs or four-score, to be sure.

Well then, step z bit, it must not be forgotten, Some of these may be broken, and some may be rutten; But if twenty for accident should be detached. It will leave me just sixty sounds eggs to be hatched.

Well, sixty sound eggs — no, cound chickens I mean:
Of these some may die — we'll suppose seventeen;
Seventeen, not so many ! — say ten at the most,
Which will leave fifty chickens to boil or to roast.

But then there's their harley, how much will they need?

Why, they take but one grain at a time when they feed,
So that's a mere trifle; — now then, let me see,
At a fair market-price how much money there'll be.
Sis shillings a pair, five, four, three-and-six,
To prevent all mistakes that low price I will fix;
Now what will that make? Fifty chickens I said;
Fifty times three-and-six? — I'll ask brother Ned.

Oh! but stop, three-and-sixpence a pair I must sell them!

Well, a pair is a couple; now then let us tell them. A couple in fifty will go (my poor brain), Why just a score times, and five pairs will remain.

Twenty-five pairs of fowls, now how tirescene it is That I can't reckon up such money as this. Well there's no use in trying, so let's give a guess— I'll say twenty pounds, and it can be no less.

Twenty pounds I am certain will buy me a cow, Thirty geese and two turkeys, eight pigs and a sow; Now if these turn out well, at the end of the year I shall fill both my pockets with guiness, 'ils clear.

Forgetting her burden when this she had said, The maid superciliously tossed up her head, When, also for her prospects I her milkpail descended, And so all her schemes for the future were ended.

This moral, I think, may be safely attached —
"Reckon not on your chickens before they are hatched!"
JEFFERS TAYLOR.

FABLE.

A country maid was walking with a pail of milk upon her head, when she fell into the following train of thoughts: " The money for which I shall sell this will will enable me to increase my stock of eggs to three hundred. These eggs will bring at least two hundred and fifty chickens. The chickens will be fit to carry to market about Christmas, when poultry always hear a good price; so that by May-day I shall have money enough to buy me a new gown. Green? - let me consider - yes, green becomes my complexion best, and green it shall be. In this dress I will go to the fair, where all the young fellows will strive to have me for a partner; but I shall perhaps refuse every one of them, and with an air of distain toss from them." Charmed with this thought, she could not forbear acting with her head what thus passed in her mind, when down came the pail of milk, and with it all her fancied happiness. - From Guy's " British Snelling Book."

ALNASKER.

Almasker was a very idle fellow, that would never set his hand to work during his father's life. When his father died he left him to the value of a hundred pounds in Persian money. In order to make the best of it he laid it out in glasses and bottles, and the facest china. These he piled up in a large open basket at his feet, and leaned his back upon the wall of his shop in the

hope that many people would come in to buy. As he sat in this posture, with his ever upon the basket, he fell into an amusing train of thought, and talked thus to himself: "This basket," says be, "cost me a hundred pounds, which is all I had in the world. I shall quickly make two hundred of it by welling in retail. These two hundred shall in course of trade rise to ten thousand, when I will lay saide my trade of a glass-man, and turn a dealer in pearls and diamonds, and all sorts of rich stones. When I have got as much wealth as I can desire, I will purchase the finest house I can find, with lands, slaves, and horses. Then I shall set myself on the footing of a prince, and will ask the grand Vinier's daughter to be my wife. As soon as I have married her, I will buy her ten black servants, the youngest and best that can be got for money. When I have brought this princess. to my house, I shall take care to breed her in dus respect for To this end I shall confine her to her own rooms, make ber a short visit, and talk but little to her. Her mother will then come and bring her daughter to me, as I um scated on a sofa. The daughter, with tears in her eyes, will fling horself at my feet, and beg me to take her into my favor. Then will I, to impress her with a proper respect for my person, draw up my leg, and spurn her from me with my foot in such a manner that she shall fall down several paces from the sofa." Almasker was entirely absorbed with his ideas, and could not forbear acting with his foot what he had in his thoughts; so that, striking his basket of brittle ware, which was the foundation of all his grand hopes, he kicked his glasses to a great distance into the street, and broke them into a thousand pieces. - " Spectator." (From the "Sixth Book," published by the Scottish School Book Association, W. Collins & Co., Edinburgh).

NOTE B.

PERTSCH, in Benfey's "Orient und Occident," vol. ii. p. 261.
Here the story is told as follows: "Perche si conta che un certo
poner huomo hauca nicino a doue dormina, un mulino & del buturo, & una notte tra se pensando disse, lo uenderò questo mulino,
& questo buturo tanto per il meno, che lo comprerò diste capro.
Le quali mi figliaranno in cinquo mesi altre tante, & la cinque
anni multiplicheranno fino a quattro cento; Le quali barattero in
cento buol, & con essi seminarò una capagna, & insieme da figlia-

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oli loro, & dal frutto della terra in altri cinque anni, sarò oltre modo rioco, & faro na palagio quadro, adorato, & comprerò schiani una infinità, & prenderò moglie, la quale mi farà un figliuolo; & lo nominerò Pancalo, & lo farò ammaestrare come bisogna. Et se vedro che non si curi con questa bacchetta così il percoterò. Con che prendendo la bacchetta che gli era vicina, & hattendo di essa il vaso done era il buturo, e lo ruppe, & fuse il buturo. Dopo gli partori la moglie un figliuolo, e la moglie un di gli disse, habbi un poco cura di questo fanciullo o marito, fino che io no e torno da un seraigio. La quale essendo andata fu anco il marito chimnato dal Signore della terra, & tra tanto nanonne che una serpe sall sopra il fanciullo. Et vna donzella nicina, corsa la l'ucciss. Tornato il marito nide insanguito i' vecio, & pensando che costel l'hanesse ucciso, auanti che il nedesso, le diede sul capo, di un bastone, e l' uccise. Entrato poi, & sano trouando il figlinolo, & la serpe morta, si fu grandemente pentito, & piase amaramente. Così adunque i frettolosi in molin core errano." (Page 516.)

NOTE C.

This and some other extracts, from books not to be found at Oxford, were kindly copied for me by my late friend, E. Deutsch, of the British Museum.

⁴⁰ Georgii Pachymeris Michael Palasologus, sive Historia rerum a M. P. gestarum," ed. Petr. Possinus. Rome, 1666.

Appendix ad observationes Pachymerianas, Specimen Sapiantia Indorum veterum liber olim ex lingua Indica in Persicam a Persoe Medico: ex Persica in Arabicam ab Anonymo: ex Arablica in Graccam a Symeono Seth, a Petro Possino Societ. Iesu, povissimo e Gracca in Latinam translatus.

"Hule talia serio nuganti hand paulo cordatior mulier. Mihi videris, Spense, inquit, nostri cujusdam famuli egentissimi hominis similis ista inani provisione nimis remotarum et incerto eventu pendentium rerum. Is disruis mercodibus mellis ac butyri non magna copia collectà duobus ista vasis e terra coctili condiderat. Mox secum ita ratiocinans nocte quadam decebat: Mel ego istul ac butyrum quindecim minissum rendam denariis. Ex his decem Caprus eman. His mihi quinto mense totidem alias parient. Quinque annis gregem Caprurum facile quadringentarum confecero. Has commutare tune placet cum bobus centum, quibus

exarabo vim terre magnam et numerum tritlei maximum congeram. Ex fructibus hisce quinquennio multiplicaris, pecunim scilicet tantus existet modus, ut facile in locupletissimis numerer. Accedit dos uxoris quam latis opibus ditissiman nansciscar. Nascetur mihi filius quem jam nune decerno nominare Pancalum. Hune educabo liberalissime, ut nobilium nulli concedat. Qui si ubi adoleverit, ut juventus solet, contumacem se mihi præbeat, haud feret impune. Baculo enim hoc illum hoc modo feriam. Arreptum inter hæc dicendum lecto vicinum baculum per tenebras jactavit, casaque incurrens in dolia mellis et butyri juxta posita, confregit utrumque, ita ut in ejus etiam os barbamqua stillæ liquoris prosilirent; castera effusa et mixta pulveri prorsus corrumpercatur; ac fundamentum spei tantu, inopem et multum gementem momento destitueret.¹⁹ (Page 602.)

NOTE D.

"Directorium Himania Vita alias Parabolie Antiquorum Sapientum," fol. s. l. c. a. k. 4 (circ. 1480?): "Dicitque ollin quidam fuit heremits apud quendam regem. Cui rex providerat qualibet die pro ma vita. Seillest provisionem de sua coquina et vasculum de melle. Ille vero comedehat decocta, et reservabat mel in quodam vass suspenso super suum caput donce esset plenum. Erat autom mel percarum in illis diebus. Quadam vero die: dum jaceret in suo lecto elevato capite, respexit vas mellis quod super caput ei pendebat. Et recordatus quoniam mel de die in diem vendebatur pluris solito seu carius, et dixit in corde suo. Quum fuerit hoc vas plemun; vendam ipsum uno talento auri: de quo nihi emam decem oves, et anccessu temporis he oves facient filios et filias, et erunt viginti. Postea vero ipsis multiplicatis cum filis et filiabus in quatuor annis crunt quatuor centum. Tune de quibuslibet quatuor ovibus emam vaccam et bovem et terram. Et vaccus umitiplicabuntur la filiis, quorum mascalos accipiam milil in culturam terre, praeter id quod per cipiam de els de lacte et lana, donce non consummatis uliis quinque annis multiplicabuntur in tantum quod habebe mild magnas substantias et divitias, et ero a cunctis reputatus dives et honestus. Et edificabo mihi tune grandia et excellentia edificia pre omnibus meis vicinis et consauguinibus, itaque omnes de meis divitiis loquantur, nonne erit mihi illud jocundum, cum omnes homines milil reverentiam in omnibus locis exhiberat

Accipiam postea axorem de nobilibus terre. Camque eam cognovero, concipiet et pariet mihi fillum nobiliem et delectabilem eum bona fortuna et dei beneplacito qui crescet in scientia virture, et relinquam mihi per ipsum bonam memoriam post mei obitum et castigabo ipsum dictim: si mee recalcitraverit doctrine; ac mihi in ounibus erit obedienz, et si non: perentiam enm isto baclo et crecto baculo ad perentiendum percusait vas mellis et fregit ipsum et defluxit mel super capat ejus."

NOTE E.

"Das Buch der Weisheit der alter Weisen," Ulm, 1415. Here the story is given as follows:—

"Man sagt ex wohnet eins mals ein brader der dritten regel der got fast dienet, bei eins künigs hof, den versach der künig alle tag za nuff enthalt seines lebens ein kachen speiss und ein fleschlein mit honig, diser ass alle tag die speiss von der kuchen und den houig behielt er in viu irden fleschlein das hieng ob seiner petstat so lang biss es voll ward. Nun kum hald eins grosse teir in den honig und eins morgens friie lag er in seinem pett und each das honig in dem fleschlein ob seinem haubt hangen do fiel ym in sein gedanck die teure des honigs und fieng an mit flim selbs zo reden, wann diss fleschlein gantz vol honigs wirt so verkanff ich das umb fünff güldin, darum kauff ich mir zehen göter schaff und die machen also des jahrs lember, and dann werden eins jahrs zweistzig und die und das von yn kummen mag in zehen jaren werden tausent, dann kanff ich umb fier schaff ein ku und kauff dobei ochsen und ertrich die meren sich mit tren früchten und do nimb ich dann die frücht zu arbeit der licker. von den andern kijen und schaffen nimb ich milich und woll es das andre fiinff Jar fiirkommen so wird es sich allso meren das ich ein grosse hab und reightumb überkumen wird dann will ich mir selles kneckt und kellerin kanifen und bohe und hubsche buw ton, und darnach so nimm ich mir ein hubsch weils von einem edeln geschlecht die beschiaff ich mit kurtzweiliger lieb, so enplecht sie und gebirt mir ein schön glinkseligten sun und gottforchilgen, und der wirt wachen in lere und künsten und in weisshoit, durch den lass ich mir einen gåten leilmde nach meinem ted aber wird er nit folgig sein und meiner straff nit achten so wolt ich yn mit meinem stecken über sein rucken on erbernule gar hart schlahen, and nam sein stecken da mit man pflay das YOL, IV. 13

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pet zo muchen ym selbs zo zeigen wie freielich er sein san schlagen wilt und schifig das irden fass das ob seinem haubt hleng zu stücken dass ym das honig under sein antlit und in das pet troff und wurd ym von allen sein gedeneken nit dann das er sein antlit und pet weschen müst."

NOTE F.

This translation has lately been published by Don Paschal de Gayangos in the "Biblioteca de Autores Españoles," Madrid, 1860, vol. li. Here the story runs as follows (p.57):—

"Del religioso que vertió la miel et la manteca sobre su cabe-

ZÁ.

"Dijo la mujer: 'Dicen que un religioso babia cada dia limorna de casa de un mercader rice, pan é manteca é miel e otras cosas, et comia el pan é lo al condesaba, et ponia la miel é la manteca en un jurra, fasta quel a finchó, et tenia la jarra colvada à la cabecera de su cama. Et vino tiempo que encareció la miel é la manteca, et el religioso fabló nu dia consigo mismo, estando asentado en su cama, et dijo aní: Venderé cuanto está en esta jarra por tantos maravedis, é comparé con ellos diez cabras, et emprefiarse-han, é parirán á cabo de cinco meses; et fizo enenta de esta guisa, et fallé que en cinco años montarian bien cuatrocientas cabras. Desí dijo: Venderlas-he todas, et con el precio dellas compraré cien vacas, por cada cuatro cabezas una vaca, é. haberé simiente é sembraré con los bueyes, et aprovecharme-he da los becorros et de las fembras é de la leche é manteca, é de las misses habré grant haber, et labraré muy nobles casas, é compraré siervos é sierras, et esto fecho camrine-he con mua majer may ries, é fermosa, é de grant logar, é empreñaria-he de fijo varon, é uncerá complido de sus miembros, et criario-ho como a fijo de rey, é eastigarlo-he con esta vara, si non quisiere ser bueno é obediente.' E el deciendo esto, alzó la vara que tenia en la mano, et ferió en la olla que estaba colgada encima del, é quebrola, é czyóle la miel é la manteca sobre su cabeza," etc.

NOTE G.

SEE "Possies inédites du Moyen Âge," par M. Edélstand Du Méril. Paris, 1854. XVI. De Viro et Vase Diei (p. 239):— "Uxor ab antiquo fuit infecunda marito. Mesticiam (I. mostitiam) enjus empleas leniro vix (I. vir) huius.

His blandimentis solutur tristifti a mentis: Cur sie tristaris? Dolor est tuus omnis inanis: Pulchrus prolis eris satis amodo munero felix. Pro nihilo ducens conjunx luce verbula pradens, His verbis plane quod ait vir menstrat inane: Rebus inops quidam . . . (bone vir. tihi dicam) Vas elea plenum, longum quod retro per myum Legerat orando, loca per diversa vagando, Fune ligans ar(c)to, tecto[que] suspendit ab alto. Sio prastolatur tempus quo pluris ematur[atur] Qua locupleturi se sperat et arte beari. Talia dum captat, hee stultus inania jactat : Ecce potens factus, fuero cum talia nactus, Vinciar uxori quantum queo nobiliori: Tune sobelem gignam, se meque per omnia dignam, Cujus opus morum genus omne præibit avorum-Cui nisi tot vites fuerint insignia rite, Fustis hie absque mora feriet caput ejus et [h]ora. Quod dun narraret, dextramque minando levaret, Ut percussisset poerum quasi præsto faisset Vas in prædictum manus ejus dirigit ictum Servatumque sibi vas il[1]ico fregit olivi."

I owe the following extract to the kindness of M. Paul Meyer:—

Apologi Phædrii ez Iudicris I. Regnerii Belnensis doct. Medici, Divione, apud Petrum Palliot, 1645 in 12, 126 pages et de plus un index.

Le recoell se divise en deux partis, pars L, pars II. La fable en quest'en est à la page 32, pars I. fab. xxv.)

XXV.

Pagana et eius mercis emptor.

Pagana mulier, lac in olla fictili, Ova in canistro, rustici mercem penus, Ad civitatem proximam ibat venditum. In eins aditu factus huic quidam obvius

Quanti rogavit ista quas fers vis emi 7-Et illa tanti. Tantin'? hoe fuerit nimis. Numerare num me vis quod est sequum? vide Hac merce quod sit nunc opus mihi plus dabo Quam præstet illam cede, et hos nummos cape. Es quam superbe fæde rustieltas agit, Hominem reliquit additis convictis, Quasi matimasset vilius mercem optimam. Aversa primos inde vix tulerat gradus, Com lubricato corruit strato via: Lac olla fundit quassa, gallinacese Testas vitellos congerunt como suos Caput ernorem mittit impingens petras Luxata nec fert coxa surgentem solo: Ridetur ejus non malim, sed mens procax, Qua merx et ipaa mercis et pretium perit; Seque illa deffens tot pati infortunia Nulli imputare quam sibi hanc sortem potest Dolor sod onnis saviter recruiuit Curationis danda cum merces fuit.

In re minori cum quis et fragili tumet Hunc sortis ingens sternit indignatio.

NOTE H.

HULBBACH, "Sylva Sermonum," Basilem, 1568, p. 28: "In sylva quadam morabatur heremicola jam satis provectse mtatis, qui quaque die accedebat civitatem, afferens inde mensuram mellis, qua donabatur. Hee recondebat in vase terreo, quod pependerat supra lectum suum. Uno diarum jacens in lecto, et habens bacalum in manu suu, hue apud se dicebat: Quotidie mihi datur vasculum mellis, quod dum indies recondo, fiet tandem summa aliqua. Jam valet mensura staterem unum. Corraso autem ita floreno uno ant altero, emam mihi oves, quus fenerabunt mihi plures: quibus divenditis coëmam mihi elegantem uxorculam, eum qua transigam vitam meam latanter: ex ea suscitabo mihi puellam, quam instituam honeste. Si vero mihi noismrit obedire, hoc baculo cam ita comminuum: atque levato baculo confregit suum vasculum, et effusum est mel, quare

cassatum est suum propositum, et manendum adhue in suo

NOTE I.

"Et Cende Lucanon, composito por el excelentissimo Principe don Iuan Manuel, hijo del Infante don Manuel, y nieto del Santo Rey don Fernando," Madrid, 1642; cap. 29, p. 96. He tells the story as follows: "There was a woman called Dona Truhana (Gertrude), rather poor than rich. One day she went to the market carrying a pot of honey on her head. On her way she began to think that she would sell the pot of honey, and buy a quantity of eggs, that from those eggs she would have chickens, that she would sell them and buy sheep; that the sheep would give her lambs, and thus calculating all her gains, she began to think herself much richer than her neighbors. With the riches which she imagined she possessed, she thought how she would marry her sons and daughters, and how she would walk in the street surrounded by her sons and daughtersin-law; and how people would consider her happy for having amassed so large a fortune, though she had been so poor. While she was thinking over all this, she began to laugh for joy, and struck her head and forehead with her hand, 'The pot of honey fell down, was broken, and she shed hot tears because she had lost all that she would have possessed if the pot of honey had not been broken."

NOTE K.

Bonaventune des Periers, "Les Contes on les Nouvelles."

Amsterdam, 1735. Nouvelle XIV. (vol. i. p. 141). (First edition, Lyon, 1538): "Et ne les (les Alquemistes) sçauroitus misux comparer qu'a une bonne femme qui portoit une potée de siète au marché, faisant son compte ainsi: qu'elle la vendroit deux liards: de ces deux liards elle en achepteroit une douzains d'œufs, lesquels elle mettroit couver, et en auroit une douzains deux, lesquels elle mettroit couver, et en auroit une douzains haponner: ces poussins deviendroient grands, et les feroit haponner: ces elaspous vandroient einq solz la piece, ce seroit un escu et plus, dont elle achepteroit deux cochens, masis et femelle: qui deviendroient grands et en feroient une douzaine d'autres, qu'elle vendroit vingt solz la piece; après les avoir

nomris quelque temps, ce servient douxe france, dont elle schepteroit une imment, qui porteroit un beau poulain, lequel croistroit et deviendroit tant gentil: il sauteroit et feroit Hin. Et en disant Hin, la bonne femme, de l'alse qu'elle avoit en son compte, se print à faire la russle que firoit son poulain; et en ce faisant sa potée de laiet va tember, et se respandit toute. Et volla ses œufs, ses pousains, ses chappons, ses cochons, sa jument, et son poulain, tous par terro."

ON THE RESULTS OF THE SCIENCE OF LANGUAGE.

INAUGURAL LECTURE, DELIVERED IN THE IMPERIAL.

UNIVERSITY OF STRASSBURG, MAY 23, 1872.

You will easily understand that, in giving my first lecture in a German University, I feel some difficulty in mastering and repressing the feelings which stir within my heart. I wish to speak to you, as it becomes a teacher, with perfect calmness, thinking of nothing but of the subject which I have to treat. But here where we are gathered together to-day, in this old free imperial town, in this University, full of the brightest recollections of Alsatian history and German literature, even a somewhat gray-headed German professor may be pardoned if, for some moments at least, he gives free vent to the thoughts that are foremost in his mind. You will see, at least, that he feels and thinks as you all feel and think, and that in living away from Germany he has not forgotten his German language, or lost his German heart.

The times in which we live are great, so great, that we can hardly conceive them great enough; so great that we, old and young, cannot be great and good and brave and hardworking enough, if we do not wish to appear quite unworthy of the times in which our lot has been cast.

We older people have lived through darker times, when to a German, learning was the only refuge, the only comfort, the only pride; times when there was no Germany except in our recollection, and perhaps in our secret hopes. And those who have lived through those sadder days feel all the more deeply the blessings of the present. We have a Germany again, a united, great, and strong country; and I call this a blessing, not only in a material sense, as giving, at last, to our homes a real and lasting seenrity against the inroads of our powerful neighbors, but also in a moral sense, as placing every German under a greater responsibility, as reminding us of our higher duties, as inspiring us with courage and energy for the battle of the mind even more than for the battle of the arm.

That blessing has cost us dear, fearfully dear, dearer than the friends of humanity had hoped; for, proud as we may be of our victories and our victors, let us not deceive ourselves in this, that there is in the history of humanity nothing so inhuman, nothing that makes us so entirely despair of the genius of mankind, nothing that bows us so low to the very dust, as war - unless even war becomes ennobled and sanctified, as it was with us, by the sense of duty, duty towards our country, duty towards our town, duty towards our home, towards our fathers and mothers, our wives and children. Thus, and thus only, can even war become the highest and brightest of sacrifices; thus, and thus only, may we look history straight in the face, and ask, " Who would have acted differently?"

I do not speak here of politics in the ordinary sense of the word, - nay, I gladly leave the groping

for the petty causes of the late war to the scrutiny of those foreign statesmen who have eyes only for the infinitesimally small, but cannot, or will not, see the powerful handiwork of Divine justice that reveals itself in the history of mations as in the lives of individuals. I speak of politics in their true and original meaning, as a branch of ethies, as Kant has proved them to be, and from this point of view, polities become a duty from which no one may shrink, be he young or old. Every nation must have a conscience, like every individual; a nation must be able to give to itself an account of the moral justification of a war in which it is to sacrifice everything that is most dear to man. And that is the greatest blessing of the late war, that every German, however deep he may delve in his heart, can say without a qualm or a quiver, " The German people did not wish for war, nor for conquest. We wanted peace and freedom in our internal development. Another nation or rather its rulers, claimed the right to draw for us lines of the Main, if not new frontiers of the Rhine; they wished to prevent the accomplishment of that German union for which our fathers had worked and suffered. The German nation would gladly have waited longer still, if thereby war could have been averted. We knew that the union of Germany was inevitable, and the inevitable is in no hurry. But when the gauntlet was thrown in our face, and, be it remembered, with the acclamation of the whole French nation, then we knew what, under Napoleonic sway, we might expect from our powerful neighbor, and the whole German people rose as one man for defense, not for defiance. The object of our war was peace, and a lasting peace, and therefore now, after peace has been

won, after our often menaced, often violated, western frontier has been made secure forever by hastious, such as nature only can build, it becomes our duty to prove to the world that we Germans are the same after as before the war, that military glory has nothing intoxicating to us, that we want peace with all the world."

You know that the world at large does not prophesy well for us. We are told that the old and simple German manners will go, that the ideal interests of our life will be forgotten, that, as in other countries, so with us, our love for the True and the Beautiful will be replaced by love of pleasure, emjoyment, and vanities. It rests with us with all our might to confound such evil prophesies, and to carry the banner of the German mind higher than ever. Germany can remain great only by what has made her great - by simplicity of manners, contentment, industry, honesty, high ideals, contempt of luxury, of display, and of vain-glory. " Non propter vitam vivendi perdere causus," - " Not for the sake of life to lose the real objects of life," this must be our watchword forever, and the cause witer, the highest objects of life, are for us to-day, and will, I trust, remain for coming generations the same as they were in the days of Lessing, of Kant, of Schiller, and of Humboldt.

And nowhere, methinks, can this return to the work of peace be better inaugurated than here in this very place, in Strassburg. It was a bold conception to begin the building of the new temple of learning in the very midst of the old German frontier fortress. We are summoned here, as in the days of Nehemiah, when "the builders every one had his sword girded by his side and so builded." It rests

with us, the young as well as the old, that this bold conception shall not fail. And therefore I could not resist the voice of my heart, or gainsay the wish of my friends who believed that I, too, might bring a stone, however small, to the building of this new temple of German science. And here I am among you to try and do my best. Though I have lived long abroad, and pitched my workshop for nearly twenty-five years on English soil, you know that I have always remained German in heart and mind. And this I must say for my English friends, that they esteem a German who remains German far more than one who wishes to pass himself off as English. An Englishman wishes every man to be what he is. I am, and I always have been, a German living and working in England. The work of my life, the edition of the Rig-Veda, the oldest book of the Indian, ave, of the whole Aryan world, could be carried out satisfactorily nowhere but in England, where the rich collections of Oriental MSS., and the easy communications with India, offer to an Oriental scholar advantages such as no other country can offer. That by living and working in England I have made some sacrifices, that I have lost many advantages which the free intercourse with German scholars in a German university so richly offers, no one knows better than myself. Whatever I have seen of life-I know of no life more perfect than that of a German professor in a German school or university. You know what Niebuhr thought of such a life, even though he was a Prussian minister and ambassador at Rome. I must read you some of his words, they sound so honest and sincere: "There is no more grateful, more sereme life than that of a German

teacher or professor, none that, through the nature of its duties and its work, secures so well the peace of our heart and our conscience. How many times have I deplored it with a sad heart, that I should ever have left that path of life to enter upon a life of trouble which, even at the approach of old age, will probably never give me lasting peace. The office of a schoolmaster, in particular, is one of the most honorable, and despite of all the evils which now and then disturb its ideal beauty, it is for a truly noble heart the happiest path of life. It was the path which I had once chosen for myself, and how I wish I had been allowed to follow it!"

I could quote to you the words of another Prussian ambassador, Bunsen. He, too, often complained with sadness that he had missed his true path in life. He too, would gladly have exchanged the noisy hotel of the ambassador for the quiet home of a German

professor.

From my earliest youth it has been the goal of my life to act as a professor in a German university, and if this dream of my youth was not to be fulfilled in its entirety, I feel all the more grateful that, through the kindness of my friends and German colleagues, I have been allowed, at least once in my life, to act during the present spring and summer as a real German professor in a German university.

This was in my heart, and I wanted to say it, in order that you might know with what purpose I have come, and with what real joy I begin the work which

has brought us together to-day.

I shall lecture during the present term on "The Results of the Science of Language;" but you will easily understand that to sum up in one course of

lectures the results of researches which have been carried on with unflagging industry by three generations of scholars, would be a sheer impossibility. Besides, a mere detailing of results, though it is possible, is hardly calculated to subserve the real objects of academic teaching. You would not be satisfied with mere results: you want to know and to understand the method by which they have been obtained. You want to follow step by step that glorious progress of discovery which has led us to where we stand now. What is the use of knowing the Pythagorean problem, if we cannot prove it? What would be the use of knowing that the French larme is the same as the German Zühre (tear), if we could not with mathematical exactness trace every step by which these two words have diverged till they became what they are?

The results of the Science of Language are enormous. There is no sphere of intellectual activity which has not felt more or less the influence of this new science. Nor is this to be wondered at. Lauguage is the organ of all knowledge, and though we flatter ourselves that we are the lords of language, that we use it as a useful tool, and no more, believe me there are but few who can maintain their complete independence with respect to language, few who can say of her, Eye Acies, ses Tyonas. To know langauge historically and genetically, to be able more particularly to follow up the growth of our technical terms to their very roots, this is in every science the best means to keep up a living connection between the past and the present, the only way to make us feel the ground on which we stand.

Let us begin with what is nearest to us, Philology.

Its whole character has been changed as if by magic. The two classical languages, Greek and Latin, which looked as if they had fallen from the sky or been found behind the hedge, have now recovered their title-deeds, and have taken their legitimate place in that old and noble family which we call the Indo-European, the Indo-Germanic, or by a shorter, if not a better name, the Aryan. In this way not only have their antecedents been cleared up, but their mutual relationship, too, has for the first time been placed in its proper light. The idea that Latin was derived from Greek, an idea excusable in scholars of the Scipionic period, or that Latin was a language made up of Italie, Greek, and Pelasgic elements, a view that had maintained itself to the time of Nicbuhr, all this has now been shown to be a physical impossibility. Greek and Latin stand together on terms of perfect equality; they are sisters, like French and Italian :-

"Facies non omnibus una, Nec diversa tamen qualem decet esse sororum."

If it could be a scientific question which of the two is the elder sister, Greek or Latin, Latin, I believe, could produce better claims of seniority than Greek. Now, as in the modern history of language we are able to explain many things that are obscure in French and Italian by calling in the Provençal, the Spanish, the Portuguese, may, even the Wallachian and the Churwälsch, we can do the same in the ancient history of language, and get light for many things which are difficult and unintelligible in Greek and Latin, by consulting Sanskrit, Zend, Gothic, Irish, and even Old Bulgarian. We can hardly form an idea of the surprise which was occasioned

among the scholars of Europe by the discovery of the Aryan family of languages, reaching with its branches from the Himalayan mountains to the Pyrences. Not that scholars of any eminence believed at the end of the last century that Greek and Latin were derived from Hebrew: that prejudice had been disposed of once for all, in Germany at least, by Leibniz. But after that theory had been given up, no new truly scientific theory had taken its place. The languages of the world, with the exception of the Semitic, the family type of which was not to be mistaken, lay scattered about as disjecta membra poëta, and no one thought of uniting them again into one organic whole. It was the discovery of Sanskrit which led to the rennion of the Aryan languages, and if Sanskrit had taught us nothing else, this alone would establish its claim to a place among the academic sciences of our century.

When Greek and Latin had once been restored to their true place in the natural system of the Arvan languages, their special treatment, too, became necessarily a different one. In grammar, for instance, scholars were no longer satisfied to give forms and rules, and to place what was irregular by the side of what was regular. They wished to know the reasons of the rules as well as of the exceptions; they asked why the forms were such as they were, and not otherwise; they required not only a logical, but also an historical foundation of grammar. People asked themselves for the first time, why so small a change as mensa and mensa could express the difference between one and many tables; why a single letter, like r, could possess the charm of changing I love, ame, into I am loved, amor. Instead of indulging

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in general speculations on the logic of grammar, the riddles of grammar received their solution from a study of the historical development of language. For every language there was to be a historical grammar, and in this way a revolution was produced in philological studies to be compared only to the revolution produced in chemistry by the discoveries of Lavoisier, or in geology by the theories of Lyell. For instance, instead of attempting an explanation why the genitive singular and the ablative plural of the first and second declensions could express rest in a place - Romer, at Rome ; Tarenti, at Tarentum ; Athenia, at Athens; Gabiis, at Gabii - one glance at the past history of these languages showed that these so-called genitives were not and never had been genitives, but corresponded to the old locatives in and su in Sanskrit. No doubt, a pupil can be made to learn anything that stands in a grammar; but I do not believe that it can conduce to a sound development of his intellectual powers if he first learns at school the real meaning of the genitive and ablative, and then has to accept on trust that, somehow or other, the same cases may express rest in a place. A well-known English divine, opposed to reform in spelling, as in everything else, once declared that the fearful orthography of English formed the best psychological foundation of English orthodoxy, because a child that had once been brought to believe that t-h-r-o-u-g-h sounded like "through," t-h-o-u-g-h like "though," r-o-u-g-h like "rough," would afterwards believe anything. Be that as it may, I do not consider that grammatical rules like those just quoted on the genitive and ablative, assuming the power of the locative, are likely to strengthen the reasoning powers of any schoolboy.

Even more pernicious to the growth of sound ideas was the study of etymology, as formerly carried on in schools and universities. Everything here was left to chance or to authority, and it was not unusual that two or three etymologies of the same word had to be learnt, as if the same word might have had more than one parent. Yet it is many years since Offried Müller told classical scholars that they must either surrender the whole subject of the historical growth of language, etymology, and grammatical morphology, or trust in these matters entirely to the guidance of Comparative Philology. As a student at Leipzig, I lived to see old Gottfried Hermann quoting the paradigms of Sanskrit grammar in one of his last Programs; and Boeckh declared in 1850. at the eleventh meeting of German philologists, that, in the present state of the science of language, the grammar of the classical languages cannot dispense with the cooperation of comparative grammar. And vet there are scholars even now who would exclude the Science of Language from schools and universi-What gigantic steps truly scientific etymology has made in Greek and Latin, every scholar may see in the excellent works of Cartius and Corssen. The essential difference between the old and the new systems consists here, too, in this, that while formerly people were satisfied if they knew, or imagined they knew, from what source a certain word was derived, little value is now attached to the mere etymology of a word, unless at the same time it is possible to account, according to fixed phonetic laws, for all the changes which a word has undergone in its passage through Latin, Greek, and Sanskrit. How far this conscientiousness may be carried is shown by the fact

that the best comparative philologists decline to admit, on phonetic grounds, the identity of such words as the Latin *Deus*, and the Greek $\otimes \omega$, although the strongest internal arguments may be urged in favor

of the identity of these words.1

Let us go on to Mythology. If mythology is an old dialect, outliving itself, and, on the strength of its sacred character, carried on to a new period of language, it is easy to perceive that the historical method of the Science of Language would naturally lead here to most important results. Take only the one fact, which no one at present would dare to question, that the name of the highest deity among the Greeks and Romans, Zeis, and Jupiter, is the same as the Vedic Dyaus, the sky, and the old German Zio, Old Norse Tyr, whose name survives in the modern names of Dienstag or Tuesday. Does not this one word prove the union of those ancient races? Does it not show us, at the earliest dawn of history, the fathers of the Aryan race, the fathers of our own race, gathered together in the great temple of nature, like brothers of the same house, and looking up in adoration to the sky as the emblem of what they yearned for, a father and a God. Nay, can we not hear in that old name of Jupiter, i. e., Heaven-Father, the true key-note which still sounds on in our own prayer, " Our Father which art in heaven," and which imparts to these words their deepest tone, and their fullest import? By an accurate study of these words we are able to draw the bonds of language and belief even more closely together. You know that the nom. sing. of Ze's has the acute, and so has the nom. sing. of Dyaus; but the vocative of Zes

has the circumflex, and so has likewise the vocative of Dyaus in the Veda. Formerly the accent might have been considered as something late, artificial, and purely grammatical: the Science of Language has shown that it is as old as language itself, and it has rightly called it the very soul of words. Thus even in these faint pulsations of language, in the changes of accent in Greek and Sanskrit, may we feel the common blood that runs in the veins of the

old Aryan dialects.

History, too, particularly the most ancient history, has received new light and life from a comparative study of languages. Nations and languages were in ancient times almost synonymous, and what constitutes the ideal unity of a nation lies far more in the intellectual factors, in religion and language, than in common descent and common blood. But for that very reason we must here be most cautious. It is but too easily forgotten that if we speak of Aryan and Semitic families, the ground of classification is language, and language only. There are Aryan and Semitic languages, but it is against all rules of logic to speak, without an expressed or implied qualification, of an Aryan race, of Aryan blood, of Aryan skulls, and to attempt ethnological classification on purely linguistic grounds. These two sciences, the Science of Language and the Science of Man, cannot; at least for the present, be kept too much asunder; and many misunderstandings, many controversies, would have been avoided, if scholars had not attempted to draw conclusions from language to blood, or from blood to language. When each of these sciences shall have carried out independently its own

¹ Note B, p. 230.

classification of men and of languages, then, and then only, will it be time to compare their results; but even then, I must repeat, what I have said many times before, it would be as wrong to speak of Aryan blood as of dolichocephalic grammar.¹

We have all accustomed ourselves to look for the cradle of the Aryan languages in Asia, and to imagine these dialects flowing like streams from the centre of Asia to the South, the West, and the North. I must confess that Professor Benfey's protest against this theory seems to me very opportune, and his arguments in favor of a more northern, if not European, origin of the whole Aryan family of speech, deserve, at all events, far more attention than they have hitherto received.

For the same reasons it seems to me at least a premature undertaking to use the greater or smaller number of coincidences between two or more of the Aryan languages as arguments in support of an earlier or later separation of the people who spoke them. First of all, there are few points on which the opinions of competent judges differ more deeidedly than when the exact degrees of relationship between the single Arvan languages have to be settled. There is agreement on one point only, viz., that Sanskrit and Zend are more closely united than any other languages. But though on this point there can hardly be any doubt, no satisfactory explanation of this extraordinary agreement has as yet been given. In fact, it has been doubted whether what I called the "Southern Division" of the Aryan family could properly be called a division at all, as

¹ See M. M.'s Letter to Cherolier Busses, on the Turnian Zanguages 1834, second chapter, second section, "Ethnology versus Plannology."

it consisted only of varieties of one and the same type of Aryan speech. As soon as we go beyond Sanskrit and Zend, the best authorities are found to be in open conflict. Bopp maintained that the Slavonic languages were most closely allied to Sanskrit, an opinion shared by Pott. Grimm, on the contrary, maintained a closer relationship between Slavonic and German. In this view he was supported by Lottner, Schleicher, and others, while Bopp to the last opposed it. After this, Schleicher (2s, before him, Newman in England) endeavored to prove a closer contact between Celtic and Latin, and, accepting Greek as most closely united with Latin, he proceeded to establish a Southwestern European division, consisting of Celtic, Latin, and Greek, and running parallel with the Northwestern division, consisting of Teutonic and Slavonic; or, according to Ebel, of Celtic, Teutonic, and Slavonic.

But while these scholars classed Greek with Latin, others, such as Grassmann and Sonne, pointed out striking poculiarities which Greek shares with Sanskrit, and with Sanskrit only, as, for instance, the augment, the voiceless aspirates, the alpha privativum (a, not an), the ma and un prohibitivum, the tara and repo as the suffix of the comparative, and some others. A most decided divergence of opinion manifested itself as touching the real relation of Greek and Latin. While some regarded these languages not only as sisters, but as twins, others were not inclined to concede to them any closer relationship than that which unites all the members of the Arvan family. While this conflict of opinions lasts (and they are not mere assertions, but opinions supported by arguments), it is clear that it would be

premature to establish any historical conclusions such, for instance, as that the Slaves remained longer united with the Indians and Persians than the Greeks, Romans, Germans, and Celts; or, if we follow Professor Sonne, that the Greeks remained longer united with the Indians than the other Aryan nations. I must confess that I doubt whether the whole problem admits of a scientific solution. If in a large family of languages we discover closer coincidences between some languages than between others, this is no more than we should expect, according to the working of what I call the Dinlectic Process. All these languages sprang up and grew and diverged, before they were finally separated; some retained one form, others another, so that even the apparently most distant members of the same family might, on certain points, preserve relies in common which were lost in all the other dialects, and vice verad. No two languages, not even Lithuanian and Old Slavonic, are so closely united as Sanskrit and Zend, which share together even technical terms, connected with a complicated encrificial ceremonial. Yet there are words occurring in Zend, and absent in Sanskrit, which crop up again sometimes in Greek, sometimes in Latin, sometimes in German. As soon as we attempt to draw from such coincidences and divergences historical conclusions as to the earlier or later separation of the nations who developed these languages, we fall into contradictions like those which I pointed out just now between Bopp, Grimm, Schleicher, Ebel, Grassmann, Sonne, and others, Much depends, in all scientific researches, on seeing that the question is properly put. To me the question,

whether the closer relations between certain independent dialects furnish evidence as to the successiva times of their separation, seems, by its very nature, fruitless. Nor have the answers been at all satisfactory. After a number of coincidences between the various members of the Aryan family have been carefully collected, we know no more in the end than what we knew at first, viz., that all the Aryan dialects are closely connected with each other. We cnow-

1. That Slavonic is most closely united with Ger-

man (Grimm, Schleicher) ;

2. That German is most closely united with Celtic (Ebel, Lottner);

3. That Celtic is most closely united with Latin

(Newman, Schleicher);

4. That Latin is most closely united with Greek (Mommsen, Curtius);

That Greek is most closely united with Sanskrit

(Grassmann, Sonne, Kern);

6. That Sanskrit is most closely united with Zend

(Burnouf).

Let a mathematician draw out the result, and it will be seen that we know in the end no more than we knew at the beginning. Far be it for me to use a mere trick in arguing, and to say that none of these conclusions can be right, because each is contradicted by others. Quite the contrary. I admit that there is some truth in every one of these conclusions, and I maintain, for that very reason, that the only way to reconcile them all is to admit that the single dialects of the Aryan family did not break off in regular succession, but that, after a long-continued community, they separated slowly, and, in some cases, contemporaneously, from their family-circle, till they established at last, under varying circumstances, their complete national independence. This seems to me all that at present one may say with a good conscience, and what is in keeping with the law of development in all dialects.

If now we turn away from the purely philological results of the Science of Language, in order to glance at the advantages which other sciences have derived from it, we shall find that they consist mostly in the light that has been shed on obscure words and old customs. This advantage is greater than, at first sight, it might seem to be. Every word has its history, and the beginning of this history, which is brought to light by etymology, leads us back far beyond its first historical appearance. Every word, as we know, had originally a predicative meaning, and that predicative meaning differs often very considerably from the later traditional or technical meaning. This predicative meaning, however, being the most original meaning of the word, allows us an insight into the most primitive ideas of a nation.

Let us take an instance from jurisprudence. Pana, in classical Latin, means simply punishment, particularly what is either paid or suffered in order to atome for an injury. (Si injuriam faxit alteri, viginti quinque aris pana sunto, fragm. xii. tab.) The word agrees so remarkably, both in form and meaning, with the Greek xoro, that Mommsen assigned to it a place in what he calls Greeo-Italic ideas. We might suppose, therefore, that the ancient Italians took pana

^{1 **} Judgment (crimes, spiero), penance (pass, sweet), retribution (talle, repio, retries), are Grace-Italia conceptions ** Monumen, Risa Geochicate, vol. 1, p. 25.

by which he who had inflicted injury on another was, as far as he and the injured person were concerned, restored in integrum. The etymology of the word, however, leads us back into a far more distant past, and shows us that when the word pæna was first framed, punishment was conceived from a higher moral and religious point of view, as a purification from ain; for pæna, as first shown by Professor Pott (and what has he not been the first to show?) is closely connected with the root p u, to purify. Thus we read in the "Atharva-veda," xix, 33, 3;—

"Tvám bhímim styeshi dzasa Tvám vödyám sidasi kűrar sáhvaré Tvám pavitram rishayo bhárantas Tvám panilú duritini asmat."

"Thou, O God of Fire, goest mightily across the earth; thou sittest brilliantly on the ultar at the earridge. The prophets carry Thee as the Purifier; purify us from all misdeeds."

From this root pin we have, in Latin, pūrus, and pūtus, as in argentum purum putum, fine silver, or in purus putus est ipse, Plant. Ps. 4, 2, 31. From it we also have the verb purgare, for purigare, to purge, used particularly with reference to purification from crime by means of religious observances. If this transition from the idea of purging to that of punishing should seem strange, we have only to think of castigare, meaning originally to purify, but afterwards in such expressions as verbis et verberibus castigare, to chide and to chasten.

I cannot convince myself that the Latin crimen has anything in common with spirer. The Greek spirer is no doubt connected with Latin cer-no, from which cribrum, sieve. It means to separate, to sift, so that spina may well signify a judgment, but not a crime or misdeed. Crimen, as every scholar knows or ought to know, meant originally an accusation, not a crime, and, in spite of all appearances to the contrary, has nothing whatever in common with discrimen, which means what separates two things, a difference, a critical point. In crimen venire means to get into had repute, to be calumniated; in discrimine esse means to be in a critical and dangerous position.

It is one of the fundamental laws of etymology that in tracing words back to their roots, we have to show that their primary, not their secondary meanings agree with the meaning of the root. Therefore, even if crimen had assumed in later times the meaning of judgment, yet its derivation from the Greek spixer would have to be rejected, because it would explain the secondary only, but not the primary meaning of erimen. Nothing is clearer than the historical development of the meanings of crimen, beginning with accusation,

and ending with guilt.

I believe I have proved that crimen is really and truly the same word as the German Verleumdung, calumny.\(^1\) Verleumdung comes from Leumund, the Old High-German kliumunt, and this kliumunt is the exact representative of the Vedic 2 on a ta, derived from the root 2 on, to hear, cluere, and signifying good report, glory, the Greek 2264, the Old High-German kruom. The German word Leumund can be used in a good and a bad sense, as good or evil report, while the Latin cri-men, for croe-men (like liber for iceber), is used only in malam partem. It meant originally what is heard, report, on dit, gossip, accusation; lastly, the object of an accusation, a crime, but never judgment, in the technical sense of the word.

¹ See my article in Kuhn's Zeitschrift, vol. ziz. p. 46.

The only important objection that could be raised against tracing crimen back to the root aru, is that this root has in the Northwestern branch of the Arvan family assumed the form clu, instead of ero, as in khios, cliens, gloria, O. Sl. slovo, A. S. hlad, loud, inclutus. I myself hesitated for a long time on account of this phonetic difficulty, nor do I think it is quite removed by the fact that Bopp ("Comp. Gr." § 20) identified the German scrir-u-mes, we cry (instead of serie-u-mes), with Sk. srav-ay a-mas, we make hear; nor by the r in in-cre-p-are, in apalon as compared with sadto, nor even by the r in d-spo-d-quen, which Curtius seems inclined to derive from eru. The question is whether this phonetic difficulty is such as to force us to surrender the common origin of ar omata, hliumunt, and crimen; but even if this should be the case, the derivation of crimen from cerno or spires would remain as impossible as ever.

This will give you an idea in what manner the Science of Language can open before our eyes a period in the history of law, customs, and manners, which hitherto was either entirely closed, or reached only by devious paths. Formerly, for instance, it was supposed that the Latin word lex, law, was connected with the Greek λόγοι. This is wrong, for Adyos never means law in the sense in which lex does. Adyos, from Acyen, to collect, to gather, signifies, like sandayos, a gathering, a collection, an ordering, be it of words or thoughts. The idea that there is a Aéyes, an order or law, for instance, in nature, is not elassical, but purely modern. It is not improbable that lex is connected with the English word law, only not by way of the Norman loi. English law is A. S. lagu (as saw corresponds both to the German Sage

and Sage), and it meant originally what was laid down or settled, with exactly the same conception as the German Gesetz. It has been attempted to derive the Latin lex, too, from the same root, though there is this difficulty, that the root of liegen and legen does not elsewhere occur in Latin. The mere disappearance of the aspiration would be no serious obstacle. If, however, the Latin lex cannot be derived from that root, we must, with Corssen, refer it to the same cluster of words to which ligare, to bind, obligatio, binding, and the Oscan ablative lig-ud belong, and assign to it the original meaning of bond. On no account can it be derived from legers, to read, as if it meant a bill first read before the people, and afterwards receiving legal sanction by their approval.

From these considerations we gain at least this negative result, that, before their separation, the Aryan languages had no settled word for law; and even such negative results have their importance. The Sanskrit word for law is d har ma, derived from d har, to hold fast. The Greek word is rouse, derived from ripus, to dispense, from which Nemesis, the dispensing deity, and perhaps even Numa, the name of the fab-

ulous king and lawgiver of Rome.

Other words might easily be added which, by the disclosure of their original meaning, give us interesting hints as to the development of legal conceptions and customs, such as marriage, inheritance, ordeals, and the like. But it is time to cast a glance at theology, which, more even than jurisprudence, has experienced the influence of the Science of Language. What was said with regard to mythology, applies with equal force to theology. Here, too, words harden, and remain unchanged longer even than in

purport.

In addition to this, the Philosophy of Religion, which must always form the true foundation of theological science, owes it to the Science of Language that the deepest germs of the consciousness of God among the different nations of the world have for the first time been laid open. We know now with perfect certainty that the names, that is, the most original conceptions, of the Deity among the Arvan nations, are as widely removed from coarse fetichism as from abstract idealism. The Arvans, as far as the annals of their language allow us to see, recognized the presence of the Divine in the bright and sunny aspects of nature, and they, therefore, called the blue sky, the fertile earth, the genial fire, the bright day, the golden dawn their Devas, that is, their bright ones. The same word, Deva in Sanskrit, Deus in Latin, remained unchanged in all their prayers, their rites, their superstitions, their philosophies, and even to-day it rises up to heaven from thousands of churches and cathedrals, - a word which, before there were Brahmans or Germans, had been framed in the dark workshop of the Arvan mind.

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That the natural sciences, too, should have felt the electric shock of our new science is not surprising, considering that man is the crown of nature, the apex to which all other forces of nature point and tend. But that which makes man man, is language. Homo animal rationale, quia orationale, as Hobbes said. Buffon called the plant a sleeping animal; living philosophers speak of the animal as a dumb man. Both, however, forget that the plant would cease to be a plant if it awoke, and that the brute would cease to be a brute the moment it began to speak. There is, no doubt, in language a transition from the material to the spiritual: the raw material of language belongs to nature, but the form of language, that which really makes language, belongs to the spirit. Were it possible to trace human language directly back to natural sounds, to interjections or imitations, the question whether the Science of Language belongs to the sphere of the natural or the historical sciences would at once be solved. But I doubt whether this crude view of the origin of language counts one single supporter in Germany. With one foot language stands, no doubt, in the realm of nature, but with the other in the realm of the spirit. Some years ago, when I thought it necessary to bring out as clearly as possible the much neglected natural eloment in language, I tried to explain in what sense the Science of Language had a right to be called the last and the highest of the natural sciences. But I need hardly say that I did not lose sight, therefore, of the intellectual and historical character of language; and I may here express my conviction that the Science of Language will yet enable us to withstand the extreme theories of the evolutionists, and

to draw a hard and fast line between spirit and matter, between man and brute.

This short survey must suffice to show you how omnipresent the Science of Language has become in all spheres of human knowledge, and how far its limits have been extended, so that it often seems impossible for one man to embrace the whole of its vast domain. From this I wish, in conclusion, to draw

some necessary advice.

Whoever devotes himself to the study of so comprehensive a science must try never to lose sight of two virtues : conscientiousness and modesty. The older we grow, the more we feel the limits of human knowledge. "Good care is taken," as Goethe said, "that trees should not grow into the sky." Every one of us can make himself real master of a small field of knowledge only, and what we gain in extent, we inevitably lose in depth. It was impossible that Bopp should know Sanskrit like Colebrooke, Zend like Burnouf, Greek like Hermann, Latin like Lachmann, German like Grimm, Slavonic like Miklosich, Celtie like Zenss. That drawback lies in the nature of all comparative studies. But it follows by no means that, as the French proverb says, qui trop embrasse, mal étreint. Bopp's "Comparative Grammar" will always mark an epoch in linguistic studies, and no one has accused the old master of superficiality. There are, in fact, two kinds of knowledge; the one which we take in as real nourishment, which we convert in succum et sanguinem, which is always present, which we can never lose; the other which, if I may say so, we put into our pockets, in order to find it there whenever it is wanted. For comparative studies the second kind of knowledge is as im-

portant as the first, but in order to use it properly, the greatest conscientiousness is required. Not only ought we, whenever we have to use it, to go back to the original sources, to accept nothing on trust, to quote nothing at second-hand, and to verify every single point before we rely on it for comparative purposes, but, even after we have done everything to guard against error, we ought to proceed with the greatest cantion and modesty. I consider, for instance, that an accurate knowledge of Sanskrit is a conditio sine qua non in the study of Comparative Philology. According to my conviction, though I know it is not shared by others, Sanskrit must forever remain the central point of our studies. But it is clearly impossible for us, while engaged in a scholarlike study of Sanskrit, to follow at the same time the gigantic strides of Latin, Greek, German, Slavonic, and Celtic philology. Here we must learn to be satisfied with what is possible, and apply for advice whenever we want it, to those who are masters in these different departments of philology. Much has of late been said of the antagonism between comparative and classical philology. To me it seems that these two depend so much on each other for help and advice that their representatives ought to be united by the closest ties of fellowship. We must work on side by side, and accept counsel as readily as we give it. Without the help of Comparative Philology, for instance, Greek scholars would never have arrived at a correct understanding of the Digamma - nay, a freer intercourse with his col. league, Bopp, would have preserved Bekker from several mistakes in his restoration of the Digamma in Homer. Letin scholars would have felt far more

hesitation in introducing the old d of the ablative in Plantus, if the analogy of Sanskrit had not so clearly proved its legitimacy.

On the other hand, we, comparative philologists, should readily ask and gladly accept the advice and help of our classical colleagues. Without their guidunce, we can never advance securely; their warnings are to us of the greatest advantage, their approval our best reward. We are often too bold, we do not see all the difficulties that stand in the way of our speculations, we are too apt to forget that, in addition to its general Aryan character, every language has its peculiar genius. Let us all be on our guard against omniscience and infallibility. Only through a frank, honest, and truly brotherly cooperation can we hope for a true advancement of knowledge. We all want the same thing; we all are etymologists - that is, lovers of truth. For this, before all things, the spirit of truth, which is the living spirit of all science, must dwell within us. Whoever cannot yield to the voice of truth, whoever cannot say, "I was wrong," knows little as yet of the true spirit of science.

Allow me, in conclusion, to recall to your remembrance another passage from Niebuhr. He belongs to the good old race of German scholars. "Above all things," he writes, "we must in all scientific parauits preserve our truthfulness so pure that we thoroughly eachew every false appearance; that we represent not even the smallest thing as certain of which we are not completely convinced; that if we have to propose a conjecture, we spare no effort in representing the exact degree of its probability. If we do not ourselves, when it is possible, indicate our errors, even such as no one clse is likely to discover;

if, in laying down our pen, we cannot say in the sight of God, 'Upon strict examination, I have knowingly written nothing that is not true;' and if, without deceiving either ourselves or others, we have not presented even our most odious opponents in such a light only that we could justify it upon our deathbeds—if we cannot do this, study and literature serve only to make us unrighteous and sinful."

Few, I fear, could add, with Niebuhr: "In this I am convinced that I do not require from others anything of which a higher spirit, if He could read my soul, could convict me of having done the contrary." But all of us, young as well as old, should keep these words before our eyes and in our hearts. Thus, and thus only, will our studies not miss their highest goal: thus, and thus only, may we hope to become true etymologists—i, e., true lovers, seekers, and, I trust finders of truth.

NOTES.

NOTE A.

Gols AND Deux.

That Greek # does not legitimately represent a Sanskrit, Latin, Slavonic, and Celtic d is a fact that ought never to have been overlooked by comparative philologists, and nothing could be more useful than the strong protest entered by Windischmann, Schleicher, Curtius, and others, against the favorite identification of Sk. do v.a. dous, and beits. Considering it as one of the first duties, in all etymological researches, that we should pay implicit obedience to phonetic laws, I have never, so far as I remember, quoted \$\psi_{\text{of}}\text{is}\$ as identical with dous, together with the other derivatives of the root d i v, such as D y a u s, Zeôt, Jupiter, d e v a, Lith, decars, Irish dia.

But with all due respect for phonetic laws, I have never in my own heart doubted that sees belonged to the same cluster of words which the early Aryans employed to express the brightness of the sky and of the day, and which helped them to utter their first conception of a god of the bright sky (Dyaus), of bright beings in heaven, as opposed to the powers of night and darkness and winter (de va), and, lastly, of deity in the abstract.1 I have never become an atheist; and though I did not undervalue the powerful arguments advanced against the identity of ifens and e-e, I thought that other arguments also possessed their value, and could not be ignored with impunity. If, with our eyes shut, we submit to the dictates of phonetic laws, we are forced to believe that while the Greeks shared with the Hindus, the Italians, and Germans the name for the bright god of the sky Zeiv, Dyaus, Joris, Zio, and while they again shared with them such derivatives as Mor, heavenly, Sk, divyas, they threw away the intermediate old Aryan word for god, deva, deus, and formed

¹ Lectures on the Science of Language, vol. ii. p. 457.

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a new one from a different root, but agreeing with the word which they had rejected in all letters but one. I suppose that even the strongest supporters of the atheistic theory would have accepted \$e6s, if it existed in Greek, as a correlative of deva and deus; and I ask, would it not be an almost incredible coincidence, if the Greeks, after giving up the common Aryan word, which would have been \$\sinf\delta_i \text{or } \delta_i \inf\delta_i \text{or } \delta_i \infty \infty \text{or } \delta_i \infty \infty \text{or } \delta_i \infty \text{or } \delta_i \infty \text{or } \delta_i \infty \infty \text{or } \delta_i \text{or } \delt

Now I think that, though much has been said against seds for \$efis, something may also be said in support of \$efis assuming the form of \$eis. Curtius is quite right in repelling all arguments derived from Sk. d u h i t a v = separage, or Sk. d v à r = signification to I think he does not do full justice to the argument derived from color and pushed. The Grock scale has been explained as originally sefision, the lost digamma causing the aspiration of the initial v. Curtius says: "This etymology of scale is excelled on the fact that in Homer the word does not mean a wessel for drinking, but a kind of kettle." That is true, but the fact remains that in later Greek scale means a drinking cup. Thus Pindar ("Isthm.," v. 58) says:—

"Ανδοπε δ' πότῷ φέρτατος ωλοδόκου φιάλαν χρυσῷ πεφριαυίαν Τελαμών,

which refers clearly to a golden goblet, and not a kettle. Besides, we have an exactly analogous case in the Sk. p a tra m. This, too, is clearly derived from p a, to drink, but it is used far more frequently in the sense of vessel in general, and its etymological meaning vanishes altegether when it comes to mean a yessel for semething, a fit person. I see no etymology for sedan, except */fdx*, a drinking vessel.

Secondly, as to peace, which is supposed to be the same as respér, and to represent the Sanskrit plvaras, fat, Curtius says that it occurs in Alexandrian poets only, that it there means bright, resplendent, and is used as an adjective of the dawn, while respective means fat, and fat only. Against this I venture to remark, first, that there are passages where complet means sleek, as in Theorer ii. 21, passarins book, said of a young plums girl, who in Sanskrit would be called plvari; secondly, that

while step is used for crown, spends is used as an adjective of cream; and, thirdly, that the application of cases to the dawn is hardly surprising, if we remember the change of meaning in Armose in Greek, and the application in the Veda of such words as ghrita pratika, to the dawn. Lastly, as in such, I see no esymology for supple, except */Fepole.

I think it is but fair therefore to admit that dide for befits would find some support by the analogy of quike for wifake, and of puper for suFaper. There still remain difficulties enough to make us cautious in asserting the identity of this and does; but in forming our own opinion there difficulties should be weighed impartially against the internal difficulties involved in placing bede, as a totally independent word, by the side of deva and dous. And, as in oning and count, may we not say of fice also that there is no cryssology for it, if we separate it from Zioc and Siar, from Dynus and divy as? Curtius himself rejects Plato's and Schleicher's derivation of #sos from #6s, to run: likewise C. Hoffmann's from d h a v a, man; likewise Buhler's from a root d lei, to think or to shine; likewise that of Herodotus and A. Göbel from \$es, a secondary form of \$s, to settle. Ascoli's analysis is highly sagacious, but it is too artificial. Ascoll I identifies Beiz, not with deva, but with divys-s. Divys becoming 3.f-ed. (like saty a, erest), the accent on the last syllable would produce the change to \$Feb., F would cause aspiration in the proceeding consumant and then disappear, leaving #sde =: divy is. All these changes are just possible phonetically, but, as Cartins observes, the point for which the theists contend is not gained, for we should still have to admit that the Greeks lost the common word for god, deva and dous, and that they alone replaced it by a derivative divya, meaning heavenly, not bright.

Curtius himself seems in favor of deriving \$1.5 from \$1.5, to implore, which we have in \$1.5 or others, \$1.5 from \$1.5, to implore, which we have in \$1.5 or others, \$1.5 or others, etc. \$1.5 or others, and mean the implored being. I cannot think that this is a satisfactory derivation. It might be defended phonetically and etymologically, though I cannot think of any analogous passive derivatives of a root ending in a. Where it falls to carry conviction is in leaving unexplained the less of the common Aryan word for deity, and in putting in its place a name that savors of very modern thought.

¹ Ramilconti del Reale Instituto Lombordo, closes de lettre, iv. last. 6.

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I think the strongest argument against the supposed aspirating power of medial e, and its subsequent disappearance, lies in the fact that there are so many words having modial s, which show no traces of this phonetic process (Cartius, p. 507). On the other hand, it should be borne in mind, that the Greeks might have felt a natural objection to the forms which would have rendered de v a with real exactness, I mean tode or Mes, the former conveying the meaning of double, the latter of fear. A mera wish to keep the name for god distinct from these words might have produced the phonetic anomaly of which we complain; and, after all, though I do not like to use that excuse, there are excontions to phonetic laws. No one can explain how byloss was derived from save, or integer from sard, yet the internal evidence is too strong to be shaken by plionetic objections. In the case of ever and stem the internal evidence seems to me nearly as strong as in 575000 and 4850000, and though unwilling to give a final verdict, I think the question of the loss in Greek of the Aryan word for god and its replacement by another word nearly identical in form, but totally distinct in origin, should be left for the present an open question in Comparative Philology.

NOTE B.

THE VOCATIVE OF Dynds AND Zeir.

The vocative of Dyaus, having the circumflex, is one of those linguistic gens which one finds now and then in the Rig-Veda, and which by right ought to have a place of honor in a Museum of Authquities. It is a unique form. It occurs but once in the Rig-Veda, never again, as far as we know at present, in the whole of Vedic literature, and yet it is exactly that form which a student of language would expect who is familiar with the working of the laws of accent in Sanskrit and in Greek. Without a thorough knowledge of these laws, the circumflexed vocative in Sanskrit, Dyaüs, corresponding to Greek Zeē, would seem a mere anomaly, possibly an accidental coincidence, whereas in reality it affords the most striking proof of the organic working of the laws of necent, and at the same time an unanswerable testimony in favor of the genuineness of the ancient text of the Rig-Veda.

The laws of accent learing on this circumflexed vocative are so simple that I thought they would have been understood by everybody. As this does not seem to have been the case, I add a few explanatory remarks.

It was Benfey who, as on so many other points, so on the accent of vocatives, was the first to point out (in 1845) that it was a fundamental law of the Aryan language to place the acute on the first syllable of all vocatives, both in the singular, and in the dual and plural. In Sanskrit this law admits of no exception ; in Greek and Latin the rhythmic accent has prevailed to that extent that we only find a few traces left of the original Aryan accentuation. It is well known that in vocatives of mons emiing in fur, the ancient Romans presurved the accent on the first syllable, that they said Virgiti, Villeri, from Virgilius and Valirins. This statement of Nigidius Figulus, preserved by Gellius, though with the remark that in his time no one would say so, is the only evidence of the former existence of the Aryan law of accentuation in Latin. In Greek the evidence is more considerable, but the vocatives with the accent on the first syllable are, by the supreme law of the rhythmic accent in Greek, reduced to vocatives, drawing back their accent as far as they can, consistently with the law which restricts the accent to the last three syllables. Thus while in Sanskrit a word like Ayuntures would in the vocative retract the accent on the first syllable "Ayansmer, the Greek could do no more than say 'Aydataras with the accent on the antepenultimate. In the same manner the vocative of 'Agiovereau, can only be 'Agiovereau, whereas in Sanskrit it would have been "Approveder,

Here, however, the question arises, whether in words like 'Ayandarses' and 'Aperterdays' the accent was not originally on the antepenultimate, but drawn on the penultimate by the rhythmic law. This is certainly the case in \$5000, as the vocative of \$5000, for we know that both in Sanskrit and Greek, comparatives in not retract their accent as far as possible, and have it always on the first syllable in Sanskrit, always on the penulti-

¹ See Benfoy, Über die Enstellung des Indo-permanischen Vocation, Götingent, 1872, p. 33.

² The rule is that vocatives in ... from proper names in ... retract the accent, except Association, and those in door, as Association from Association.

^{8.} Vocatives in se from proper names in as retract the accent, as Lisparria excipt three in seen, when, when, spee, as Applica-

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mate in Greek, if the last syllable is long. But, cessante causa cesout effectus, and therefore the accent goes back on the autepenultimate, not only in the vocative, but likewise in the nom, neuter Four.

It is possible that the same process may explain the vocative фетота from всечетия, if we compare Sanskrit compounds with pati, such as dasaputi, gaspati, dampati, which leave the accent on the first member of the compound. In anytree also all becomes regular, if we admit the original accentuation to have been Adapted, changed in Austran, but preserved in the

genitive Adagrees, and the vocative Assurant

But there are other words in which this cannot be the ease, for Instance, \$3ελφε, πόντρε, μόχθεμε from à5ελφός, ποσηρός, μοχθηρός. Here the accent is the old Aryan vocatival accent. Again, in warie, suries. Sk. pita, pitaram, in street, suries. Sk. mata. materam, in overious, overion, Sh, duhita, duhitaram, the radical accent was throughout on the suffix tar, nor would the raises of the rhythmic accent in Greek prevent it from being on the antepenaltimate in the accusative. The fact therefore that it is retracted on the penultimate and antepenultimate in the vocative, shows clearly that we have here, too, the last working of the original Aryan accentuation. The irregular accent in the nom. sing. of unrep, instead of agrap, is probably due to the frequent use of the vocative (an explanation which I had adopted before I had seen Benfey's essay), and the same cause may explain the apparently irregular accentuation in foyarga, by thu side of Copariga, in Coparper, and Coparper. Similar vocatives with retracted accent are \$2ep, nom. Saip, slearep, nom. eledras, your, nome york, sweep, nome sweep, area, nome arty, Areador, nome 'ArdAlmy, Horeidov, nom. Horeiday, "Hornker, nom. "Horkhite.

We have thus established the fact that one feature of the primitive Aryan accontuation, which consisted in the very natural process of placing the high accent on the first syllable of vocatives, was strictly preserved in Sanskrit, while in Greek and Latin it only left some scattered traces of its former existence. Without the light derived from Sanskrit, the changes in the accent of vocatives in Greek and Latin would be inexplicable, they would be, what they are in Greek grammar, mere anomalies, while, if placed by the side of Sanskrit, they are readily recog

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nized as what they really are, remnants of a former age, preserved by frequent usage or by an agent whom we do not like to recognize, though we cannot altogether ignore him, —viz. chance.

Taking our position on the fact that change of accout in the vocative in Greek is due to the continued influence of an older system of Aryan accentuation, we now see how the change of nom. Zees into voc. Zee, and of nom. Dyau's, into voc. Dyau's, rests on the same principle. In Sanskrit the change, though at first sight irregular, admits of explanation. What we call the circumffex in Sanskrit, is the combination of a rising and falling of the voice, or, as we should say in Greek, of an armo and grave accent. As Dyan's was originally Dian's, and is frequently used as two syllables in the Voda, the vocative would have been Diairs, and this contracted would become Dy aus. Thus we have parishve from parishus. In Greek the facts are the same, but the explanation is more difficult. The general rule in Greek is that vocatives in se, se, and se, from oxytone or perispone nominatives, are perispone; as shase, dec. Αυτοί, Πηλεύ, Βασιλεύ, from πλακούι, οθυτοι, placenta, Βούι, Αυτώ, Πηλείς, βασιλείς. The rationale of that rule has never been explained, as far as Greek is concerned. Under this rale the vocative of Zees becomes Zees but no Greek grammarian has attempted to explain the process by which Zeer becomes Zee, and nothing remains for the present but to admit that we have in It an ancient Aryan relic preserved in Greek long after the causes which had produced it had ceased to act. It would fall into the same category as she and fees. Here, too, the efficient cause of the length and shortness of the radical vowel i, viz., the change of accent, Sk. e m i, but i m an, has disappeared in Greek, while its effect has been preserved. But whatever explanation may hereafter be adopted, the simple fact which I had pointed out remains, the motive power which changed the nom dyau's into the vocative dy aus, is the same which changed Zee into Zec. Those who do not understand, or do not admit this, are bound to produce, from the resources of Greek itself, another motive power to account for the change of Zeer into Zee; but they must not imagine that a mere reference to a Greek elementary grammar suffices for explaining that process.

The passage in the Rig-Veda (VI. 51, 5) to which I referred is unique, and I therefore give it here, though it has in the meantime been most ably discussed by Benfey in his "Essay on the Vocative" (1872).

> "Dyalk pilak průhíví můtak ádhouk Lei věrne starcia půrep krose(st) A'gne bhrůtak vzsavak mriláta nak! Ignia časros Filofor paktyre nos."

This passage is clearly one of great antiquity, for it still recognizes Dyads, the father, as the supreme god, Earth, the mother, by his side, and Agui, fire, as the brother, not of Heaven and Earth, but of man, because living with men on the hearth of their houses. Vasu, as a general name of the bright gods, like deva in other hymns, corresponds, I believe, to the Greek adjective &s. The genitive plural ides is likewise derived from for or vasus, by Benfey (l. c. p. 51), and data vasunam (Rv. VIII. 51, 5) comes certainly very near to soche ider. The only difficulty would be the d instead of the was in ejer, the gen. sing of the in Homer, a difficulty which might be removed by tracing the gen, plur, that back to a fem, 44, corresponding to a Sk. vasavi or vasavyā. As to moders, it is phonetically the asarest approach to mrilata, f. s., "mardata, though in Greek it means " make mild " rather than " be mild." Mild and mollis come from the same root.

What gives to this passage its special value is, that in all other passages when dyans occurs as a rocative and as hisyllabic, it appears simply with the udatta, thus showing at how early a time even the Hindus forgot the meaning of the circumflex on dyans, and its legitimate appearance in that place. Thus in Rv. VIII, 100, 12, we read,—

** Sákhe Viahoo vitarám ví kramasva, Dymhi dehi lokám vágrňya viakáliho Hánůva vrdrám rináláva siodhůn Pudrasya yanta prasavé vlarálifik.**

"Friend Vishen, stride further, Dyans give mom for the lightning to leap, Let us both kill Veitra and free the rivers, Let then go, sent furth at the command of Juden."

Here, I have little doubt, the ancient Rishle pronounced Dyaus, but the later poets, and the still later Ataryas were satisfied with the acute, and with the acute the word is written here in all the MSS. I know.

I See, also, M. M.'s Lectures on the Science of Language, vol. II. p. 472.

NOTE C.

ARYAN WORDS OCCURRING IN ZERD, BUT NOT IN SANSERIT.

Ir has been objected that the three instances which I had quoted of Zend words, not occurring in Sanskrit, but preserved la one or the other of the Indo-European languages, were not sufficient to establish the fact which I wished to establish, particularly as one of them, kehrp, existed in Sanskrit, or, at least, in Vedic Sanskrit, as krip. I admit that I ought to have mentioned the Vedic krip, rather than the later kalpa; but I doubt whether the conclusions which I wished to draw would have been at all affected by this. For what I remarked with regard to kalps, applies with equal force to krip; it does not in Sanskrit mean body or flesh, like kohrp, and corpus, but simply form. But even if kohrp were not a case in point, nothing would have been easier than to replace it by other words, if at the time of printing my lecture I had had my collectanea at hand. I now subjoin a more complete list of words, present in Zend, absent in Sanskrit, but preserved in Greek, Latin, or German.

Zend ans, prep., upon; Greek šrát Goth. ana, upon. Zend erezatačna, adj., made of allver; Lat. argentinus. In Sh. we have rayatam, silver, but no corresponding adjective.

Zend i ci, ice; O. N. ter; A. S. tr; O. H. S. tr.

Grimm compares the Irish eirs, snow, and he remarks that the other Aryan languages have each framed their own words for ice, Lith. ledge, O. S. led, and distantly connected with these, through the Russian chalodayi, the Latin glacies, for gelacies, Greek spins, spends, spendage.

The root from which these Greek words for ice are derived has left several derivatives in other languages, such as Lat. crusta, and O. N. Ari-m, rime, hour-frost, and in Zend khrūta, used as an adjective of rim, winter, originally the hard winter. In Zend khrūms, and khrūms, Sk. krūms, as in Greek spečes, the meaning has changed to crudus, crudelis. In the English race, O. H. G. Ardo, a similar change of meaning may be observed.

Another name connected with ice and winter is the Zend zyao, frost, from the root hi, which has given us xxde, Sk. h i-m a, Lat. kiem-s, O. S. zima, but which in the simplest form has been preserved in Zend only and in the O. N. gq. Fick quotes gg with the doubtful meanings of cold and snow, Curtins with that of storm, identifying it with Norw. g/ö, air autumnrecent.

There is still another name for snow, absent in Sanskrit, but fully represented in Zond and the other Aryan languages, viz., Zend cwirk, to snow, Lat. vir. Goth. snais-s, Lith. snig-ti, to snow, Ir. snechia, snow, Gr. sip-s (acc).²

Zend a ê v a, one; Gr. eles.

Zend kamara, girdle, vault; Gr. seudes, vault, covered carriage; A. S. himil. Connected with this we find the Zend kamaredhe, skull, vault of head, very nearly connected with suitesper, milanteer.

Zend kareta, knife; Lith. knita-s, knife; ef. culter, Sk. kart-art, etc. The Slav. korda, O. N. kordi, Hung. kard, are treated by Justi as words borrowed from Persian.

Zend evant, Lat. quantus. Sk. has tavat, funtus, and yavat, but not kavat.

Zend garanh, reverence: Gr. yenr.

Zend thrafanh, food; Gr. -- -- --

Zend da, e. g. va@çmen-da, towards the house; Gr. sledsčei cf. Goth. du, to, O. S. do.

Zend dalti, gift; Gr. Mers; Lat. dos, diti-s, Lith. diti-z.

Zend dam i, creation; Gr. vius, law.

Zend naçu, corpse; Gr. vixort Goth. nau-n.

Zend napo, nom. sing.; A. S. nefa; O. H. G. nefo.

Zend paithy a in quepaithy a, own; Lat sua-ple, ipse, Lith. pati-s, solf.

Zend peretu, bridge; Lat. portus.

Zend fraësta, most, best; Gr. sasieres.

Zend brvat, brown; Gr. aspectes (Macedon.); Lat. froms.

Zend madh, to cure; Lat. mederi.

Zend man, in upa-man, to wait; Lat. monere.

Zend mizhda; Gr. portis; Goth. mizd-6; O. S. mizda.

Zond yare, year; Goth. jer; O. S. jara, spring.

Zend yann, yah, to gird; yanna, dress; Gr. for it foreign: O. S. po-yasu, girdle.

Zemi rāçta, straight; Lat. rectus; Goth. raiht-s.

¹ See M. M.'s Introduction to the Science of Religion, p. 372, note.

Zend rap, to go; Lat. repere.

Zend raraz, to work, vareza, work, varstva, work;

Goth. murkjan, to work; Gr. topya, his: Goth. vaurstv.

Zend vaeti, willow; Lith. vitie, withy; Lat. vitie.

Zend çtaman, mouth; Gr. vojan.

WESTMINSTER LECTURE.

ON MISSIONS!

ORLIVERED IN THE NAVE OF WESTMINSTER ABBEY, ON THE EVENING OF DECEMBER 3, 1873.

The number of religions which have attained stahility and permanence in the history of the world is very small. If we leave out of consideration those vague and varying forms of faith and worship which

1 + NOTICE.

"Westminster Abbey. Day of Intercursion for Missiant, Westmenday, December 3d, 1873. Lecture in the Nave, at eight o'clock, p. m. Hruw 25 (Ep. Heber). Wittenberg (p. 503).

"From Greenland's ley mountains,
From India's sural strands,
Where Afric's surnry fountains,
Boll down their golden sands;
From many an ancient river,
From many a palmy plain,
They call us to deliver
Their land from error's chain.

"What though the specy because
How soft o'er Coyion's isle;
Though every prospect pleases,
And only man is vile!
In vatu with lavish kindness
The gifts of God are strown;
The heathen in his kindness
Bows down to wood and stone.

"Can we whose souls are lighted With wisdom from on high, Can we to men benighted The lamp of life deay? we find among uncivilized and unsettled races, among races ignorant of reading and writing, who have neither a literature nor laws, nor even hymns and prayers handed down by oral teaching from father to son, from mother to daughter, we see that the number of the real historical religions of mankind amounts to no more than eight. The Semitic races have produced three—the Jewish, the Christian, the Mohammedan; the Aryan, or Indo-European races an equal

Salvation, O Salvation I The joyful sound proclaim, Till earth's remotest nation Has learnt Messigh's name.

"Walt, waft, yo winds, his story;
And you, ye waters, roll;
Till, lihr a sea of glory,
It spreads from pole to pole;
Till o'er our ransomed nature,
The Lamb for sharers shale,
Redeemer, King, Creator,
In bliss returns to reign.

Amen.

"There will be a Lecture delivered in the Nave, on Missions, by Professor Max Müller, M. A.

Pa. 100 (New Version) Old Hundredth (p. 21).

With one coment let all the earth
To God their cheerful voices raise;
Glad homogo pay with awful mirth,
And sing before Him songs of praise.

"Convinced that He is God alone, From Whom both we and all proceed; We whom He chooses for His own, The flock that He voucheafes to feed.

"O enter than His temple gate, Thence to His courts devoutly press; And still your grateful bymes repeat, And still His Name with punises bloss.

"For He's the Lord impremely good,
His mercy is forever sure;
His truth, which all times firmly stood,
To endlose ages shall endure. Amon."

number — the Brahman, the Buddhist, and the Parsi.
Add to these the two religious systems of China, that
of Confucius and Lao-tse, and you have before you
what may be called the eight distinct languages or
atterances of the faith of mankind from the beginning of the world to the present day; you have before you in broad outlines the religious map of the
whole world.

All these religions, however, have a history, a history more deeply interesting than the history of language, or literature, or art, or politics. Religious are not unchangeable; on the contrary, they are always growing and changing; and if they cease to grow and cease to change, they cease to live. Some of these religions stand by themselves, totally independent of all the rest; others are closely united, or have influenced each other during various stages of their growth and decay. They must therefore be studied together, if we wish to understand their real character, their growth, their decay, and their resuscitations. Thus, Mohammedanism would be unintelligible without Christianity; Christianity without Judaism; and there are similar bonds that hold together the great religions of India and Persia - the faith of the Brahman, the Buddhist, and the Parsi. After a careful study of the origin and growth of these religions, and after a critical examination of the sacred books on which all of them profess to be founded, it has become possible to subject them all to a scientific classification, in the same manner as languages, apparently unconnected and mutually unintelligible, have been scientifically arranged and classified; and by a comparison of those points which all or some of them share in common, as well as by a determination of

those which are peculiar to each, a new science has been called into life, a science which concerns us all, and in which all who truly care for religion must scener or later take their part — the Science of Religion.

Among the various classifications which have been applied to the religions of the world, there is one that interests us more immediately to-night, I mean the division into Non-Missionary and Missionary religions. This is by no means, as might be supposed, a classification based on an unimportant or merely accidental characteristic; on the contrary, it rests on what is the very heart-blood in every system of human faith. Among the six religions of the Aryan and Semitic world, there are three that are opposed to all missionary enterprise — Judaism, Brahmanism, and Zoroustrianism; and three that have a missionary character from their very beginning — Buddhism, Mohammedanism, and Christianity.

The Jews, particularly in ancient times, never thought of spreading their religion. Their religion was to them a treasure, a privilege, a blessing, something to distinguish them, as the chosen people of God, from all the rest of the world. A Jew must be of the seed of Abraham: and when in later times, owing chiefly to political circumstances, the Jews had to admit strangers to some of the privileges of their theocracy, they looked upon them, not as souls that had been gained, saved, born again into a new brotherhood, but as strangers (277), as Proselytes (*pocráheres*); which means men who have come to

Different systems of classification applied to the religions of the world are discussed in my Introduction to the Science of Religion, pp. 123-143.
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them as aliens, not to be trusted, as their saying was, until the twenty-fourth generation.

A very similar feeling prevented the Brahmana from ever attempting to preselytize those who did not by birth belong to the spiritual aristocracy of their country. Their wish was rather to keep the light to themselves, to repel intruders; they went so far as to punish those who happened to be near enough to hear even the sound of their prayers, or to witness their sacrifices.²

The Parsi, too, does not wish for converts to his religion; he is proud of his faith, as of his blood; and though he believes in the final victory of truth and light, though he says to every man, "Be bright as the sun, pure as the moon," he himself does very little to drive away spiritual darkness from the face of the earth, by letting the light that is within him shine before the world.

But now let us look at the other cluster of religions, at Buddhism, Mohammedanism, and Christianity. However they may differ from each other in some of their most essential doctrines, this they share in common — they all have faith in themselves, they all have life and vigor, they want to convince, they mean to conquer. From the very earliest dawn of their existence these three religions were missionary; their very founders, or their first spostles, recognized

^{1 &}quot;Procelyto ne fidas asque ad vigesimum quartam generationem," Jalkut Buih, L. 183, d.; Danz, in Memelson, New. Test. or Tulm. Houte, p. 631.

^{*} India, Progress and Condition, Blue Book presented to Perliament, 1873, p. 99. "It is asserted (but the asserted must be taken with reserve) that it is a mistake to suppose that the Hindu religion is not proselything. Any number of sutsiders, so long as they do not interfere with established rastes, can form a new caste, and call themselves Hindus, and the Brahmans are always ready to receive all who submit to and pay them." Car this be called proselything?

the new duty of spreading the truth, of refuting error, of bringing the whole world to acknowledge the paramount, if not the divine, authority of their doctrines. This is what gives to them all a common expression, and lifts them high above the level of the

other religious of the world.

Let us begin with Buddhism. We know, indeed, very little of its origin and earliest growth, for the earliest beginnings of all religious withdraw themaclyes by necessity from the eye of the historian. But we have something like contemporary evidence of the Great Council, held at Paraliputra, 246 B. C., in which the sacred canon of the Buddhist scriptures was settled, and at the end of which missionaries were chosen and sent forth to preach the new doctrine, not only in India, but far beyond the frontiers of that vast country. We possess inscriptions containing the edicts of the king who was to Buddhism what Constantine was to Christianity, who broke with the traditions of the old religion of the Brahmans, and recognized the doctrines of Buddha as the state religion of India. We possess the description of the Council of Pataliputra, which was to India what the Council of Nicasa, 570 years later, was to Europe; and we can still read there 2 the simple story, how the chief elder who had presided over the Conneil, an old man, too weak to travel by land, and carried from his hermitage to the Council in a boat -how that man, when the Council was over, began to reflect on the future, and found that the time had come to establish the religion of Buddha in foreign countries. He therefore dispatched some of the most eminent priests to Cashmere, Cabul, and farther west,

¹ Cf. Maharmass, cap. 5.

^{\$} Ct. Maharanso, cap. 12.

to the colonies founded by the Greeks in Bactria, to Alexandria on the Cancasus, and other cities. He eent others northward to Nepal, and to the inhabited portions of the Himslavan mountains. Another mission proceeded to the Dekhan, to the people of Mysore, to the Mahrattas, perhaps to Goa; nay, even Birma and Cevlon are mentioned as among the earliest missionary stations of Buddhist priests. We still possess accounts of their manner of preaching. When threatened by infuriated crowds, one of those Buddhist missionaries said calmly, " If the whole world, including the Deva heavens, were to come and terrify me, they would not be able to create in me fear and terror." And when he had brought the people to listen, he dismissed them with the simple prayer, "Do not hereafter give way to anger, as before; do not destroy the crops, for all men love happiness. Show mercy to all living beings, and let men dwell in peace."

No doubt, the accounts of the successes achieved by those early missionaries are exaggerated, and their fights with snakes and dragons and evil spirits remind us sometimes of the legendary accounts of the achievements of such men as St. Patrick in Ireland, or St. Boniface in Germany. But the fact that missionaries were sent out to convert the world seems beyond the reach of reasonable doubt; ¹ and this fact represents to us at that time a new thought, new, not only in the history of India, but in the history of the whole world. The recognition of a duty to preach the truth to every man, woman, and child, was an

In some of the places mentioned by the Chrosicle as among the surliest stations of Buddhist missions, relics have been discovered containing the names of the very missionaries mentioned by the Chronicle. See Kouppen, Die Religion des Buddha, p. 188.

idea opposed to the deepest instincts of Brahmanism; and when, at the end of the chapter on the first missions, we read the simple words of the old chronicler, "who would demur, if the salvation of the world is at atake?" we feel at once that we move in a new world, we see the dawn of a new day, the opening of vaster horizons—we feel, for the first time in the history of the world, the beating of the great heart of humanity.1

The Koran breathes a different spirit; it does not invite, it rather compels the world to come in. Yet there are passages, particularly in the earlier portions, which show that Mohammed, too, had realized the idea of humanity, and of a religion of humanity; nay, that at first he wished to unite his own religion with that of the Jews and Christians, comprehending all under the common name of Islâm. Islâm meant originally humility or devotion; and all who humbled themselves before God, and were filled with real reverence, were called Moslim, "The Islam," says Mohammed, "is the true worship of God. When men dispute with you, say, 'I am a Moslim.' Ask those who have sacred books, and ask the heathen; Are you Moslim?" If they are, they are on the right path; but if they turn away, then you have no other task but to deliver the message, to preach to them the Islam," 2

As to our own religion, its very soul is missionary, progressive, world-embracing; it would cease to exist, if it ceased to be missionary—if it disregarded

¹ Note A, p. 228.

Teldin is the verbal noun, and Meelies the participle of the same root, which also yields Solden, peace, and soldes and solyes, whole, honest. Italia means, therefore, to entirty or pacify by fortherance; it also means simply subjection." Springer, Medianness, i. p. 03, III, 485.

the parting words of its Founder: "Go ye therefore and teach all nations, baptizing them in the name of the Father, and of the Son, and of the Holy Ghost; teaching them to observe all things I have commanded; and, Io, I am with you alway, even unto the end of the world."

It is this missionary character, peculiar to these three religious, Buddhism, Mohammedanism, and Christianity, which binds them together, and lifts them to a higher sphere. Their differences, no doubt, are great; on some points they are opposed to each other like day and night. But they could not be what they are, they could not have achieved what they have achieved, unless the spirit of truth and the spirit of love had been alive in the hearts of their founders, their first messengers, and missionaries.

The spirit of truth is the life-spring of all religion, and where it exists it must manifest itself, it must plead, it must persuade, it must convince and convert. Missionary work, however, in the usual sense of the word, is only one manifestation of that spirit; for the same spirit which fills the heart of the missionary with daring abroad, gives courage also to the preacher at home, bearing witness to the truth that is within him. The religious which can boast of missionaries who left the old home of their childhood, and parted with parents and friends - never to meet again in this life - who went into the wilderness, willing to spend a life of toil among strangers, ready, if need be, to lay down their life as witnesses to the truth, as martyrs for the glory of God - the same religions are rich also in those honest and intrepid inquirers who, at the bidding of the same spirit of trath,

were ready to leave behind them the cherished creed of their childhood, to separate from the friends they loved best, to stand alone among men that shrug their shoulders, and ask, "What is truth?" and to bear in silence a martyrdom more galling often than death itself. There are men who say that, if they held the whole truth in their hand, they would not open one finger. Such men know little of the working of the spirit of truth, of the true missionary spirit. As long as there are doubt and darkness and anxiety in the soul of an inquirer, reticence may be his patural attitude. But when once doubt law yielded to certainty, darkness to light, anxiety to joy, the rays of truth will burst forth; and to close our hand or to shut our lips would be as impossible as for the petals of a flower to slmt themselves against the summons of the sun of spring.

What is there in this short life that should seal our lips? What should we wait for, if we are not to speak here and nose? There is missionary work at home as much as abroad; there are thousands waiting to listen if one man will but speak the truth, and nothing but the truth; there are thousands starving, because they cannot find that food which is convenient for them.

And even if the spirit of truth might be chained down by fear or pradence, the spirit of love would never yield. Once recognize the common brotherhood of mankind, not as a mane or a theory, but as a real bond, as a bond more binding, more lasting than the bonds of family, easte, and race, and the questions, Why should I open my hand? why should I open my heart? why should I speak to my brother? will never be asked again. Is it not far better to speak than to walk through life silent, unknown, unknowing? Has any one of us ever spoken to his friend, and opened to him his inmost soul, and been answered with harshness or repelled with scorn? Has any one of us, be he priest or layman, ever listened to the honest questionings of a truth-loving soul, without feeling his own soul filled with love? aye, without feeling humbled by the very honesty of a brother's confession?

If we would but confess, friend to friend, if we would be but honest, man to man, we should not

want confessors or confessionals.

If our doubts and difficulties are self-made, if they can be removed by wiser and better men, why not give to our brother the opportunity of helping us? But if our difficulties are not self-made, if they are not due either to ignorance or presumption, is it not even then better for us to know that we are all carrying the same burden, the common burden of humanity, if haply we may find, that for the heavy laden there is but one who can give them rest?

There may be times when silence is gold, and speech silver; but there are times also when silence is death, and speech is life—the very life of Pente-

'cost.

How can man be afraid of man? How can we be afraid of those whom we love?

Are the young afraid of the old? But nothing delights the older man more than to see that he is trusted by the young, and that they believe he will tell them the truth.

Are the old afraid of the young? But nothing sustains the young more than to know that they do not stand alone in their troubles, and that in many trials of the soul the father is as helpless as the child. Are the women afraid of men? But men are not wiser in the things appertaining to God than women, and real love of God is theirs far more than ours.

Are men afraid of women? But though women may hide their troubles more carefully, their heart aches as much as ours, when they whisper to themselves, "Lord, I believe, help thou my unbelief."

Are the laity afraid of the clergy? But where is the clergyman who would not respect honest doubt

more than unquestioning faith?

Are the clergy afraid of the laity? But surely we know, in this place at least, that the clear voice of honesty and humility draws more hearts than the harsh accents of dogmatic assurance or ecclesiastic exclusiveness.

> "There lives more faith in honest doubt," Believe me, than in half the creeds."

A missionary must know no fear; his heart must overflow with love — love of man, love of truth, love of God; and in this, the highest and truest sense of the word, every Christian is, or ought to be, a missionary.

And now, let us look again at the religions in which the missionary spirit has been at work, and compare them with those in which any attempt to convince others by argument, to save souls, to bear witness to the truth, is treated with pity or second.

The former are alive, the latter are dying or dead.

The religion of Zoroaster—the religion of Cyrus, of Darius and Xerxes—which, but for the battles of Marathon and Salamis, might have become the religion of the civilized world, is now professed by only 100,000 souls—that is, by about a ten-thousandth part of the inhabitants of the world. During the

last two centuries their number has steadily deereased from four to one hundred thousand, and another century will probably exhaust what is still left of the worshippers of the Wise Spirit, Ahuramaxda.

The Jews are about thirty times the number of the Parsis, and they therefore represent a more appreciable portion of mankind. Though it is not likely that they will ever increase in number, yet such is their physical vigor and their intellectual tensoity, such also their pride of race and their faith in Jehovah, that we can hardly imagine that their patriarchal religion and their ancient customs will soon vanish from the face of the earth.

But though the religions of the Parsis and Jews might justly seem to have paid the penalty of their anti-missionary spirit, how, it will be said, can the same be maintained with regard to the religion of the Brahmans? That religion is still professed by at least 110,000,000 of human souls, and, to judge from the last census, even that enormous number falls much short of the real truth. And yet I do not shrink from saying that their religion is dying or dead. And why? Because it cannot stand the light of day. The worship of Siva, of Vishau, and the other popular deities, is of the same, nay, in many cases of a more degraded and savage character than the worship of Jupiter, Apollo, and Minerva; it belongs to a stratum of thought which is long buried beneath our feet: it may live on, like the lion and the tiger, but the mere air of free thought and civilized life will extinguish it. A religion may linger on for a long time, it may be accepted by the large masses of the people, because it is there, and there is

nothing better. But when a religion has ceased to produce defenders of the faith, prophets, champions, martyrs, it has ceased to live, in the true sense of the word; and in that sense the old, orthodox Brahmanism has ceased to live for more than a thousand years.

It is true there are millions of children, women, and men in India who fall down before the stone image of Vishnu, with his four arms, riding on a creature half bird, half man, or sleeping on the serpent; who worship Siva, a monster with three eves, riding naked on a bull, with a neeklace of skulls for his ornament. There are human beings who still believe in a god of war, Karrikeya, with six faces, riding on a peacock, and holding bow and arrow in his hands; and who invoke a god of success, Ganesa, with four hands and an elephant's head, sitting on a rat. Nay, it is true that, in the broad daylight of the nineteenth century, the figure of the goldess Kali is carried through the streets of her own city. Calcutta,1 her wild disheveled hair reaching to her feet, with a necklace of human heads, her tongue protruded from her mouth, her girdle stained with blood. All this is true; but ask any Hindu who can read and write and think, whether these are the gods he believes in, and he will smile at your credulity. How long this living death of national religion in India may last, no one can tell: for our purposes, however, for gaining an idea of the issue of the great religious struggle of the future, that religion too is dead and gone.

The three religions which are alive, and between

¹ Lassen Indische Alterthuoukunde, vol. iv. p 685. Cf. Imlian Astaquery, 1873, p. 870. Academy, 1874, p. 61.

which the decisive battle for the dominion of the world will have to be fought, are the three missionary religions, Buddhism, Mohammedanism, and Christianity. Though religious statistics are perhaps the most uncertain of all, yet it is well to have a general conception of the forces of our enemies; and it is well to know that, though the number of Christians is double the number of Mohammedans, the Buddhist religion still occupies the first place in the religious census of mankind.¹

Buddhism rules supreme in Central, Northern, Eastern, and Southern Asia, and it gradually absorbs whatever there is left of aboriginal heathenism in that vast and populous area.

Mohammedanism claims as its own Arabia, Persia, great parts of India, Asia Minor, Turkey, and Egypt; and its greatest conquests by missionary efforts are made among the heathen population of Africa.

Christianity reigns in Europe and America, and it is conquering the native races of Polynesia and Melanesia, while its missionary outposts are scattered all over the world.

Between these three powers, then, the religious battle of the future, the Holy War of mankind, will have to be fought, and is being fought at the present moment, though apparently with little effect. To convert a Mohammedan is difficult; to convert a Buddhist, more difficult still; to convert a Christian, let us hope, well nigh impossible.

What then, it may be asked, is the use of missionaries? Why should we spend millions on foreign missions, when there are children in our cities who

¹ Chips from a German Worlshop, vol. i.; Empy on the Science of Religion, pp. 101, 216.

are allowed to grow up in ignorance? Why should we deprive ourselves of some of the noblest, boldest, most ardent and devoted spirits and send them into the wilderness, while so many laborers are wanted in

the vineyard at home.

It is right to ask these questions; and we ought not to blame those political economists who tell us that every convert costs as £200, and that at the present rate of progress it would take more than 200,000 years to evangelize the world. There is nothing at all startling in these figures. Every child born in Europe is as much a heathen as the child of a Melanesian cannibal; and it costs as more than £200 to turn a child into a Christian man. The other calculation is totally erroneous; for an intellectual harvest must not be calculated by adding simply grain to grain, but by counting each grain as a living seed, that will bring forth fruit a hundred and a thousand fold.

If we want to know what work there is for the missionary to do, what results we may expect from it, we must distinguish between two kinds of work: the one is parental, the other controversial. Among uncivilized races the work of the missionary is the work of a parent; whether his pupils are young in years or old, he has to treat them with a parent's love, to teach them with a parent's authority; he has to win them, not to argue with them. I know this kind of missionary work is often despised; it is called mere religious kidnapping; and it is said that missionary success obtained by such means proves nothing for the truth of Christianity; that the child handed over to a Mohammedan would grow up a Mohammedan, as much as a child taken by a Christian

missionary becomes a Christian. All this is true, missionary success obtained by such means proves nothing for the truth of our creeds; but it proves, what is far more important, it proves Christian love. Read only the "Life of Patteson," the bishop of Melanesia; follow him in his vessel, sailing from island to island, begging for children, carrying them off as a mother her new-born child, nursing them, washing and combing them, clothing them, feeding them, teaching them in his Episcopal Palace, in which he himself is everything, nurse, and housemaid, and cook, schoolmaster, physician, and bishop -read there, how that man who tore himself away from his aged father, from his friends, from his favorite studies and pursuits, had the most loving of hearts for these children, how indignantly he repelled for them the name of savages, how he trusted them, respected them, honored them, and when they were formed and stablished, took them back to their island home, there to be a leaven for future ages. Yes, read the life, the work, the death of that man, a death in very truth, a ransom for the sins of others - and then say whether you would like to suppress a profession that can call forth such selfdenial, such heroism, such sanctity, such love. It has been my privilege to have known some of the finest and noblest spirits which England has produced during this century, but there is none to whose memory I look up with greater reverence, none by whose friendship I feel more deeply humbled than by that of that true saint, that true martyr, that truly parental missionary.

The work of the parental missionary is clear, and its success undeniable, not only in Polynesia and Melanesia, but in many parts of India — (think only of the bright light of Tinnevelly) – in Africa, in China, in America, in Syria, in Turkey, aye, in the very heart of London.

The case is different with the controversial missionary, who has to attack the faith of men brought up in other religions, in religions which contain much truth, though mixed up with much error. Here the difficulties are immense, the results very discouraging. Nor need we wonder at this. We know, each of us, but too well, how little argument avails in theological discussion; how often it produces the very opposite result of what we expected; confirming rather than shaking opinions no less erroneous, no less indefensible, than many articles of the Mohammedan or Buddhist faith.

And even when argument proves successful, when it forces a verdict from an unwilling judge, how often has the result been disappointing; because in tearing up the rotten stem on which the tree rested, its tenderest fibres have been injured, its roots unsettled, its life destroyed.

We have little ground to expect that these controversial weapons will carry the day in the struggle between the three great religions of the world.

But there is a third kind of missionary activity, which has produced the most important results, and through which alone, I believe, the final victory will be gained. Whenever two religions are brought into contact, when members of each live together in peace, abstaining from all direct attempts at conversion, whether by force or by argument, though conscious all the time of the fact that they and their religion are on their trial, that they are being watched, that

they are responsible for all they my and do—the effect has always been the greatest blessing to both. It calls out all the best elements in each, and at the same time keeps under all that is felt to be of doubtful value, of uncertain truth. Whenever this has happened in the history of the world, it has generally led either to the reform of both systems, or to the

foundation of a new religion.

When after the conquest of India the violent measures for the conversion of the Hindus to Mohammedanism had ceased, and Mohammedans and Brahmans lived together in the enjoyment of perfect equality, the result was a purified Mohammedanism, and a purified Brahmanism.1 The worshippers of Vishna, Siva, and other deities became ashamed of these mythological gods, and were led to admit that there was, either over and above these individual deities, or instead of them, a higher divine power (the Para-Brahma), the true source of all being, the only and almighty ruler of the world. That religious movement assumed its most important development at the beginning of the twelfth century, when Ramanuga founded the reformed sect of the worshippers of Vishan; and again, in the fourteenth century, when his fifth successor, Râmânanda, imparted a still more liberal character to that powerful sect. Not only did he abolish many of the restrictions of caste, many of the minute ceremonial observances in eating, drinking, and bathing, but he replaced the classical Sanskrit - which was unintelligible to the large masses of the people - by the living vernaculars, in which he preached a purer worship of God.

¹ Lauren, Indiche Alterthumalunde, vol. iv. p. 606; Wilson, Amater Researcher, avi. p. 21.

The most remarkable man of that time was a weaver, the pupil of Râmânanda, known by the name of Kabir. He indeed deserved the name which the members of the reformed sect claimed for themnelves, Avadhuta, which means one who has shaken off the dust of superstition. He broke entirely with the popular mythology and the customs of the ceremonial law, and addressed himself alike to Hindu and Mohammedan. According to him, there is but one God, the creator of the world, without beginning and end, of inconceivable purity, and irresistible strength. The pure man is the image of God, and after death attains community with God. The commandments of Kabir are few: Not to injure anything that has life, for life is of God; to speak the truth; to keep aloof from the world; to obey the teacher. His poetry is most beautiful, hardly surpassed in any other language.

Still more important in the history of India was the reform of Nanak, the founder of the Sikh religion. He, too, worked entirely in the spirit of Kabir. Both labored to persuade the Hindus and Mohammedans that the truly essential parts of their creeds were the same, that they ought to discard the varieties of practical detail, and the corruptions of their teachers, for the worship of the One Only Supreme,

whether he was termed Allah or Vishnu.

The effect of these religious reforms has been highly beneficial; it has cut into the very roots of idolatry, and has spread throughout India an intelligent and spiritual worship, which may at any time develop into a higher national creed.

The same effect which Monammedanism produced on Hinduism is now being produced, in a much

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higher degree, on the religious mind of India by the mere presence of Christianity. That silent influence began to tell many years ago, even at a time when no missiomries were allowed within the territory of the old East India Company. Its first representative was Ram Mohan Roy, born just one hundred years ago, in 1772, who died at Bristol in 1833, the founder of the Brahma-Samaj. A man so highly cultivated and so highly religious as he was, could not but feel humiliated at the spectacle which the popular religion of his country presented to his English friends. He drew their attention to the fact that there was a purer religion to be found in the old sacred writings of his people, the Vedas. He went so far as to claim for the Vedas a divine origin, and to attempt the foundation of a reformed faith on their authority. In this attempt he failed.

No doubt the Vedas and other works of the ancient poets and prophets of India, contain treasures of truth, which ought never to be forgotten, least of all by the sons of India. The late good Bishop Cotton, in his address to the students of a missionary institution at Calcutta, advised them to use a certain hymn of the Rig-Veda in their daily prayers, 1 Nowhere do we find stronger arguments against idolatry, nowhere has the unity of the Deity been upheld more strenuously against the errors of polytheism than by some of the ancient sages of India. Even in the claest of their sacred books, the Rig-Veda, composed three or four thousand years ago - where we find hymns addressed to the different deities of the sky, the air, the earth, the rivers-the protest of the human heart against many gods, breaks forth from time to

¹ See Brahmie Questions of the Dog, 1860, p. 10.

time with no uncertain sound. One poet, after he line asked to whom sacrifice is due, answers, "to Him who is God above all gods." Another poet, after enumerating the names of many deities, affirms, without hesitation, that "these are all but names of Him who is One." And even when single deities are invoked, it is not difficult to see that, in the mind of the poet, each one of the names is meant to express the highest conception of deity of which the human mind was then capable. The god of the sky is called Father and Mother and Friend; he is the Creator, the Upholder of the Universe; he rewards virtue and punishes sin; he listens to the prayers of those who love him.

But granting all this, we may well understand why an attempt to claim for these books a divine origin, and thus to make them an artificial foundation for a new religion, failed. The successor of Ram Mohan Roy, the present head of the Brahma-Samaj, the wise and excellent Debendranath Tagore, was for a time even more decided in holding to the Vedaa as the sole foundation of the new faith. But this could not last. As soon as the true character of the Vedas,2 which but few people in India can understand, became known, partly through the efforts of mative, partly of European scholars, the Indian reformers relinguished the claim of divine inspiration in favor of their Vedas, and were satisfied with a selection of passages from the works of the ancient sages of India, to express and embody the creed which the members of the Brahma-Samaj hold in common.8

A Brief History of the Coloutto Brihms-Sambi, 1868, p. 15.

¹ History of Ancient Sandrit Literature, by M. M. (2d ed.) p. 509.

7 The Adi Hyahma-Sanati, In viewanad Principles, Calcutta, 1810, p. 18.

The work which these religious reformers have been doing in India is excellent, and those only who know what it is, in religious matters, to break with the past, to forsake the established custom of a nation, to oppose the rush of public opinion, to brave adverse criticism, to submit to social persecution, can form any idea of what those men have suffered, in bearing witness to the truth that was within them.

They could not reckon on any sympathy on the part of Christian missionaries; nor did their work attract much attention in Europe till very lately, when a schism broke out in the Brahma-Samai between the old conservative party and a new party, led by Keshub Chunder Sen. The former, though willing to surrender all that was clearly idolatrous in the ancient religion and customs of India, wished to retain all that might safely be retained; it did not wish to see the religion of India denationalized. The other party, inspired and led by Keshub Chunder Sen, went further in their zeal for religious purity. All that smacked of the old leaven was to be surrendered; not only caste, but even that sacred cord - the religious riband which makes and marks the Brahman, which is to remind him at every moment of his life, and whatever work he may be engaged in, of his God, of his ancestors, and of his children - even that was to be abandoned; and instead of founding their creed exclusively on the utterances of the ancient sages of their own country, all that was best in the sacred books of the whole world was selected and formed into a new sacred code.1

The schism between these two parties is deeply to be deplored; but it is a sign of life. It augus success rather than failure for the future. It is the same schism which St. Paul had to heal in the Church of Corinth, and he healed it with the words, so often misunderstood, "Knowledge puffeth up, but charity edifieth."

In the eyes of our missionaries this religious reform in India has not found much favor; nor need we wonder at this. Their object is to transplant, if possible, Christianity in its full integrity from England to India, as we might wish to transplant a full-grown tree. They do not deny the moral worth, the noble aspirations, the self-sacrificing zeal of these native reformers; but they fear that all this will but increase their dangerous influence, and retard the progress of Christianity, by drawing some of the best minds of India, that might have been gained over to our religion, into a different current. They feel towards Keshub Chunder Sen 1 as Athanasius might have felt towards Ulfilas, the Arian Bishop of the Goths: and yet, what would have become of Christianity in Europe but for those Gothic races, but for those Arian heretics, who were considered more dangerous than downright pagans?

If we think of the future of India, and of the inflaence which that country has always exercised on the East, the movement of religious reform which is now going on appears to my mind the most momentous in this momentous century. If our missionaries feel constrained to repudiate it as their own work, history will be more just to them than they themselves.

1 Sen Note C, p. 272.

² The Indian Mirror (Sept. 10, 1800) constantly treats of missionary afforts of various kinds in a spirit which is not only friendly, but even its stress of reciprocal sympathy; and hopeful that whatever differences rayy saist between them (the missionaries) and the Brahmer, the two parties

And if not as the work of Christian missionaries, it will be recognized hereafter as the work of those missionary Christians who have lived in India, as examples of a true Christian life, who have approached the natives in a truly missionary spirit, in the spirit of truth and in the spirit of love; whose bright presence has thawed the ice, and brought out beneath it the old soil, ready to blossom into new life. These Indian puritans are not against us; for all the highest purposes of life they are with us, and we, I trust, with them. What would the early Christians have said to men, outside the pale of Christianity, who spoke of Christ and his doctrine as some of these Indian reformers? Would they have said to them, "Unless you speak our language and think our thoughts, unless you accept our Creed and sign our Articles, we can have nothing in common with you."

O that Christians, and particularly missionaries, would lay to heart the words of a missionary Bishop! I "I have for years thought," writes Bishop Patteson, "that we seek in our missions a great deal too much to make English Christians. . . . Evidently the heathen man is not treated fairly, if we encumber our message with unnecessary requirements. The ancient Church had its 'selection of fundamentals.' Any one can see what mistakes we have made in India. . . . Few men think themselves into the state of the Eastern mind. . . . We seek to denationalize

will heartily combine as brethren to exterminate idelatry, and promote true morality is India.

Many of our ministers and leading man, may the Paties Mirror, are recruited from missionary schools, which, by affording religious education, prove more favorable to the growth and spread of Brahmonou than governcents ecissofs with Courts and Secularian (Justice Theises, by S. D. Collet, 1870, p. 22).

1 Life of John Colvellon Patteron, by C. M. Yonge, H. p. 167.

these races, as far as I can see; whereas we ought surely to change as little as possible—only what is clearly incompatible with the simplest form of Christian teaching and practice. I do not mean that we are to compromise truth . . . but do we not overlay it a good deal with human traditions!"

If we had many such missionaries us Bishop Patteson and Bishop Cotton, if Christianity were not only preached, but lived in that spirit, it would then prove itself what it is — the religion of humanity at large, large enough itself to take in all shades and diversities of character and race.

And more than that — if this true missionary spirit, this spirit of truth and love, of forbearance, of trust, of toleration, of humility, were once to kindle the hearts of all those chivalrons ambassadors of Christ, the message of the Gospel which they have to deliver would then become as great a blessing to the giver as to the receiver. Even now, missionary work unites, both at home and abroad, those who are widely separated by the barriers of theological sects.

5 "The large body of European and American missionaries vettled in India bring their various moral influences to bear upon the country with the greater force, because they act together with a compactness which is but little understood. Though belonging to various denominations of Christians, yet from the nature of their work, their isolated position, and their long experience, they have been led to think rather of the numerous questions on which they agree, than of those on which they differ, and they cooperate heartly together. Lecalities are divided among them by friendly arrangements, and, with a few exceptions, it is a fixed rule annual them that they will not leterfore with such other's converts and such other's spheres of duty. School books, translations of the Scriptures and religious works, prepared by various missions, are used in common; and help and improvements secured by one mission are freely placed at the command of gill. The large body of missionaries resident in each of the presidency name form missionary conferences, hold periodic meetings, and get together on public matters. They have frequently addressed the Indian

It might do so far more still. When we stand before a common enemy, we soon forget our own small feuds. But why? Often, I fear, from motives of pradence only and selfishness. Can we not, then, if we stand in spirit before a common friend -can we not, before the face of God, forget our small feuds, for very shame? If missionaries admit to their fold converts who can hardly understand the equivocal abstractions of our creeds and formulas, is it necessary to exclude those who understand them but too well to submit the wings of their free spirit to such galling chains! When we try to think of the majesty of God, what are all those formulas but the stammerings of children, which only a loving father can interpret and understand! The fundamentals of our religion are not in these poor creeds; true Christianity lives, not in our belief, but in our love - in our love of God, and in our love of man, founded on our love of God.

That is the whole Law and the Prophets, that is the religion to be preached to the whole world, that is the Gospel which will conquer all other religions —even Buddhism and Mohammedanism—which will win the hearts of all men.

There can never be too much love, though there may be too much faith — particularly when it leads to the requirement of exactly the same measure of faith in others. Let those who wish for the true

government on important social questions involving the walfare of the mattree community, and have suggested valuable improvements in existing laws. During the past twenty years, on five occasions, general conferences have been held for mutual coronilation respecting their mindonary works; and in January last, at the latest of these gatherings, at Allahabad, 721 mindinaries mut together, belonging to twenty different colleties, and including several men of long experience who have been twenty years in India. ** India, Progress and Condition, 1873, p. 134.

success of missionary work learn to throw in of the abundance of their faith; let them learn to demand less from others than from themselves. That is the best offering, the most valuable contribution which they can make to-day to the missionary cause.

Let missionaries preach the Gospel again as it was preached when it began the conquest of the Roman Empire and the Gothic nations; when it had to struggle with powers and principalities, with time-honored religions and triumphant philosophies, with pride of civilization and savagery of life—and yet came out victorious. At that time conversion was not a question to be settled by the acceptance or rejection of certain formulas or articles; a simple prayer was often enough; "God be merciful to me a sin-ner."

There is one kind of faith that revels in words, there is another that can hardly find utterance ; the former is like riches that come to us by inheritance; the latter is like the daily bread, which each of us has to win in the sweat of his brow. We cannot expect the former from new converts; we ought not to expect it or to exact it, for fear that it might lead to hypocrisy or superstition. The mere believing of miracles, the mere repeating of formulas requires no effort in converts, brought up to believe in the Purasas of the Brahmans or the Buddhist Gatakas. They find it much easier to accept a legend than to love God, to repeat a creed than to forgive their enemies. In this respect they are exactly like ourselves. Let missionaries remember that the Christian faith at home is no longer what it was, and that it is impossible to have one Creed to preach abroad, another to preach at home. Much that was formerly

considered as essential is now neglected; much that was formerly neglected is now considered as essential. I think of the laity more than of the clergy; but what would the clergy be without the laity? There are many of our best mon, men of the preatest power and influence in literature, science, art, politics, ave even in the Church itself, who are no longer Christian in the old sense of the word. Some imagine they have ceased to be Christians altogether, because they feel that they cannot believe as much as others profess to believe. We cannot afford to lose these men, nor shall we lose them if we learn to be satisfied with what satisfied Christ and the Apostles, with what satisfies many a hard-working missionary. If Christianity is to retain its hold on Europe and America, if it is to conquer in the Holy War of the future, it must throw off its heavy armor, the helmet of brass and the coat of mail, and face the world like David, with his staff, his stones, and his sling. We want less of creeds, but more of trust; less of ceremony, but more of work; less of solemnity, but more of genial honesty; less of doctrine, but more of love. There is a faith, as small as a grain of mustard-seed, but that grain alone can move mountains, and more than that, it can move hearts. Whatever the world may say of us, of us of little faith, let us remember that there was one who accepted the offering of the poor widow. She threw in but two mites, but that was all she had, even all her living.

NOTES.

NOTE A.

Mahadayamipi ginnssa kaddhanam, Vilihya pattasi amatasi sakham pi tu Karismu lohassa hitaw tahisi tahim, Dhaveyya ko lokahito pamihava?

The first line is elliptical.

(Imitating) the resignation of the all-merciful Conqueror,
They also, resigning the deathless tiles within their reach,
Worked the welfars of mankind in various lands.
What man is there who would be runies in doing good to mankind?

Hardy, in his "Manual of Buddhism" (p. 187), relates how fifty-four primes and a thousand fire-worshippers became the disciples of Buddha. "Whilst Buddha remained at Isipatana, Yasa, the son of Sajata, who had been brought up in all delicacy, one night went secretly to him, was received with affection, became a priest, and entered the first path. The father, on discovering that he had fied, was disconsolate: but Buildha deliycred to him a discourse, by which he became a rahat. The fiftyfour companions of Yasa went to the monastery to induce him to return, and play with them as usual; but when they saw him, they were so struck with his manner and appearance, that they also resolved on becoming pricats. When they went to Buddha, they were admitted, by the power of irdhireceived the pirikara requirites of the priesthood, and became rahats. Buddha had now sixty disciples who were rahats, and he commanded them to go by different ways, and proclaim to all that a supremu Lemidha had appeared in the world."

Mr. Childers has kindly sent me the following extract from Fausboll's "Dhammapada" (p. 119), where the same story is told:—

... Yasakulaputtassa upanissayasanpattim disvå tam rattibhäge nilhiggitvä geham pahäya nikkhantam isahi Yasati " 268 NOTES.

pakkositvä, tasmiä sieva rattibhäge sotäpattiphalam punadivase arahattam püpesi. Apare pi tassa sahayake katupannüsagane ebibbikkhupabbaccaya pabbaccaya arabattam papesi. Evass loke ekasatthiya urahantesu gatesu vutthavasso pavarotva "kuratha bhikkhave Eirikan " ti sanbin bhikkhû disası pesetvi. " Seeing that the young nobleman Yasu was ripe for conversion, in the night, when weary with the vanities of the world he had left his bome and embraced the ascetic life, -he called him, saving, ' Follow me, Yasa,' and that yerr night he caused him to obtain the fruition of the first path, and on the following day arhatship. And fifty-four other persons, who were friends of Yasa's, he ordained with the formula, 'Follow me, priest,' and caused them to attalu arhatship. Thus when there were sixtyone arhats in the world, having passed the period of sociusion during the rains and resumed active duties, he sent forth the sixty priests in all directions, saying, ' Go forth, priests, on your rounds (or travels)." "

Another passage, too, showing Buddha's desire to see his doctrine preached in the whole world, was pointed out to me by Mr. Childers from the "Mahaparinibhana Sutta," which has since been published by this indefatigable scholar in the "Jour-

nal of the Royal Asiatic Society," vol. vii., p. 77: -

Three months before his death, when Gautama's health and strength is fast falling, he is tempted by Mara, who comes to him and urges him to bring his life and mission at once to a close by attaining Nirvana (dying). Buddha replies that he will not die until his disciples are perfect on all points, and able to maintain the Truth with power against all unbelievers. Mara replies that this is already the case, whereupon Buddha uses these striking words: Na tāvāham pāpima parinibbāvissāmi yava me iman brahmabariyan na iddhafi & eva bhavissati phitaā ka vitthārikam bāhujanāam puthubhūtam, yāvad eva manuschi suppakasitan ti. O wicked one, I will not die until this my holy religion thrives and prospers, until it is whilely spread, known to many peoples, and grown great, until it is completely published among men.' Mara again asserts that this is already the case, and Buddha replies, 'Strive no more, wicked one, the death of the Tathagata is at hand, at the end of three months from this time, the Tathagata will attain Nirvana.""

NOTE B.

THE SCHIM IN THE BRAHMA-SAMES!

The present position of the two parties in the Brakma-Samai is well described by Rajnarain Bose (the " Adi Brahmo Samu]," Calcutta, 1873, p. 11). "The particular opinions above referred to can be divided into two comprehensive classes - conservative and progressive. The conservative Brahmos are those who are unwilling to push religious and social reformation to any great extreme. They are of opinion that reformation should be gradual, the law of gradual progress being universally prevalent in nature. They also say that the principle of Brahmic harmony requires a harmonious discharge of all our duties, and that, as it is a duty to take a part in reformation, so there are other duties to perform, namely, those towards parents and society, and that we should harmonize all these duties as much as we can. However unsatisfactory such arguments may appear to a progressive Brahmo, they are such as could not be slighted at first eight. They are certainly such as to make the conservative Brahmo think sincerely that he is justified in not pushing religious and social reformation to any great extreme. The progressive Brahme cannot therefore call him a hypocrite. A union of both the conservative and the progressive elements in the Brahmo church is necessary for his stability. The conservative element will prevent the progressive from spolling the cause of reformation by taking premature and abortive measures for advancing that cause; the progressive element will prevent the conservative from proving a stolld obstruction to it. The conservative element will serve as a link between the progressive element and the orthodox community, and prevent the progressive Brahmo from being completely estranged from that community, as the native Christians are; while the progressive element will prevent the conservative from remaining inert and being absorbed by the orthodox community. The common interests of Brahmo Dhar-

⁴ Brahma-Samhi, the Church of Brahma, is the general fills. When the schism took place, the original Samhi was called Arii Brahma-Samhi, 6, c., the First Church of Brahma, while the progressive party, under Keshub Chunder Sen was distinguished by the name of the Brahma-Samhi of India. The vowels a and a are often the same in Bengali, and are sometimes and for a.

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ma should lead both classes to respect, and be on amicable terms with each other. It is true the progressive of the present half century will prove the conservative of the next; but there could never come a time when the two classes would cease to exist in the become of the church. She should, like a wise mother, make them live in peace with each other, and work harmoniously together for her bonefit.

"As idolatry is intimately interwoven with our social fabric, conservative Brahmos, though discarding it in other respects, find it very difficult to do so on the occasion of such very important domestic ceremonies as marriage, shradh (ancestral sacrifices), and upanayana (spiritual apprenticing); but they should consider that Brahmoism is not so imperative on any other point as on the renunciation of idolatry. It can allow conservation in other respects, but not on the point of idolatry. It can consider a man a Brahmo if he be conservative in other respects thun idolatry; but it can never consider an idolater to be a Brahmo. The conservative Brahmo can do one thing, that is, observe the old ritual, leaving out only the idolatrous portion of it, if he do not choose to follow the positive Brahmo ritual laid down in the 'Anushthana Paddhati.' Liberty should be given by the progressive Brahmo to the conservative Brahmo in judging of the idolatrous character of the portions of the old ritual rejected by him. If a progressive Brahmo requires a conservative one to reject these portions which the former considers to be idolatrous, but the latter does not, be denies liberty of conscience to a fellow-Brahmo.

"The Adi Brahmo-Samaj is the national Hindu Theistic Church, whose principles of church reformation we have been describing above. Its demeanor towards the old religion of the country is friendly, but corrective and reformative. It is this circumstance which preeminently distinguishes it from the Brahmo-Samaj of India, whose attitude to that religion is antagonistic and offensive. The mission of the Adi Samaj is to fulfill the old religion, and not to destroy it. The attitude of the Adi Samaj to the old religion is friendly, but it is not at the same time opposed to progress. It is a mistake to call it a conservative church. It is rather a conservative-progressive church, or, more correctly, simply a church or religious body, leaving matters of social reformation to the judgments of individual members or bodies of such members. It contains both progressive and con-

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servative members. As the ultra-progressive Brahmos, who wanted to eliminate the conservative element from it, were chilged to secole from it, as if a high conservative party arise in its bosom which would attempt to do violence to the progressive element and convert the church into a partly conservative one, that party also would be obliged to secode from it. Only men who can be tolerant of each other's opinions, and can respect each other's carnest convictions, progressive and conservative, can remain its members."

NOTES.

The strong national feeling of the Indian reformers finds expression in the following passage from "Brahmie Questions,"

p. 9: -

A Samai is accessible to all. The minds of the majority of our countrymen are not deeply saturated with Christian sentiments. What would they think of a Brahmo minister who would quote on the Vedi (altar) sayings from the Bible? Would they not from that time conceive an intolerable hatred towards Brahmolem and everything Brahmo? If quoting a sentence from the Bible or Koran offend our countrymen, we shall not do so. Truth is as cutholic when taken from the Sherras as from the Keran or the Bible. True liberality consists, not in quoting texts from the religious Scriptures of other nations, but in bringing up, as we advance, the year who are greveling in ignorance and superstition. We certainly do not not against the dietates of conscience, if we quote texts from the Hindu Sanras only, and not from all the religious Scriptures of all the countries on the face of the globe. Moreover, there is not a single saying in the Scriptures of other nations, which has not its counterpart in the Sastras, "

And again in "The Adl Brahma-Sama], its Views and Prin-

ciples," p. 1:-

The members of the Adi Samaj, siming to diffuse the tesths of Theirm among their own nation, the Hindus, have naturally adopted a Hindu mode of propagation, just as an Arab Theist would adopt an Arabian mode of propagation, and a Chinese Theist a Chinese one. Such differences in the aspect of Theism in different countries must naturally arise from the usual course of things, but they are adventitions, not essential, national, not sectorian. Although Brahmoism is universal religion, it is impossible to communicate a universal form to it. It must wear a particular form in a particular country. A so-called universal

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form would make it appear grotesque and ridicalous to the nation or religious denomination among whom it is intended to be propagated, and would not command their reneration. In conformity with such views, the Adi Samaj has adopted a Hindu form to propagate Theism among Hindus. It has therefore retained many innocent Hindu usages and customs, and has adopted a form of divine service containing passages extracted from the Hindu Sästras only, a book of Theistic texts containing selections from those secred books only, and a rimal containing as much of the ancient form as could be kept consistently with the dictates of conscience."

NOTE C.

EXTRACTS FROM KESSES CHUNDER SEN'S LECTURE ON CHEST AND CRESTIANTITY, 1870.

"Why have I cherished respect and reverence for Christ?
... Why is it that though I do not take the name of 'Christian,' I still persevere in offering my hearty thanksgivings to Jesus Christ? There must be something in the life and death of Christ,—there must be something in his great gospel which tends to bring comfort and light and strength to a heart heavy-laden with iniquity and wickedness. . . . I studied Christ ethically, nay spiritually, — and I studied the Bible also in the same spirit, and I must acknowledge candidly and sincerely that I owe a great deal to Christ and to the grapel of Christ. . . .

"My first inquiry was, What is the creed taught in the Bible?
... Must I go through all the dogmas and doctrines which constitute Christianity in the eye of the various sects, or is there something simple which I can at once grasp and turn to account?

"I found Christ spake one language, and Christianity another. I went to him prepared to hear what he had to say, and was immensely gratified when he told me: "Love the Lord thy God with all thy heart, with all thy mind, with all thy soul, and with all thy strength, and love thy neighbor as thyself;" and then he added, "This is the whole law and the prophets," in other words, the whole philosophy, theology, and ethics of the law and the prophets are concentrated in these two great doctrines of love to God and love to man; and then elsewhere he said, "This do and

ye shall inherit overlasting life." . . . If we love God and love man we become Christ-like, and so attain everlasting life.

"Christ never demanded from me worship or adoration that is due to God, the Creator of the Universe. . . . He places himself before me as the spirit I must imbibe in order to approach the Divine Father, as the great Teacher and guide who will lead me to God.

"There are some persons who believe that if we pass through the ceremony of baptism and sacrament, we shall be accepted by God, but if you accept baptism as an outward rite, you cannot thereby render your life acceptable to God, for Clrist wants something internal, a complete conversion of the heart, a giving up the yoke of mammon and accepting the yoke of religion, and trath, and God. He wants us to haptize our hearts not with cold water, but with the fire of religious and spiritual enthusinem; he calls upon us not to go through any outward rite, but to make baptism a coremony of the heart, a spiritual enkindling of all our energies, of all our loftiest and most heavenly aspirations and activities. That is true haptism. So with regard to the doctrine of the sacrament. There are many who eat the bread and drink the wine at the sacramental table, and go. through the ceremony in the most pions and faryent spirit; but, after all, what does the sacrament mean? If men simply adopt it as a tribute of respect and honor to Christ, shall be be satisfied? Shall they themselves be satisfied? Can we look upon them as Christians simply because they have gone through this rite regularly for twenty or fifty years of their lives? I think not. Christ demands of us absolute sanctification and purification of the heart. In this matter, also, I see Christ on one side, and Christian sects on the other.

"What is that bread which Christ asked his disciples to ext? what that wine which he asked them to taste? Any man who has simple intelligence in him, would at once come to the conclusion that all this was metaphorical, and highly and eminently spiritmal. Now, are you prepared to accept Christ simply as an outward Christ, an outward teacher, an external atonement and propitiation, or will you prove true to Christ by accepting his solemn injunctions in their spiritual importance and weight? He distinctly says, every follower of his must cat his fiesh and sirink his blood. If we eat, bread is converted into strength and health, and becomes the means of prolonging our life; so, spirit-18

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nally, if we take truth into our heart, if we put Christ into the soul, we assimilate the spirit of Christ to our spiritual being, and then we find Christ incorporated into our existence and converted into spiritual strength, and health, and joy, and blessedness. Christ wants semething that will amount to self-sacrifice, a casting away of the old man, and a new growth in the heart. I thus draw a line of demarcation between the visible and outward Christ, and the invisible and inward Christ, between bodily Christ and spiritual Christ, between the Christ of images and pictures, and the Christ that grows in the heart, between dead Christ and fiving Christ, between Christ that lived and that was, and Christ that does live and that is.

"To be a Christian then is to be Christ-like. Christianity means becoming like Christ, not acceptance of Christ as a proposition or as an outward representation, but spiritual conformity with the life and character of Christ. And what is Christ? By Christ I understand one who said, 'Thy will be done;' and when I talk of Christ, I talk of that spirit of loyalty to God, that spirit of absolute determinedness and preparedness to say at all times and in all tiremastances, 'Thy will be done, not

mine.

"This prayer about forgiving an enemy and loving an enemy, this transcendental doctrine of love of man, is really sweet to me, and when I think of that blessed Man of God, crucified on the cross, and uttering those blessed words, 'Father, forgive them, they know not what they do;' oh! I feel that I must love that being, I feel that there is something within me which is touched by these sweet and heavenly utterances, I feel that I must love Christ, let Christians say what they like against me; that Christ

I must love, for he preached love for an enemy.

"When every individual man becomes Christian in spirit—repudiate the name, if you like — when every individual man becomes as prayerful as Christ was, as loving and forgiving towards enemies as Christ was, as self-sacrificing as Christ was, then these little units, these little individualities, will ocaleses and combine together by the natural affinity of their hearts; and these new creatures, reformed, regenerated, in the child-like and Christ-like spirit of devotion and faith, will feel drawn towards each other, and they shall constitute a real Christian church, a real Christian nation. Allow me, friends, to say, England is not yet a Christian nation.

EXTRACTS FROM A CATEGUISM ISSUED BY A MEMBER OF THE ADI BRAHMO-SAMAJ.

Q. Who is the daity of the Brahmos?

- A. The One True God, one only without a second, whom all Hindu Süstras proclaim.
 - Q. What is the divine worship of the Brahmos?
 - A. Loving God, and doing the works He leveth.
 - Q. What is the temple of the Brahmos?

A. The pure heart.

- Q. What are the curemonial observances of the Brahmos?
- A. Good works.
- Q. What is the sperifice of the Brahmos?
- A. Renusciation of selfishmess.
- Q. What are the austerities of the Brahmos?
- A. Not committing sin. The Mahabharata says, He who does not commit sin in mind, speech, action, or understanding, performs austerities; not he who drieth up his body.
 - Q. What is the place of pilgrimage of the Brahmos?

A. The company of the good.

- Q. What is the Veda of the Brahmor?
- A. Divine knowledge. It is superior to all Vedas, The Veda itself says: The inferior knowledge is the Rig Veda, the Xajur Veda, the Sama Veda, the Atharva Veda, etc.; the superior knowledge is that which treats of God.
 - Q. What is the most sacred formula of the Brahmos?
 - A. He good and do good.
 - Q. Who is the true Brahman?
- A. He who knows Brahma. The Brihadārasyaka-Upanishad says: He who departs from this world knowing God, is a Brahman. (See "Brahmie Questions of the Day," 1869.)

THE END AND THE MEANS

09

CHRISTIAN MISSIONS.

A SERMON I PREACHED BY ARTHUR PENRHYN STAN-LEY, D.D., DEAN OF WESTMINSTER, ON THE DAY OF INTERCESSION FOR MISSIONS, WEDNESDAY, DECEMBER 3, 1873.

Then Agrippe said anto Paul, Almost thou persondest we to be a Christian. And Paul and, I would to God, that not only them, but all that hear me this day, were both almost, and altogether such as I am, except these bonds.

¹Ο δέ 'Αγρέπται πρός του Παίλου ζόη: 'Εν όλίγο με πείθεις Χριστιανόν γενέσται. 'Ο δέ Παίλου είπεν Εθζαίμην δε τῷ Θεφ, καὶ ἐν ἀλίγο καὶ ἐν παλλῷ οὐ μόνου σε, ἀλλὰ καὶ πάνται τοὺς ἀκούουτάς μου πέμερου γενέσται παιούτους, ὁποῖος κάγω είμι παρεκτός τῶν δεσμῶν τυύτων. Αςτα κανί. 28, 29.

When I preached on a like occasion last year, I spoke at some length of the prospects of Christian missions,² and I ventured to give seven grounds which the peculiar circumstances of our time afforded for

² Prospects of Christian Musicon, a sermon preached in Westminster Abbry on Derres or 20, 1872. Strahan & Co., London.

⁴ This surmer, which was preached by the Dean of Westminster in the foreneen of Westminster, Documber 3d, 187d, and in which his reasons are stated for inviting a layman to speak on the subject of missions in the evening of the same day, and within the same sacred precincts, is here reprinted with his kind permission.

greater confidence in the future. First, the better knowledge of the Divine nature acquired by the extinction of the once universal belief that all heathens were everlastingly lost; secondly, the increased acquaintance with the heathen religions themselves; thirdly, the instruction which Christian missionaries have gained or may gain from their actual experience in foreign parts; fourthly, the recognition of the fact that the main hindrance to the success of Christian missions arises from the vices and sins of Christendom; fifthly, an acknowledgment of the indirect influences of Christianity through legislation and civilization; sixthly, the newly awakened perception of the duty of making exact, anyarnished, impartial statements on this subject; seventhly, the testimony borne by missionary experience to the common elements and essential principles of the Christian religion.

On these—the peculiar grounds for hope and for exertion in this our generation—I content myself with referring to the observations which I then made, and which I will not now repeat.

I propose on this occasion to make a few remarks on the End and on the Means of Christian Missions; remarks which must of necessity be general in their import, but which for that reason are the more suitable to be offered by one who cannot speak from personal and special experience.

The text is taken from a striking incident in the life of the greatest of apostolic missionaries. It was in the presence of Festus and Agrippa that Paul had poured forth those few burning utterances which to Festus seemed like madness, but which Paul himself declared to be words of truth and soberness. Then it 278

was that the Jewish prince, Agrippa - far better instructed and seeing deeper into Paul's mind than the heathen Festus, yet still unconvinced - broke in upon the conversation with the words which in the English translation have well nigh passed into a proverb, "Almost thou persuadest me to be a Christian." The sense which they thus give would be in itself perfectly suitable to the halting, fickle character of the Herodian family, and would accurately describe the numerous half-converts throughout the world - "Almost," but not quite, "thou persuadest me to join the good cause." But the sause which, by the nearly universal consent of modern scholars, they really bear in the original is something still more instructive. The only meaning of which the Greek words are capable is an exclamation, half in jest and half in earnest, " It is but a very brief and simple argument that you offer to work so great a change;" or, if we may venture to bring out the sense more forcibly, " So few words, and such a vast conclusion ! " " So slight a foundation, and so gigantic a superstructure!" "So scanty an outfit, and so perilous an enterprise!" The speech breathes something of the spirit of Naaman, when he was told to wash in the Jordan - " Are not Abama and Pharpar better than all the waters of Israel?" It is like the complaint of the popular prophets in the time of Hezekiah, whose taste demanded stronger flavor than the noble simplicity of Isaiah, "Thou givest us only line upon line, precept upon precept." It breathes the spirit of the Ephesian Christians who, when they heard St. John's repeated maxim of "Little children, love one another," said, "Is this all that he has to tell us?" It expresses the spirit of many an one since, who has stumbled at the threshold

of the genuine Gospel—"So vague, so simple, so universal. Is this worth the sacrifice that you demand? Give us a demonstrative argument, a vast ceremonial, a complex system, a uniform government.

Nothing else will satisfy us," As Agrippa's objection, so is Paul's answer. It would have indeed borne a good sense had he meant what in our English version he is made to say, "I would that thou wert converted both almost and altogether.' Halfness or wholeness - I admire them both. Half a soul is better than none at all. To have come half way is better than never to have started at all; but half is only good, because it leads towards the whole," Nevertheless, following the real meaning of Agrippa's remark, St. Paul's retort, in fact, bears a yet deeper significance - "I would to God, that whether by little or by much, whether by brief arguments or by long arguments, somehow and somewhere, the change were wrought. The means to me are comparatively nothing, so long as the end is accomplished." It is the same spirit as that which dietated the noble expression in the Epistle to the Philippians: "Some preach Christ of envy and strife, some also of good will. The one preach Christ of contention, the other of love. What then? notwithstanding, every way, whether in pretence or in truth, Christ is preached." I

And then he proceeds to vindicate the end which makes him indifferent as to the means. Agrippa, in his brief taunt, had said, "Such are the arguments by which you would fain make me a *Christian*." It is one of the few, one of the only three occasions on which that glorious name is used in the New Testament. It is here charged not with the venerable meaning which we now attach to it, but with the novel and degrading associations which it bore in the mouth of every Jew and every Roman at that time - of Tacitus or Josephus, no less than of Festus or Agrippa. "Is it," so the king meant to say, "is it that you think to make me a Christian, a member of that despised, heretical, innovating sect, of which the very name is a sufficient condemnation?"

It is only by bearing this in mind that we see the force of St. Paul's answer. He does not insist on the word; he does not fight even for this sacred title; he does not take it up as a pugnacious champion might take up the glove which his adversary had thrown down; he does not say, "I would that thou wast a Christian." In his answer he bears his testimony to one of the gravest, the most fruitful, of all theological truths - that it is not the name but the thing, not the form but the reality, on which stress must be laid; and he gives the most lucid, heartstirring illustration of what the reality is. "I would that not only thou, but all those who hear me were (I ask for no ambiguous catchword or byword, but) what you see before you; I would that you all were such as I am - such as I am, upheld by the hopes, filled with the affections, that sustain my charmed existence;" and then, with that exquisite courtesy which characterizes so many traits of the Apostle's history, glancing at the chains which bound him to the Roman guard - " except these bonds.' This, whether you call it Christian or not, is what I desire to see you and all the world." "You see it before you in the life, the character, the spirit, of one who knows what Christianity is, and who wishes that all

his fellow-creatures should partake of the happiness that he has gained, repose on the same principles that give him strength." This, then, is the statement of the greatest of missionaries, both as to the end which he sought to attain, and the means by which he and we should seek to attain it.

I. Let us first take the End: "Such as I am, except these bonds." That is the state to which St. Paul desired to bring all those who heard him. That, according to him, was the description of a Christian. No doubt if he had been pressed yet further, he would have said that he meant, " Such as Jesus Christ, my Lord." But he was satisfied with taking such a living, human, imperfect exemplification as he whom Festus and Agrippa saw in their presence, "Such as Paul was." Here is no ambiguous definition, no obsolete form. What manner of man he was we know even better than Festus or Agrippa knew. Look at him with all his characteristic peculiarities; a man passionately devoted to his own faithful friends. and clinging to the reminiscences of his race and country, yet with a heart open to embrace all mankind; a man combining the strongest convictions with an unbounded toleration of differences, and an unbounded confidence in truth; a man penetrated with the freedom of the Spirit, but with a profound appreciation of the value of great existing institutions, whether civil or religious -a thorough Roman citizen and a thorough Eastern gentleman; embarked on a career of daring fortitude and endurance, undertaken in the strength of the persuasion that in Jesus Christ of Nazareth he had seen the highest perfection of Divine and human goodness - a Master worth living for and worth dying for, whose Spirit was to be the

regenerating power of the whole world. This character, this condition it was to which St. Paul desired that his hearers should be brought. One only reservation he makes; "except these bonds," except those limitations, those circumscriptions, those vexations, those irritations, which belonged to the suffering, toil-worn circumstances in which he was at that moment placed.

Such is the aim which, following the example of their most illustrious predecessor, all missionaries ought to have before their eyes. To create, to preach, to exhibit those elements of character, those apostolical graces, those Divine intuitions, which even the hard Roman magistrate and the superficial Jewish prince recognized in Paul of Tarsus. Where these are, there is Christianity. In proportion as any of these are attained, in that proportion has a human being become a Christian. Wherever and in proportion as these are not, there the missionary's labor has failed—there the seed has been sown to no purpose—there the name of Christian may be, but the reality is not.

This preëminence of the object of Christian missions — namely, the formation of heroic, apostolic, and therefore Christian characters — has a wide practical importance. In these days — when there is so much temptation to dwell on the scaffolding, the apparatus, the organization of religion, as though it were religion itself — it is doubly necessary to bear in mind what true Religion is, wherein lies the essential superiority of Christianity to all the other forms of religion on the surface of the earth. It is not merely the baptism of thousands of infants, such as filled a large part of the aspirations even of so great a misaionary as Francis Xavier nor the adoption of the

mame of Christ, as was done on so vast a scale by the ferneious rebels of China; nor the repetition, with ever so much accuracy, of the Christian creed, as was done by the pretended converts from Mahommedanism or Judaism, under the terrible compulsion of the Catholic sovereigns of Spain. Nor is it the assurance ever so frequently repeated, that we are saved; nor is it the absolution, ever so selemnly pronounced by a priest; nor is it the shedding of floods of tears; nor is it the adoption of voluntary self-degradation or solitary seclusion. All these may be found in other religions in even greater force than in Christianity. That which alone, if anything, stamps Christianity as the supreme religion, is that its essence, its object, is in none of these things, valuable as some of them may be as signs and symptoms of the change which every mission is intended to effect. change itself, the end itself, Christianity itself, is at once greater and simpler. It is to be such as Paul was ; it is to produce characters, which in truthfulness, in independence, in mercy, in purity, in charity, may recall something of the great Apostle, even as he recalled something of the mind which was in Christ Jesus. It was this clear vision of what he desired to see as the fruits of his teaching that made St. Paul so ready to admire whatsoever things were lovely and of good report wherever he found them. In Gentile or in Jew, in heathen or in Christian, he recognized at once the spirits kindred to his own, and welcomed them accordingly. He felt that he could raise them yet higher; but he was eager to claim them as his brethren even from the first. I Even in

¹ Acts xiv. 16, 17; xvi. 23, 25; siz. 37; xxi. 25; xxii. 25; xxv. 11. Rom. ii. 6-15; xiii. 1-7; xiv. 0; 1 Cor. iz. 25-25; xx. 33. Phil. iv. 8.

the legends which surround his history there has been preserved something of this genuine apostolic sympathy. It was a fine touch in the ancient Latin hymn which described how, when he landed at Putcoli, he turned aside to the hill of Pausilipo to shed a tear over the tomb of Virgil, and thought how much be might have made of that noble soul if he had found him still on earth:—

"Ad Maronis mansoleum
Ductus, fudit super cum
Pise rorem lacryms —
'Quantum,' dixit, 'te ferissem
Si to virum invenissem,
Poetarum muxima."

It was this which made him cling with such affectionate interest to his converts, to his friends, to his sons, as he calls them, in Christ Jesus. All that he sought, all that he looked for in them, was that they should show in their characters the seal of the spirit that animated himself. Whether they derived this character from himself or from Apollos or Cephas he cared not to ask. He was their pupil as much as their master. He disclaimed all dominion over their independent faith; he claimed only to be a helper in their joy.

This reproduction of Paul—this reproduction of all that is best in ourselves or better than ourselves—in the minds and hearts of mankind, is the true work of the Christian missionary; and, in order to do this, he must be himself that which he wishes to impress upon them in humility, goodness, courtesy, and holiness, except only the straitening bonds which cramp or confine each separate character, nation, and church. No dispurger of Christian missions can dispute this

- no champion of Christian missions need go beyond this. When, in the last century, the Danish missionary, Schwarz, was pursuing his labors at Tanjore, and the Rajah Hyder Ali desired to treat with the English government, he said: "Do not send to me any of your agents, for I trust neither their words nor their treaties. But send to me the missionary of whose character I hear so much from every one; him will I receive and trust." That was the electrifying, vivifying effect of the apparition of such an one as Paul - "a man who had indeed done nothing worthy of bonds or of death" - a man in whose entire disinterestedness and in whose transparent honor the image and superscription of his Master was written so that no one could mistake it. "In every nation, he that feareth God and worketh righteousness" is the noblest work of God our Creator - the most precious result of human endeavor. If any such - by missionary efforts, either of convert or teacher, either direct or indirect - have been produced, then the prayers uttered, the labors inspired, the hopes expressed in these and like services have not been altogether in vain. One of the most striking facts to which our attention has been called as demanding our thankfulness on this day is the solemn testimony borns by the Government of India to the fruits of "the blameless lives and self-denying labors of its six hundred Protestant missionaries." And what are those fruits? Not merely the adoption of this or that outward form of Christianity by this or that section of the Indian community. It is something which is in appearance less, but in reality far greater than this. It is something less like the question of Agrippa, but more like the answer of Paul. It is that they have "infused

new vigor into the stereotyped life of the vast populations placed under English rule;" it is that they are "preparing those populations to be in every way better men and better citizens of the great Empire under which they dwell." That is a verdict on which we can rest with the assurance that it is not likely to be reversed. Individual conversions may relapsemay be accounted for by special motives; but longsustained, wide-reaching changes of the whole tenor and bent of a man or of a nation are beyond suspicion. When we see the immovable, and, as the official document says, "the stereotyped" forms of Indian life re-animated with a vigor unknown to the Oriental races in earlier days, this is a regeneration as surprising as that which, to a famous missionary of the past generation, seemed as impossible as the restoration of a mummy to life - namely, the conversion of a single Beahmin.

This, then, is the End of Christian missions, whether to heathens or to Christians, namely, to make better men and better citizens—to raise the whole of society by inspiring it with a higher view of duty, with a stronger sense of truth; with a more powerful conviction that only by goodness and truth can God be approached or Christ be served—that God is goodness and truth, and that Christ is the Image of God, because He is goodness and truth. If this be the legitimate result of Christianity, no further arguments are needed to prove that it contains a light which is worth imparting, and which, wherever it is imparted, vindicates its heavenly origin and its heavenly tendency.

H. This is the End; and now what are the Means? They are what we might expect in the view of so

great an end. Anything (so the Apostle tells us), be it small or great, short or long, scanty or ample, the manners of a Jew for Jews, the manners of a Gentile for Gentiles, "all things for all men,"1- are worth considering if "by any of these means he might save," that is, elevate, sanctify, purify any of those to whom he spoke. When we reflect upon the many various efforts to do good in this manifold worldthe multitude of sermons, societies, agencies, excitements, which to some seem as futile and fruitless as to others they seem precious and important - it is a true consolation to bear in mind the Apostle's wise and generous maxim, "Whether by little or by much, whether in pretence or in truth, whether of strife or of good will, Christ is preached, and I therein do rejoice, yea, and will rejoice." It may be by a short, sudden, electric shock, or it may be by a long course of civilizing, humanizing tendencies. It may be by a single text, such as that which awoke the conscience of Augustine; or a single interview like Justin's with the unknown philosopher; or it may be by a long systematic treatise - Butler's "Analogy," or Lardner's "Credibilia," or the "Institutes" of Calvin, or the "Summa Theologia:" of Aquinas. It may be by the sudden flush of victory in battle, such as convinced Clovis on the field of Tolbine; or the argument of a peaceful conference, such as convinced our own Ethelbert. It may be by teachers steeped in what was by half the Christian world regarded as deadly heresy, such as the Arian Bishop Ulfilas, by whom were converted to the faith those mighty Gothic tribes which formed the first elements of European Christendom, and whose deeds Augustine regarded, notwithstanding

I 1 Cor. ix. 20-22.

their errors, as the glory of the Christian name.1 It mny be by teachers immersed in superstitions as barbarons, as completely repudiated by the civilized world, as were those of the famous Roman Pontiff who sent the first missionaries to these shores. Sometimes the change has been effected by the sight of a single picture, as when Vladimir of Russia was shown the representation of the Last Judgment; sometimes by a dream or a sign, known only to those who were affected by it - such as the vision of the Cross which arrested Constantine on his way to Rome, or changed Colonel Gardiner's dissolute youth to a manhood of strict and sober piety. Sometimes it has been by the earnest preaching of missionaries, confessedly ill-educated and ill-prepared for the work which they had to accomplish; sometimes by the slow infiltration of Christian literature and Christian civilization; the grandeur, in old days, of Rome and Constantinople; in our days, the superiority of European genius, the spread of English commerce, the establishment of just laws, pure homes, merciful institutions.

We do not say that all these means are equally good or equally efficacious. St. Paul, in his argument with Agrippa, did not mean to say that "almost and altogether," that "much and little," were the same; he did not mean that it was equally good that Christ should be preached in strife or in good-will; he did not mean that a good end justified bad means, or that we may do evil that good may come; he did not

[.] In the well-known passage where, speaking of the moderation and fammanity of those heretical Arians in the captures of Rome, he concludes "Ho Christi momini, how Christiano tempori tribundum quinquis non vides, excuss, quisquis non landat, lagratus; quisquis landant relactator, ingratus set." De Civilere Del, L. c. 7. Compare Ibid. c. 1, and Sermon cv., De. Ec. S. Luc.

mean to justify the falsehoods which are profauely called pious frands, nor the persecutions which have been set on foot by those who thought to do God service, or the attempt to stimulate artificial excitement by undermining the moral strength and manly independence of the human spirit. God forbid! But what he meant, and what we mean with him, is this: In true Christian missions, in the conversion of human souls from dead works, from sin, from folly, from barbarism, from hardness, from selfishness, to goodness and purity, justice and truth, the field is so vast, the diversity of character in men and nations is so infinite, the enterprise so arduous, the aspects of Divine trath so various, that it is on the one hand a duty for each one to follow out that particular means of conversion which seems to him most efficacions, and on the other hand to acquiesce in the converging use of many means which cannot, by the mature of the case, appear equally efficacious to every one. Such a toleration, such an adoption of the different modes of carrying on what John Bunyan called "the Holy War," "the Siege of Man's Soul," must indeed be always controlled by the determination to keep the high, paramount, universal end always in view; by the vigilant endeavor to repress the exaggeration, to denounce the follies and the falsehoods which infect even the best attempts of narrow and fallible, though good and faithful, servants of their Lord. But, if once we have this principle fixed in our minds, it surely becomes a solace to remember that the soul of man is won by a thousand different approaches - that thus the instruments which often seem most unworthy may yet serve to produce a result far above themselves - that when " we have toiled all

night and taken nothing" by keeping close to the shore, or by throwing out our nets always on one side, yet if we have courage "to launch out into the deep, and east out our nets on the other side of the ship," we shall "enclose a great multitude of fishes, so that the net shall break."

He is a traitor to the cause who exalts the means above the end, or who seeks an end altogether different from that to which his allegiance binds him; but he is not a traitor, but a faithful soldier, who makes the best use of all the means that are placed in his hands. Long after the imperfect instruments have perished the results will endure, and in forms wholly unlike the insufficiency or the meagreness of the first propelling cause. The preaching of Henry Martyn may have been tinged by a zeal often not according to knowledge; but the savor of his holy and selfdenying life has passed like a sweet-smelling incense through the whole framework of Indian society. "Even," so he said himself, "if I should never see a. native converted, God may design by my patience and continuance in the work to encourage future missionaries."

The more profoundly we are impressed with the degradation of the heathen nations, with the corruption of the Christian churches, the more thankful should we be for any attempts, however slight and however various, to quicken the sluggish mass, and enlighten the blackness of the night, provided only that the mass is permanently quickened, and the darkness is in any measure dispelled. "I have lived too long," said Lord Macaulay on his return from Iudia to England, "I have lived too long in a country where people worship cows, to think much of the

differences which part Christians from Christians," And, in fact, as the official report to which I have referred testifies in strong terms, the presence of the great evils which Indian missionaries have to confront, has often produced in them a noble and truly Christian indifference to the trivial divergences between themselves. "Even a one-eyed man," says the proverb, "is a king amongst the blind." Even the shepherd's sling may perchance smite down the Goliath of Gath. The rough sledge-hammer of a rustic preacher may strike home, where the most polished scholar would plead in vain. The calm judgment of the wise and good, or the silent example, or the understanding sympathy, or the wide survey of the whole field of the religions of mankind, may awaken convictions which all the declamations of all the churches would fail to arouse,

The misery of the war on the coast of Africa, the terrible prospect of the Indian famine, may furnish the very opening which we most desire. They may be the very touchstones by which these suffering heathens will test the practical efficiency of a Christian government and a Christian nation, of Christian missionaries and Christian people, and, having so tested it, will judge.

When the first Napoleon suddenly found himself among the quicksands of the Red Sea he ordered his generals to ride out in so many opposite directions, and the first who arrived on firm ground to call on the rest to follow. This is what we may ask of all the various schemes and agencies—all the various inquiries after truth now at work in all the different branches and classes of Christendom—"Ride out amongst those quicksands! Ride out in the most

opposite directions, and let him that first finds solid ground call out to us! It may perchance be the very ground in the midst of this quaking morass where we shall be able to stand firm and move the world."

There is one special variety of means which I would venture to name in conclusion. Ever since the close of the Apostolic age there have been two separate agencies in the Christian Church by which the work of conversion has been carried on. The chief, the recognized, the ordinary agency has been that of the clergy. Every presbyter, every bishop in the Church of the first ages, and again in the beginning of Christian Europe, was, in the strict sense of the word, a missionary; and although their functions have in these latter days been for the most part best fulfilled by following their stationary, fixed, pastoral charges, yet it is still from their ranks in all the different churches that the noble army of missionaries and martyrs in foreign lands has been, and is and must be recruited. Most unwise and unworthy would be any word which should underrate the importance of this mighty element in the work of renewing the face of the earth. But there has always been recognized, more or less distinctly, the agency of Christian laymen in this same work of evangelization. Not only in that more general sense in which I have already indicated the effect of the laws, and literature, and influence of Christian Europe - not only in that unquestionable sense in which the best of all missionaries is a high-minded governor, or an upright magiatrate, or a devout and pure-minded soldier, who is always " trusting in God and doing his duty ; " not only in these senses do we look for the cooperation of laymen, but also in the more direct forms of instruc-

tion, of intelligent and far-seeing interest in labors, which, though carried on mainly by the clergy, must, if they are to be good for anything, concern all mankind alike. In the early centuries of Christianity the aid of laymen was freely invoked and freely given in this great cause. Such was Origen, the most learned and the most gifted of the Fathers, who preached as a layman in the presence of presbyters and bishops. Such was one of the first evangelizers of India, Pantunus; such was the hermit Telemachus, whose carnest protest, aided by his heroic death, extinguished at Rome the horrors of the gladiatorial games; such was Antony, the mighty preacher in the wilds of the Thebaid and the streets of Alexandria; such, in later days, was Francis of Assisi, when first he began his career as the most famous preacher of the Middle Ages; such, just before the Reformation, was our own Sir Thomas More. 1 In these instances, as in many others, the influence, the learning, the zeal of laymen, was directly imported into the work of Christianizing the nations of Europe. It is for this reason that we in our age also, so far as the law and order of our churches permit, have frequently received the assistance of laymen; who, by the weight of their character or their knowledge, can render a fresh testimony, or throw a fresh light on subjects where we, the clergy, should perhaps be heard less willingly. As their voices have been raised on this sacred subject of missions in many a humble parish church; as also on other sacred topics, such as Christian art and

^{1 &}quot;Sir Thomas More, after he was called to the Bar in Lincoln's Inv., did, for a considerable time, read a public lecture out of S. Augustine, De Circhate Dei, in the Church of S. Lawrence in the Old Jewry to which the hermoder sort of the City of London did resort." Wood's Athens Occurrence, fol. ed. 1721, pp. 182, 183.

history, their words have often been heard within the consecrated walls of this and other great abbeys and cathedrals;—so, in the hope that a more systematic form may thus be given to our knowledge, and a more concentrated direction to our zeal, we shall have the privilege of listening this ovening in the nave of this church to a scholar renowned throughout the world, whose knowledge of all heathen religious, ancient and modern, in their relation to the experience of Christian missions, probably exceeds that of any other

single person in Europe.

I conclude by once more applying the Apostle's words to the Means and the End of Christian missions. We would to God that whether by little or by much, whether by sudden stroke or by elaborate reasoning, whether in a brief moment or by long process of years, whether by the fervor of active clergy, or by the learning of impartial laymen, whether by illiterate simplicity or by wide philosophy - not only those who hear me, but all on whom the services of this day, far and near, have any influence, may become, at least in some degree, such as was Paul the Apostle, such as have been the wisest and best of Christian missionaries, except only those bonds which belong to time and place, not to the Eternal Spirit and the Everlasting Gospel of Jesus Christ. We cannot wish a better wish, or pray a better prayer to God on this day than that amongst the missionaries who teach, amongst the heathens who hear, there should be raised up men who should exhibit that type of Christian truth and of Christian life which was seen by Festus and Agrippa in Paul of Tarsus. May the Giver of all good gifts give to us some portion of his cheerful and manly faith, of

his fearless energy, of his horror of narrowness and superstition, of his love for God and for mankind, of his absolute faith in the triumph of his Redeemer's cause. May God our Father waken in as the sense that we are all his children; may the whole earth become more and more one fold under one Good Shepherd, Jesus Christ his Son; may the Holy Spirit of Heaven

"Our souls Impire, And lighten with colostial fire."

ON THE VITALITY OF BRAHM-ANISM.

THE delivery of a lecture on Missions in Westminster Abbey by a layman, and that layman a
German, caused great excitement at the time. While
some persons of great experience and authority in
Church and State expressed their full approval of the
bold step which the Dean of Westminister had
taken, and while some of the most devoted missionaries conveyed to me their hearty thanks for what I
had said in my lecture, others could not find terms
sufficiently violent to vent their displeasure against
the Dean, and to proclaim their horror at the heretical opinions embodied in my address. I was publicly
threatened with legal proceedings, and an eminent
lawyer informed me in the "Times" of the exact
length of imprisonment I should have to undergo.

I did not reply. I had lived long enough in England to know that no good cause can ever be served by a breach of the law, and neither the Dean nor I myself would have acted as we did unless it had been ascertained beforehand from the highest authorities that, with the sanction of the Dean, there was nothing illegal in a layman delivering such a lecture within the precincts of his Abbey. As to the opinions which I expressed on that occasion, I had expressed them before in my published "Lectures on the Science of Religion." Whether they are orthodox or heretical, others are more competent to deter-

mine than I am. I simply hold them to be true, and at my time of life, mere contradictions, abuse, or even threats are not likely to keep me from expressing opinions which, whether rightly or wrongly, seem to me founded in truth.

But while I refrained from replying to mere outbursts of anger, I gladly availed myself of the opportunity offered by an article published in the "Formightly Roview" (July, 1874), by Mr. Lyall, a highly distinguished Indian civilian, in order to explain more fully some of the views expressed in my lecture which seemed liable to misapprehension. Unfortunately the writer of the article "On Mission-- ary Religions" had not the whole of my lecture before him when writing his criticisms, but had to form his opinion of it from a condensed report which appeared in the "Times" of December 5th, 1873. The limits of a lecture are in themselves very narrow, and when so large a subject as that of which I had to treat in Westminster Abbey had to be condensed within sixty minutes, not only those who wish to misunderstand, but those also who try to judge fairly, may discover in what has been said, or what has not been said, a very different meaning from that which the lecturer wished to convey. And if a closely-packed lecture is compressed once more into one column of the "Times," it is hardly possible to avoid what has happened in this case. Mr. Lyall has blamed me for not quoting facts or statements which, as he will have seen by this time, I had quoted in my lecture. I am reminded by him, for instance, of the remarks made by Sir George Campbell in his report upon the government of Bengal in 1871-72, when he wrote, "It is a great mistake to

suppose that the Hindu religion is not proselytizing; the system of castes gives room for the introduction of any number of outsiders; so long as people do not interfere with existing castes, they may form a new caste and call themselves Hindus; and the Brahmans are always ready to receive all who will submit to them and pay them. The process of manufacturing Rajputs from ambitious aborigines goes on before our eyes." "This," Mr. Lyalt observes, "is one recently recorded observation out of many that might be quoted."

It is this very passage which I had quoted in my third note, only that in quoting it from the "Report on the Progress and Condition of India," laid before Parliament in 1873, I had added the caution of the reporter, that "this assertion must be taken with reserve."

With such small exceptions, however, I have really nothing to complain of in the line of argument adopted by Mr. Lyall. I believe that, after having read my paper, he would have modified some portions of what he has written, but I feel equally certain that it is well that what he has written should have been written, and should be carefully pondered both by those who have the interests of the natives, and by those who have the interests of Christian missions at heart. The few remarks which I take the liberty of making are made by way of explanation only; on all truly essential points I believe there is not much difference of opinion between Mr. Lyall and myself.

As my lecture in Westminister Abbey was delivered shortly after the publication of my "Introduction to the Science of Religion," I ventured to take

certain points which I had fully treated there as generally known. One of them is the exact value to be ascribed to canonical books in a scientific treatment of religion. When Mr. Lyall observes in limine, that inferences as to the nature and tendency of various existing religious which are drawn from study and exegetic comparison of their scriptures, must be qualified by actual observation of these religious and their popular form and working effects, he expresses an opinion which I hold as strongly as he holds it himself. After ennmerating the books which are recognized as sacred or authoritative by large religious communities in India, books of such bulk and such difficulty that it seems almost impossible for any single scholar to master them in their entirety, I added (p. 111), "And even then our eyes would not have reached many of the sacred recesses in which the Hindu mind has taken refuge, either to meditate on the great problems of life, or to free itself from the temptations and fetters of worldly existence by penances and mortifications of the most exquisite cruelty. India has always been teeming with religions sects, and its religious life has been broken up into countless local centres which it required all the ingemity and perseverance of a priestly caste to hold together with a semblance of dogunatic uniformity."

We must take care, however, in all scientific studies, not to render a task impossible by attaching to it conditions which, humanly speaking, cannot be fulfilled. It is desirable, no doubt, to study some of the local varieties of faith and wership in every religion, but it is impossible to do this with anything like completeness. Were we to wait till we had examined every Christian sect before trusting ourselves

to form a general judgment of Christianity, not one of us could honestly say that he knew his own religion. It seems to me that in studying religious we must expect to meet with the same difficulties which we have to encounter in the comparative study of languages. It may, no doubt, be argued with great force that no one knows English who is ignorant of the spoken dialects, of the jargon of sailors and miners, or of the slang of public-houses and prisons. It is perfectly true that what we call the literary and classical language is never the really living language of a people, and that a foreigner may know Shakespeare, Milton, and Byron, and yet fail to understand, if not the debates in Parliament, at all events the wrangling of sellors and buyers in the markets of the city. Nevertheless, when we learn English, or German, or French, or any of the dead languages, such as Latin and Greek, we must depend on grammurs, which grammars are founded on a few classical writers; and when we speak of these languages in general, when we subject them to a scientific treatment, analyze them, and attempt to classify them, we avail ourselves for all such purposes almost exelusively of classical works, of literary productions of recognized authority. It is the same, and it can hardly be otherwise, when we approach the study of religions, whether for practical or for scientific purposes. Suppose a Hindu wished to know what the Christian religion really was, should we tell him to go first to Rome, then to Paris, then to St. Petersburg, then to Athens, then to Oxford, then to Berlin, that he might hear the sermons of Roman Catholics, Greeks, and Protestants, or read their so-called religious papers, in order to form out of these scattered

impressions an idea of the real nature of the working effects of Christianity? Or should we not rather tell him to take the Bible, and the hymns of Christian Churches, and from them to form his ideal of true Christianity? A religion is much more likely to become "a mysterious thing," when it is sought for in the heart of each individual believer, where alone, no doubt, it truly lives, or in the endless shibboleths of parties, or in the often contradictory tenets of sects, than when it is studied in those sacred books which are recognized as authoritative by all believers, however much they may vary in their interpretations of certain passages, and still more in the practical application of the doctrines contained in their sacred codes to the ordering of their daily life. Let the dialects of languages or religions be studied by all means, let even the peculiarities in the atterances of each town, village, or family, be carefully noted; but let it be recognized at the same time that, for practical purposes, the immense variety of individual expression has to be merged in one general type, and that this alone supplies the chance of a truly scientific treatment.

So much in justification of the principle which I have followed throughout in my treatment of the so-called Book-religions, holding that they must be judged, first of all, out of their own mouths, i. e., out of their sacred writings. Although each individual believer is responsible for his religion, no religion can be made responsible for each individual believer. Even if we adopt the theory of development in religion, and grant to every thinking man his right of private interpretation, there remains, and their must always remain, to the historian of religion, an ap-

peal to the statutes of the original code with which each religion stands and falls, and by which alone it

can justly be judged.

It may be, as Mr. Lyall says, an inveterate modern labit to assume all great historic names to represent something definite, symmetrical, and organized. It may be that Asiatic institutions, as he asserts, are incapable of being circumscribed by rules and formal definitions. But Mr. Lyall, if he directed his attention to European institutions, would meet with much the same difficulties there. Christianity, in the largest sense of the word, is as difficult to define as Brahmanism, the English constitution is as unsymmetrical as the system of caste. Yet, if we mean to speak and argue about them, we must attempt to define them, and with regard to any religion, whether Asiatic or European, no definition, it seems to me, can be fairer than that which we gain from its canonical books.

I now come to a more important point. I had divided the six great religions of the world into Missionary and non-Missionary, including Judaism, Brahmanism, and Zorcastrianism, under the latter; Buddhism, Christianity, and Mohammedanism, under the former category. If I had followed the good old rule of always giving a definition of technical terms, the objections raised by Mr. Lyall and others would probably never have been urged. I thought, however, that from the whole tenor of my lecture it would have been clear that by missionary religions I meant those in which the spreading of the truth and the conversion of unbelievers are raised to the rank of a saccred duty by the founder or his immediate successors. In explaining the meaning of the word procelyte, or

specificon, I had shown that literally it means those who come to us, not those to whom we go, so that even a religion so exclusive as Judaism might admit proselytes, might possibly, if we insisted only on the etymological meaning of the word, be called proselytizing, without having any right to the name of a missionary religion. But I imagined that I had said enough to make such a misunderstanding impossible. We may say that the English nobility grows, but we should never say that it proselytizes, and it would be a mere playing with words if, because Brahmanism admits new-comers, we were to claim for it the title of a proselytizing religion. The Brahmanic Scriptures have not a word of welcome for converts, quite the contrary; and as long as these Scriptures are recognized as the highest authority by the Hindua themselves, we have no right to ascribe to Brahmanism what is in direct contradiction with their teaching. The burning of widows was not enjoined in the Vedas, and hence, in order to gain a sanction for it, a passage in the Veda was falsified. No such necessity was ever felt with regard to gaining converts for the Brahmanie faith, and this shows that, though admission to certain Brahmanic privileges may be easier at present than it was in the days of Visvâmitra, conversion by persuasion has never become an integral portion of the Brahmanic law,

However, as Mr. Lyall does not stand alone in his opinions, and as others have claimed for Judaism and Zoroastrianism the same missionary character which as claims in the name of Brahmanism, a few explana-

tions may not be out of place.

Till very lately, an orthodox Jew was rather proud of the fact that he and his people had never conde-

scended to spread their religion among Christians by such means as Christians use for the conversion of Jews. The Parsi community, too, seemed to share with the Quakers a prudent reluctance in admitting outsiders to the advantages conferred by membership of so respectable and influential a community, while the Brahmana certainly were the very last to compass heaven and earth for the conversion of Mickehas or outcasts. Suddenly, however, all this is changed. The Chief Rabbi in London, stung to the quick by the reproach of the absence of the missionary spirit in Judaism, has delivered a sermon to show that I had maligned his people, and that, though they never had missionaries, they had been the most proselytizing people in the world. Some strong arguments in support of the same view have been brought forward by the Rev. Charles Voysey, whose conception of Judalam, however, is founded rather on what the great prophets wished it should have been than on what history teaches us it was. As the facts and arguments advanced by the Jewish advocates did not modify my judgment of the historical character of Judaism, I did not think it necessary to reply, particularly as another eminent Rabbi, the editor of the "Jewish World," fully endorsed my views of Judaism, and expressed his surprise at the unorthodox theories advanced by so high an authority as Dr. Adler. I am informed, however, that the discussion thus originated will not remain without practical results, and that something like a Jewish Missionary Society is actually forming in London, to prove that, if missionary zeal is a test of life, the Jewish religion will not shrink from such a test. "We have done something," the Rev. Charles Voysey remarks, " to

stir them up; but let us not forget that our reminder was answered, not by a repulse or expression of surprise, but by an assurance that many earnest Jews had already been thinking of this very work, and planning among themselves how they could revive some kind of missionary enterprise. Before long, I feel sure they will give practical evidence that the missionary spirit is still alive and striving in their religion." And again: "The Jews will soon show whether their religion is alive or dead, will soon meet the rival religions of the world on more than equal terms, and will once more take the lead in these days of enlightened belief, and in search after conceptions worthy of a God, just as of old Judaism stood on a lofty height, far above all the religions of mankind."

What has happened in London seems to have happened in Bombay also. The Zoroastrians, too, did not like to be told that their religion was dying, and that their gradual decay was due to the absence of the missionary spirit among them. We read in the "Oriental" of April, 1874, "There is a discussion as to whether it is contrary to the creed of Zoroaster to seek converts to the faith. While conceding that Zoroaster was himself opposed to proselytizing heathens, most of the Parsis hold that the great decrease in the number of his followers renders it absolutely necessary to attempt to augment the sect."

Lastly, Mr. Lyall stands up for Brahmanism, and maintains that in India Brahmanism had spread out during the last hundred years, while Islam and Christianity have contracted. "More persons in India," he says, "become every year Brahmanists, than all the converts to all the other religions in India put together." "The number of converts," he maintains, "added to Brahmanism in the last few generations, especially in this country, must be immense; and if the word proselyte may be used in the sense of one that has come, not necessarily being one that has been invited or persuaded to come, then Brahmanism may by claim to be by far the most successful prose-

lytizing religion of modern times in India."

The words which I have ventured to put in italies, will show at once how little difference of opinion there is between Mr. Lyall and myself, as long as we use the same words in the same sense. If proselytizing could be used in the etymological sense, here assigned to it by Mr. Lyall, then, no doubt, Brahmanism would be a proselytizing or missionary religion, But this is mere playing with words. In English, proselytizing is never used in that sense. If I meant by missionary religions nothing more than religions which are capable of increase by admitting those that wish to be admitted, religious which say to the world at large, "Knock and it shall be opened unto you," but no more, then, no doubt, Brahmanism, or at least some phases of it, might be called by that name. But what, according to my explanation, constitutes a missionary religion is something totally different. It is the spirit of truth in the hearts of believers which cannot rest unless it manifests itself in thought, word, and deed, which is not satisfied till it has carried its message to every human soul, till what it believes to be the truth is accepted as the truth by all members of the human family.

That spirit imparts to certain religious a character of their own, a character which, if I am not mistaken, constitutes the vital principle of our own religion, and of the other two which, in that respect, stand

nearest to Christianity - Buddhism and Mohammedanism. This is not a more outward difference, depending on the willingness of others to join or not to join; it is an inward difference which stamped Christianity as a missionary religion, when as yet it counted no more than twelve apostles, and which lavs on every one that calls himself a Christian the duty of avowing his convictions, whatever they may be, and gaining others to embrace the truth. In that sense every true Christian is a missionary. Mr. Lvall is evidently aware of all this, if we may judge by the expressions which he uses when speaking of the increase of Brahmanism. He speaks of the clans and races which inhabit the hill-tracts, the out-lying uplands, and the uncleared jungle districts of India, as melting into Hinduism. He represents the ethnical frontier, described by Mr. Hunter in the "Annals of Rural Bengal," as an ever-breaking shore of primitive beliefs, which tumble constantly into the ocean of Brahmanism. And even when he dwells on the fact that non-Aryans are invited by the Brahmans to enter in, he adds that this is done for the sake of profit and repute, not from a wish to eradicate error, to save souls, or to spread the truth. Such instances occurred even in the ancient history of India; and I had myself, in my "History of Ancient Sanskrit Literature," pointed out the case of the Rathakaras or expenters who were admitted to the Vedic sacriflees, and who, probably from a mere similarity of name - their leader being called Bribn, - had the old Vedic Ribbus assigned to them as their peculiar deities. But these were exceptions, they were concessions aux negres, deviations from traditional rules, entirely owing to the pressure of circumstances; not

manifestations springing from religious impulses. If Mr. Lyall remarks himself, that a religion which thus, half involuntarily, enlarges its borders, is not, in the strict sense of the word, a missionary religion, he shows that he is fully aware of the profound difference between a religion that grows by mere agglomeration and a religion that grows by its own strongth, by its irrapressible missionary zeal. In answer to his conelading remark, that this ground was not taken in my lecture, I can only say that it was, nay, that it formed the very foundation on which the whole argument of my lecture was meant to rest.

There is more force in the objections which Mr. Lyall raises against my calling Brahmanism already dead. The word was too strong; at all events, it was liable to be misunderstood. What I meant to say was that the popular worship of Siva and Vishina belongs to the same intellectual stratum as the worship of Jupiter and Apollo, that it is an anachronism in the nineteenth century, and that, for our purposes, for prognosticating the issues of the religious struggles of the future, it may simply be set uside. For settling any of the questions that may be said to be pending between Christianity, Mohammedanism, and Buddhism, Brahmanism is dead. For converting any number of Christians, Mohammedans, and Buddhists back to idolworship, Brahmanism is dead. It may absorb Sonthals, and Gonds, and Bhils, and other half savage races, with their rough-hown jungle deities, it may even raise them to a higher stage of civilization, and imbue them with the first principles of a truer faith and a purer worship, but for carrying any of the strong positions of Buddhism, Mohammedanism, and Christianity, Brahmanism is powertess and dead. In India itself, where it cliugs to the soil with a thousand roots, it was beaten by Buddhism, and, if it afterwards recovered its position, that was due to physical force, not to persuasion and conversion. The struggle between Mohammedanism and Brahmanism in India was on both sides a political rather than a religious struggle: still when a change of religion arose from conviction, we see Brahmanism yielding to the purer light of Islam, not Islam to Brahmanism.

I did not undervalue the actual power of Brahmanism, particularly its power of resistance; nor did I prophesy its speedy extinction. I said on the contrary that "a religion may linger on for a long time, and be accepted by the large masses of the people, because it is there, and there is nothing better." "It is true," I added, "there are millions of children, women, and men in India who fall down before the stone image of Vishau, with his four arms, riding on a creature, half-bird, half-man, or sleeping on the serpent; who worship Siva, a monster with three eyes, riding naked on a bull, with a necklace of skulls for his ornament. There are human beings who still believe in a god of war, Kartikeya, with six faces, riding on a pencock, and holding bow and arrow in his hands; and who invoke a god of success, Gasesa, with four hands and an elephant's head, sitting on a rat. Nay, it is true that, in the broad daylight of the nineteenth century, the figure of the goldess Kaliis carried through the streets of her own city, Calcotta, her wild disheveled hair reaching to her feet, with a necklace of human heads, her tongue protruded from her mouth, her girdle stained with blood. All this is true; but ask any Hindu who can read

and write and think, whether these are the gods he believes in, and he will smile at your erodulity. How long this living death of national religion in India may last, no one can tell: for our purposes, however, for gaining an idea of the issue of the great religious struggle of the future, that religion is dead and gone."

I ask Mr. Lyall, is this true or is it not? He says himself, "that Brahmanism may possibly melt away of a heap and break up, I would not absolutely deny." Would Mr. Lyall say the same of Buddhism, Mohammedanism, or Christianity? He points himself to the description which Gibbon gives of the ancient Roman religion in the second century of the Christian eraand shows how closely applicable it is to the present state of Brahmanism in India. "The telerant superstition of the people, 'not confined by the claims of any speculative system,' the 'devout polytheist, whom fear, gratitude, and enriesity, a dream, or an omen, a singular disorder, or a distant journey, perpetually disposed to multiply the articles of his belief, and to enlarge the list of his protectors; the 'ingenious youth alike instructed in every school to reject and despise the religion of the multitude; the philosophic class who ' look with indulgence on the errors of the vulgar, diligently practice the ceremonies of their fathers, and devoutly frequent the temples of their gods; ' the 'magistrates who know and value the advantages of religion as it is connected with civil government; ' - all these scenes and feelings are represented in India at this moment, though by no means in all parts of India." If, then, in the second century a student of religious pathology had expressed his conviction that in spite of the number of its professors, in spite of its antiquity, in spite of its

Indigenous character, in spite of its political, civil, and social influences, in spite of its temples and priests, in spite of its schools and philosophers, the ancient religion of Jupiter had lost its vitality, was sick unto death, nay, for all real purposes was dead, would be have been far wrong? It may be replied, no doubt, that similar corruptions have crept into other religions also, that gaudy dolls are carried about in Christian cathedrals, that people are invited to see tears rolling down from the eyes of images, or to worship wine changed into blood, to say nothing of even more terrible hallneignations on the Eucharist propounded from so-called Protestant pulpits, and that, in spite of all this, we should not call the Christian religion dying or dead. This is true, and I thought that by my remarks on the different revivals of Hinduism from the twelfth to the nineteenth century, I had sufficiently indicated that new life may spring even from such apparently hopeless corruption. If it is Brahmanism that lives in the sects of Ramanuga and Ramananda, in the poetry of Kabir and the wisdom of Nanak, in the honest purposes of Ram Mohun Roy and in the high aspirations of Keshub Chunder Sen, then I quite agree with Mr. Lyall that Brahmanism is not dead, but lives more internely than ever.

But here, for some reason or other, Mr. Lyall seems to demur to my hopeful estimate of Brahmoism. He had expressed his own conviction that Brahmaniam, though it might suddenly collapse and vanish, was more likely gradually to spiritualize and centralize its Pautheon, reduce its theology to a compact system, soften down its morals by symbolisms and interportations, discard 'dogmatic extremes," and gen-

erally to bring itself into accordance with improved standards of science and intelligence. He had also quoted with implied approval the remark of qualified observers, "that we might at any time witness a great Brahmanic reforming revival in India, if some really gifted and singularly powerful prophet were to arise among the Hindus." But when I hinted that this prophet had actually arisen, and that in Brahmoism, as preached by Ram Mohun Roy, Debendranath Tagore, and Keshub Chunder Sen, we ought to recognize a transition from Brahmanism to a purer faith; when I pointed out that, though Christian missionaries might not wish to recognize Brahmoism as their work, it was the work of those missionary Christians who have lived in India as examples of a true Christian life, who have approached the natives in a truly missionary spirit, in the spirit of truth and in the spirit of love, Mr. Lyall replies that "Brahmoism, as propagated by Keshub Chunder Sen, seems to be Unitarianism of an European type, and, so far as one can understand its argument, appears to have no logical stability or locus standi between revelation and pure rationalism; that it propounds either too much or too little to its hearers." "A faith," he continues, " which contains mere fervent sentiments, and high conceptions of morality, does not partake of the complexion or nature of those religious which have encompassed the heart of great nations, nor is it generally supposed in India that Brahmoism is perceptibly on the increase."

Mutatis mutandis, this is very much what an orthodox Rabbi might have said of Christianity. Let us wait. I am not given to prophecy, but though I am no longer young, I still hold to a belief that a

cause upheld with such honesty of purpose, purity, and unselfishness as Brahmoism has been, must and will meet with ultimate success. Does Mr. Lyall think that Unitarian Christianity is no Christianity ? Does he find logical stability in Trinitarianism? Does he consider pure rationalism incompatible with revelation? Does he know of any teacher who might not be accused of saving either too little or too much? In A. D. 890 the Double Procession was as much a burning question as the Homoomia in 824, - are, therefore, both Channing and Dr. Döllinger to be anathematized now? Brahmoism may not be like the religions of old, but must the religions of the future be like the religions of the past? However, I do not wish to draw Mr. Lyall into a theological argument. His estimate of the real value and vitality of Brahmoism may be right, mine may be wrong. His presence in India, and his personal intercourse with the Brahmos, may have given him opportunities of judging which I have not. Only let us not forget that for watching the movements of a great struggle, and for judging of its successful issue, a certain distance from the field of battle has its advantages, and that judges in India have not always proved the best indres of India.

One point, however, I am quite willing to concede. If Brahmeism and similar movements may be considered as reforms and resuscitations of Brahmanism, then I withdraw my expression that Brahmanism is dead. Only let us remember that we are thus using Brahmanism in two very different senses, that we are again playing with words. In the one sense it is stark idelatry, in the other the loftiest spiritual worship. The former asserts the existence of many personal

gods, the latter shrinks even from the attribute of personality as too human a conception of the Highest Spirit. The former makes the priest a kind of god on earth, the latter proclaims the priesthood of all men; the former is guided by scriptures which man calls sacred, the latter knows of no sacred oracles but the still small voice in the heart of every man. The two are like two opposite poles. What is negative on one side is positive on the other; what is regarded by the one as the most sacred truth is anothematized by the other as deadly error.

Mr. Lvall tells us of Ghasi Das, an inspired prophet, who sojourned in the wilderness for six months, and then issued forth preaching to the poor and ignorant the creed of the True Name (Satnam). He gathered about half a million people together before he died in 1850. He borrowed his doctrines from the well-known Hindu sect of the Satnamis, and though he denounced Brahmanic abuses, he instituted caste rules of his own, and his successor was murdered, not for heresy, but because he aped Brahmanic insignia and privileges. Mr. Lyall thinks that this community, if left alone, will relapse into a modified Brahmanism. This may be so, but it can hardly be said, that a reform, the followers of which are murdered for aping Brahmanie insignia and privileges, represents Brahmaniam which Mr. Lyall defines as "the broad denomination of what is recognized by all Hindus as the supreme theological faculty and the comprehensive scheme of authoritative tradition to which all minor beliefs are referred for sanction."

When I spoke of Brahmanism as dead, I meant the popular orthodox Brahmanism, which is openly patronized by the Brahmans, though scorned by them in accret; I did not, and could not, mean the worship of Bramali as the Supreme Spirit, which has existed in India from the time of the Upanishads to the present day, and has lately assumed the name of Brahmoism,—a worship so pure, so exalted, so deeply human, so truly divine, that every man can join in it without apostasy, whether he be born a Jew, a Gentile, or a Christian.

That many antagonistic forms of religious faith, some the most degraded, others the most exaited, should live on the same soil, among the same people, is indeed a disheartening truth, enough almost to shake one's belief in the common origin and the common destinies of the human race. And yet we must not shut our eyes to the fact that amongst ourselves, too, men who call themselves Christians are almost as widely separated from each other in their conceptions of the Divine and the Human, in their grounds of belief and in their sense of duty, as, in India, the worshippers of Ganesa, the god of success, with four hands and an elephant's head, sitting on a rat, on one side, and the believers in the true Brahma on the other. There is a Christianity that is dead, though it may be professed by millions of people, but there is also, let us trust, a Christianity that is alive, though it may count but twelve apostles. As in India, so in Europe, many would call death what we call life, many would call life what we call death. Here, as elsewhere, it is high time that men should define the exact meaning of their words, trusting that definiteness, frankness, and honesty may offer a better chance of mutual understanding, and serve as a stronger bond of union between man and man, than vague formulas, faint-hearted reticence, and what is at the root of it

all, want of true love of Man, and of true faith in God.

If Mr. Lyall imagined that the object of my Lecture was to discourage missionary efforts, he must have found out his mistake, when he came to read it, as I delivered it in Westminster Abbey. I know of no nobler life than that of a true missionary. I tried to defend the labors of the paternal missionary against dispuraging criticisms. I tried to account for the small success of controversial missions, by showing how little is gained by mere argument and casuistry at home. And I pointed to the indirect missionary influence, exercised by every man who leads a Christian life in India or elsewhere, as the most encouraging sign of the final triumph of a pure and living Christianity. It is very possible, as Mr. Lyall says somewhat sarcastically, that "missionaries will even yet hardly agree that the essentials of their religion are not in the creeds, but in love; because they are sent forth to propound scriptures which say clearly that what we believe or disbelieve is literally a burning question." But those who, with Mr. Lyall, consider love of man founded on love of God, nothing but "flat morality," must have forgotten that a Higher One than they declared, that on these two hang all the law and the commandments. By placing abstruse tenets, the handiwork of Popes and Councils, in the place of Christ's teaching, and by making a belief in these positive articles a burning question, weak mortals have driven weak mortals to ask, "Are we Christians still?" Let them for once "by observation and experience" try the oldest and simplest and most positive article of Christianity, real love of man founded on real love of God, and I believe they will soon ask themselves, "When shall we be Christians at last?"

VII.

OPENING ADDRESS.

DELIVERED BY THE PRESIDENT OF THE ABYAN SEC-TION AT THE INTERNATIONAL CONGRESS OF ORI-ENTALISTS, HELD IN LONDON, SEPTEMBER 14-21, 1874.

No one likes to be asked, what business he has to exist, and yet, whatever we do, whether singly or in concert with others, the first question which the world never fails to address to us, is Die cur hie? Why are you here? or to put it into French, What is your raison d'être? We have had to submit to this examination even before we existed, and many a time have I been asked the question, both by friend and foe, What is the good of an International Congress of Orientalists?

I shall endeavor, as shortly as possible, to answer that question, and show that our Congress is not a mere fortuitous congeries of barren atoms or molecules, but that we are at least Leibnizian monads, each with his own self, and force and will, and each determined, within the limits of some precistablished barmony, to help in working out some common purpose, and to achieve some real and lasting good.

It is generally thought that the chief object of a scientific Congress is social, and I am not one of those who are incapable of appreciating the delights and

benefits of social intercourse with hard-working and honest-thinking men. Much as I detest what is commonly called society, I willingly give up glaciers and waterfalls, cathedrals and picture galleries, for one half hour of real society, of free, frank, fresh, and friendly intercourse, face to face, and mind to mind, with a great, and noble, and loving soul, such as was Bussen; with a man intrepid in his thoughts, his words, and his deeds, such as was John Stnart Mill; or with a scholar who, whather he had been quarrying heavy blocks, or chiseling the most brittle filigree work, poured out all his treasures before you with the pride and pleasure of a child, such as was Eugéne Barnouf. A Congress therefore, and particularly an International Congress, would certainly seem to answer some worthy purpose, were it only by bringing together fellow workers of all countries and ages, by changing what were to us merely great names into pleasant companions, and by satisfying that very right and rational curiosity which we all feel, after having read a really good book, of seeing what the man looks like who could achieve such triumphs.

All this is perfectly true; yet, however pleasant to ourselves this social intercourse may appear, in the eyes of the world at large it will hardly be considered a sufficient excuse for our existence. In order therefore to satisfy that outer world that we are really doing something, we point of course to the papers which are read at our public meetings, and to the discussions which they elicit. Much as I value that feature also in a scientific congress, I confess I doubt, and I know that many share that doubt, whether the same result might not be obtained with much less trouble. A paper that contains something really new

and valuable, the result, it may be, of years of toil and thought, requires to be read with care in a quiet corner of our own study, before the expression of our assent or dissent can be of any weight or value. There is too much hollow praise, and occasionally too much wrangling and ill-natured abuse at our scientific tournaments, and the world at large, which is never without a tinge of malice and a vein of quiet humor, has frequently expressed its concern at the waste of "oil and vinegar" which is occasioned by the frequent meetings of our British and Foreign Associations.

What then is the real use of a Congress, such as that which has brought us together this week from all parts of the world? What is the real exense for our existence? Why are we here, and not in our

workshops?

It seems to me that the real and permanent use of

these scientific gatherings is twofold.

(1) They enable us to take stock, to compare notes, to see where we are, and to find out where we ought to be going.

(2) They give us an opportunity, from time to time, to tell the world where we are, what we have been doing for the world, and what, in return, we

expect the world to do for us.

The danger of all scientific work at present, not only among Oriental scholars, but, as far as I can see, everywhere, is the tendency to extreme specialization. Our age shows in that respect a decided reaction against the spirit of a former age, which those with gray heads among us can still remember, an age represented in Germany by such names as Humboldt, Ritter, Böckh, Johannes, Müller, Bopp, Bunsen, and others; men who look to us like giants, carrying a

weight of knowledge far too heavy for the shoulders of such mortals as now be; ave, men who were giants, but whose chief strength consisted in this, that they were never entirely absorbed or bewildered by special researches, but kept their eye steadily on the highest objects of all human knowledge; who could trace the vast outlines of the kosmos of nature or the kosmos of the mind with an unwavering hand, and to whose maps and guide books we must still recur, whenever we are in danger of losing our way in the mazes of minute research. At the present moment such works as Humboldt's "Kosmos," or Bopp's "Comparative Grammar," or Bunsen's "Christianity and Mankind," would be impossible. No one would dare to write them, for fear of not knowing the exact depth at which the Protogenes Harckelii has lately been discovered or the lengthening of a vowel in the Samhitapatha of the Rig-Veda. It is quite right that this should be so, at least, for a time; but all rivers, all brooks, all rills, are meant to flow into the ocean, and all special knowledge, to keep it from stagnation. must have an outlet into the general knowledge of the world. Knowledge for its own sake, as it is sometimes called, is the most dangerous idol that a student can worship. We despise the miser who amasses money for the sake of money, but still more contemptible is the intellectual miser who hoards up knowledge instead of spending it, though, with regard to most of our knowledge, we may be well assured and satisfied that, as we brought nothing into the world so we may carry nothing out.

Against this danger of mistaking the means for the end, of making bricks without making mortar, of working for ourselves instead of working for others,

meetings such as our own, bringing together so large a number of the first Oriental scholars of Europe, seem to me a most excellent safeguard. They draw us out of our shell, away from our common routine. away from that small orbit of thought in which each of us moves day after day, and make us realize more fully, that there are other stars moving all around us in our little universe, that we all belong to one celestial system, or to one terrestrial commonwealth, and that, if we want to see real progress in that work with which we are more especially entrusted, the re-conquest of the Eastern world, we must work with one another, for one another, like members of one body, like soldiers of one army, guided by common principles, striving after common purposes, and sustained by common sympathies. Oriental literature is of such enormous dimensions that our small army of scholars can occupy certain prominent positions only; but those points, like the stations of a trigonometrical survey, ought to be carefully chosen, so as to be able to work in harmony together. I hope that in that respect our Congress may prove of special benefit. We shall hear, each of us, from others, what they wish us to do. "Why don't you finish this?" "Why don't you publish that?" are questions which we have already heard asked by many of our friends. We shall be able to avoid what happens so often, that two men collect materials for exactly the same work, and we may possibly hear of some combined effort to carry out great works, which can only be carried out viribus unitis, and of which I may at least mention one, a translation of the "Sacred Books of Mankind." Important progress has already been made for setting on foot this great undertaking, an undertaking which

I think the world has a right to demand from Oriental scholars, but which can only be carried out by joint action. This Congress has helped us to lay the foundation-stone, and I trust that at our next Congress we shall be able to produce some tangible results.

I now come to the second point. A Congress enables us to tell the world what we have been doing. This, it seems to me, is particularly needful with regard to Oriental studies which, with the exception of Hebrew, still stand outside the pale of our schools and universities, and are cultivated by the very smallest number of students. And yet, I make bold to say, that during the last hundred, and still more during the last fifty years, Oriental studies have contributed more than any other branch of scientific research to change, to purify, to clear, and itensify the intellectual atmosphere of Europe, and to widen our horizon in all that pertains to the Science of Man, in history, philology, theology, and philosophy. We have not only conquered and annexed new worlds to the ancient empire of learning, but we have leavened the old world with ideas that are already fermenting even in the daily bread of our schools and universities. Most of those here present know that I am not exaggerating; but as the world is skeptical while listening to orations pro demo, I shall attempt to make good my assertions.

At first, the study of Oriental literature was a matter of curiosity only, and it is so still to a great extent, particularly in England. Sir William Jones, whose name is the only one among Oriental scholars that has ever obtained a real popularity in England, represents most worthily that phase of Oriental studies. Read only the two volumes of his life, and they will certainly leave on your mind the distinct impression that Sir William Jones was not only a man of extensive learning and refined taste, but undoubtedly a very great man—one in a million. He was a good classical scholar of the old school, a well-read historian, a thoughtful lawyer, a clear-headed politician, and a true gentleman, in the old sense of the word. He moved in the best, I mean the most cultivated society, the great writers and thinkers of the day listened to him with respect, and say what you like, we still live by his grace, we still draw on that stock of general interest which he excited in the English mind for Eastern subjects.

Yet the interest which Sir William Jones took in Oriental literature was purely asthetic. He chose what was beautiful in Persian and translated it, as he would translate an ode of Horace. He was charmed with Kalidasa's play of "Sakuntala"-and who is not? - and he left us his classical reproduction of one of the finest of Eastern gems. Being a judge in India, he thought it his duty to acquaint himself with the native law-books in their original language, and he gave us his masterly translation of the "Laws of Manu." Sir William Jones was fully aware of the startling similarity between Sanskrit, Latin, and Greek. More than a hundred years ago, in a letter written to Prince Adam Czartoryski, in the year 1770, he says: "Many learned investigators of antiquity are fully persuaded, that a very old and almost primeval language was in use among the northern mations, from which not only the Celtic dialect, but even Greek and Latin are derived; in fact, we find warne and poirgo in Persian, nor is Beyargo so far removed

from deckter, or even \$\text{isopa}\$ and nomen from Persian ndm, as to make it ridiculous to suppose that they aprang from the same root. We must confess," he adds, "that these researches are very obscure and uncertain, and you will allow, not so agreeable as an ode of Hafez, or an elegy of Amr'alkeis." In a letter, dated 1787, he says: "You will be surprised at the resemblance between Sanskrit and both Greek and Latin."

Colebrooke also, the great successor of Sir William Jones, was fully aware of the relationship between Sanskrit, Greek, Latin, German, and even Slavonic. I possess some curious MS, notes of his, of the year 1801 or 1802, containing long lists of words, expressive of the most essential ideas of primitive life, and which he proved to be identical in Sanskrit, Greek, Latin, German, and Slavonic.

Yet neither Colebrooke nor Sir William Jones perceived the full import of these facts. Sir William Jones died young; Colebrooke's energies, marvelous as they were, were partly absorbed by official work, so that it was left to German and French scholars to bring to light the full wealth of the mine which those great English scholars had been the first to open. We know now that in language, and in all that is implied by language, India and Europe are one; but to prove this, against the incredulity of all the greatest scholars of the day, was no easy matter. It could be done effectually in one way only, viz., by giving to Oriental studies a strictly scientific character, by requiring from Oriental students not only the devo-

¹ These lists of common Aryan words were published in the Academy, October 10, 1874, and are reprinted at the end of the next article "On the Life of Colabrooks."

tion of an amateur, but the same thoroughness, minuteness, and critical accuracy which were long considered the exclusive property of Greek and Latin scholars. I could not think of giving here a history of the work done during the last fifty years. It has been admirably described in Benfey's "History of the Science of Language." Even if I attempted to give mercily the names of those who have been most distinguished by really original discoveries—the names of Bopp, Pott, Grimm, Burnouf, Rawlinson, Miklosich, Benfey, Kuhn, Zeuss, Whitley, Stokes—I am afraid my list would be considered very incomplete.

But let us look at what has been achieved by these men, and many others who followed their banners! The East, formerly a land of dreams, of fables, and fairies, has become to us a land of unmistakable reality; the curtain between the West and the East has been lifted, and our old forgotten home stands before us again in bright colors and definite outlines. Two worlds, separated for thousands of years, have been reunited as by a magic spell, and we feel rich in a past that may well be the pride of our noble Arvan family. We say no longer vaguely and poetically Ex Oriente Lux, but we know that all the most vital elements of our knowledge and civilization, - our languages, our alphabets, our figures, our weights and measures, our art, our religion, our traditions, our very nursery stories, come to us from the East; and we must confess that but for the rays of Eastern light, whether Aryan or Semitic or Hamitic, that called forth the hidden germs of the dark and dreary West, Europe, now the very light of the world, might

t Geschichte der Sprachmissenschaft und Orientalischen Philologie in Deutschlund, von Theodox Banfey. München, 1860.

have remained forever a barren and forgotten promontory of the primeval Asiatic continent. We live indeed in a new world; the barrier between the West and the East, that seemed insurmountable, has vanished. The East is ours, we are its heirs, and claim

by right our share in its inheritance.

We know what it was for the Northern nations, the old barbarians of Europe, to be brought into spiritual contact with Rome and Greece, and to learn that beyond the small, poor world in which they had moved, there was an older, richer, brighter world, the ancient world of Rome and Athens, with its arts and laws, its poetry and philosophy, all of which they might call their own and make their own by claiming the heritage of the past. We know how, from that time, the Classical and Toutonic spinis mingled together and formed that stream of modern thought on whose shores we ourselves live and move. A new stream is now being brought into the same bed, the stream of Oriental thought, and already the colors of the old stream show very clearly the influence of that new tributary. Look at any of the important works published during the last twenty years, not only on language, but on literature, mythology, law, religion, and philosophy, and you will see on every page that working of a new spirit. I do not say that the East can ever teach us new things, but it can place before us old things, and leave us to draw from them lessons more strange and startling than anything dreamt of in our philosophy.

Before all, a study of the East Ims taught us the same lesson which the Northern nations once learnt in Rome and Athens, that there are other worlds beside our own, that there are other religious, other

mythologies, other laws, and that the history of philosophy from Thales to Hegel is not the whole history. of human thought. In all these subjects the East has supplied us with parallels, and with all that is implied in parallels, viz., the possibility of comparing, measuring, and understanding. The comparative spirit is the truly scientific spirit of our age, nay of all ages. An empirical acquaintance with single facts does not constitute knowledge in the true sense of the word. All human knowledge begins with the Two or the Dyad, the comprehension of two single things as one. If in these days we may still quote Aristotle, we may boldly say that "there is no science of that which is unique." A single event may be purely accidental, it comes and goes, it is inexplicable, it does not call for an explanation. But as soon as the same fact is repeated, the work of comparison begins, and the first step is made in that wonderful process which we call generalization, and which is at the root of all intellectual knowledge and of all intellectual language. This primitive process of comparison is repeated again and again, and when we now give the title of Comparative to the highest kind of knowledge in every branch of science, we have only replaced the old word intelligent (i. c., interligent) or inter-twining, by a new and more expressive term, comparative. I shall say nothing about the complete revolution of the study of langaages by means of the comparative method, for here I can appeal to such names as Mourmsen and Curtius, to show that the best among classical scholars are themselves the most ready to acknowledge the importance of the results obtained by the intertwining of Eastern and Western philology.

But take mythology. As long as we had only the mythology of the classical nations to deal with, we looked upon it simply as strange, anomalous, and irrational. When, however, the same strange stories, the same hallucinations, turned up in the most ancient mythology of India, when not only the character and achievements, but the very names of some of the gods and heroes were found to be the same, then every thoughtful observer saw that there must be a system in that ancient madness, that there must be some order in that strange mob of gods and heroes, and that it must be the task of comparative mythology to find out, what reason there is in all that mass of unreason.

The same comparative method has been applied to the study of religion also. All religions are Oriental, and with the exception of the Christian, their sacred books are all written in Oriental languages. The materials, therefore, for a comparative study of the religious systems of the world had all to be supplied by Oriental scholars. But far more important than these materials, is the spirit in which they have been treated. The sacred books of the principal religious of mankind had to be placed side by side with perfeet impartiality, in order to discern the points which they share in common as well as those that are peculiar to each. The results already obtained by this simple juxtaposition are full of important lessons, and the fact that the truths on which all religious agree far exceed those on which they differ, has hardly been sufficiently appreciated. I feel convinced, however, that the time will come when those who at present profess to be most disquieted by our studies, will be the most grateful for our support, - for having

shown by evidence which cannot be controverted, that all religious spring from the same sacred soil, the human heart; that all are quickened by the same divine spirit, the still small voice; and that, though the outward forms of religion may change, may wither and decay, yet, as long as man is what he is and what he has been, he will postulate again and again the Infinite as the very condition of the Finite, he will yearn for something which the world cannot give, he will feel his weakness and dependence, and in that weakness and dependence discover the deepest sources of his hope, and trust, and strength.

A patient study of the sacred scriptures of the world is what is wanted at present more than anything else, in order to clear our own ideas of the origin, the nature, the purposes of religion. There can be no science of one religion, but there can be a science of many. We have learnt already one lesson, that behind the helpless expressions which language has devised, whether in the East or in the West, for utter ing the unutterable, be it Dyaushpita or Ahuramazda, be it Johovah or Allah, be it the All or the Nothing. be it the First Cause or Our Father in heaven, there is the same intention, the same striving, the same stammering, the same faith. Other lessons will follow, till in the end we shall be able to restore that ancient bond which unites not only the East with the West, but all the members of the human family, and may learn to understand what a Persian poet meant when he wrote many centuries ago (I quote from Mr. Conway's "Sacred Anthology"), "Diversity of worship has divided the human race into seventy-two nations. From among all their dogmas I have selected one - the Love of God."

Nor is this comparative spirit restricted to the treatment of language, mythology, and religion. While hitherto we knew the origin and spreading of most of the ancient arts and sciences in one channel only, and had to be satisfied with tracing their sources to Greece and Rome, and thence down the main stream of European civilization, we have now for many of them one or two parallel histories in India and in China. The history of geometry, for instance, - the first formation of geometrical conceptions or technical terms - was hitherto known to us from Greece only: now we can compare the gradual elaboration of geometrical principles both in Greece and India, and thus arrive at some idea of what is natural or inevitable, and what is accidental or purely personal in each. It was known, for instance, that in Greece the calculation of solid figures began with the building of altars, and you will hear to-day from Dr. Thibaut, that in India also the first impulse to geometric science was given, not by the measuring of fields, as the name implies, but by the minute observances in building altars.

Similar coincidences and divergences have been brought to light by a comparative study of the history of astronomy, of music, of grammar, but, most of all, by a comparative study of philosophic thought. There are indeed few problems in philosophy which have not occupied the Indian mind, and nothing ;an exceed the interest of watching the Hindu and the Greek, working on the same problems, each in his own way, yet both in the end arriving at much the same results. Such are the coincidences between the two, that but lately an eminent German professor,

Aristoteles Metaphysik, eine Tachter der Sänkhys Lehre des Kapila, von Dr. C. B. Schlüter. 1874.

published a treatise to show that the Greeks had borrowed their philosophy from India, while others lean to the opinion that in philosophy the Hindus are the pupils of the Greeks. This is the same feeling which impelled Dugald Stewart, when he saw the striking similarity between Greek and Sanskrit, to maintain that Sanskrit must have been put together after the model of Greek and Latin by those arch-forgers and liars, the Brahmans, and that the whole of Sanskrit literature was an imposition. The comparative method has put an end to such violent theories. It teaches as that what is possible in one country is possible also in another; it shows us that, as there are antecedents for Plato and Aristotle in Greece, there are antecedents for the Vedanta and Sankhya philosophies in India, and that each had its own independent growth. It is true, that when we first meet in Indian philosophy with our old friends, the four or five elements, the atoms, our metaphysics, our logic, our syllogism, we are startled; but we soon discover that, given the human mind and human language, and the world by which we are surrounded, the different systems of philosophy of Thules and Hegel, of Vyasa and Kapila, are inevitable solutions. They all come and go, they are maintained and refuted, till at last all philosophy. ends where it ought to begin, with an inquiry into the necessary conditions and the inevitable forms of knowledge, represented by a criticism of Pure Reason and, what is more important still, by a criticism of Language.

Much has been done of late for Indian philosophy, particularly by Ballantyne and Hall, by Cowell and Gough, by the editors of the "Bibliotheca Indica," and the "Pandit." Yet it is much to be desired, that

some young scholars, well versed in the history of European philosophy, should devote themselves more ardently to this promising branch of Indian literature. No doubt they would find it a great help, if they were able to spend some years in India, in order to learn from the last and fast disappearing representatives of some of the old schools of Indian philosophy what they alone can teach. What can be done by such a combination of Eastern and Western knowledge, has lately been shown by the excellent work done by Dr. Kielhorn, the Professor of Sanskrit at the Decean College in Punah. But there is now so much of published materials, and Sanskrit MSS, also are so easily obtained from India, that much might be done in England, or in France, or in Germany - much that would be of interest not only to Oriental scholars, but to all philosophers whose powers of independent appreciation are not entirely blunted by their study of Plato and Aristotle, of Berkeley, Hume, and Kant.

I have so far dwelt chiefly on the powerful influence which the East, and more particularly India, has exercised on the intellectual life and work of the West. But the progress of Oriental scholarship in Europe, and the discovery of that spiritual relationship which binds India and England together, have likewise produced practical effects of the greatest moment in the East. The Hindus, in their first intercourse with English scholars, placed before them the treasures of their native literature with all the natural pride of a nation that considered itself the oldest, the wisest, the most enlightened nation in the world. For a time, but for a short time only, the claims of their literature to a fabulous antiquity were admitted, and dazzled by the unexpected discovery of a new classical literature,

people raved about the beauty of Sanskrit poetry in truly Oriental strains. Then followed a sudden reaction, and the natives themselves, on becoming more and more acquainted with European history and liternture, began to feel the childishness of their claims, and to be almost ashamed of their own classics. This was a national misfortune. A people that can feel no pride in the past, in its history and literature, loses the mainstay of its national character. When Germany was in the very depth of its political degradation, it turned to its ancient literature, and drew hope for the future from the study of the past. Something of the same kind is now passing in India. A new taste, not without some political ingredients, has sprang up for the ancient literature of the country; a more intelligent appreciation of their real merits has taken the place of the extravagant admiration for the masterworks of their old poets; there is a revival in the study of Sanskrit, a surprising activity in the republication of Sanskrit texts, and there are traces among the Hindus of a growing feeling, not very different from that which Tacitus described, when he said of the Germans: "Who would go to Germany, a country without natural beauty, with a wretched climate, miserable to cultivate or to look at-unless it be his fatherland ?"

Even the discovery that Sanskrit, English, Greek, and Latin are cognate languages, has not been without its influence on the scholars and thinkers, or the leaders of public opinion, in India. They, more than others, had felt for a time most keenly the intellectual superiority of the West, and they rose again in their own estimation by learning that, physically, or at all events, intellectually, they had been and might be

again, the peers of Greeks and Romans and Saxons.

These ailant influences often escape the eye of the
politician and the historian, but at critical moments
they decide the fate of whole nations and empires.

The intellectual life of India at the present moment is full of interesting problems. It is too much the fashion to look only at its darker sides, and to forget that such intellectual regenerations as we are witnessing in India, are impossible without convulsions and failures. A new race of men is growing up in India, who have stepped, as it were, over a thousand years, and have entered at once on the intellectual inheritance of Europe. They carry off prizes at English schools, take their degrees in English universities, and are in every respect our equals. They have temptations which we have not, and now and then they succumb; but we, too, have temptations of our own, and we do not always resist. One can hardly trust one's eves in reading their writings, whether in English or Bengali, many of which would reflect credit on our own Quarterlies. With regard to what is of the greatest interest to us, their scholarship, it is true that the old school of Sanskrit scholars is dying out, and much will die with it which we shall never recover; but a new and most promising school of Sanskrit students, educated by European professors, is springing up, and they will, nay, to judge from recent controversies, they have already become most formidable rivals to our own scholars. The essays of Dr. Bimo Daji, whom, I regret to say, we have lately lost by death, on disputed points in Indian archaeology and literature, are most valuable. The indefatigable Rajendra Lai Mitra is rendering most excellent service in the publications of the Asiatic Society at Calcutta

and he discusses the theories of European Orier talists with all the ease and grace of an English reviewer. The Rajah of Besmah, Giriprasada-sinha, has just finished his magnificent edition of the "White Yajurveda." The Sanskrit books published at Calcutta by Tārānātha, and others, form a complete library, and Taranathu's new "Dictionary of the Sanskrit Lauguage" will prove most useful and valuable. The editions of Sanskrit texts published at Bombay by Professor Bhândârkar, Shankar Pandurang Pandit, and others, need not fear comparison with the best work of European scholars. There is a school of mative students at Benares whose publications, under the auspices of Mr. Griffith, have made their journal, the "Pandit," indispensable to every Sanskrit scholar. Rājārāmasāstri's and Bālasāstri's edition of the "Mahâbhâshya" has received the highest praise from European students. In the "Antiquary," a paper very ably conducted by Mr. Burgess, we meet with contributions from several learned natives, among them from his Highness the Prince of Travancore, from Ram Dass Sen, the Zemindar of Berhampore, from Käshinath Trimbak Telang, from Sashagirisastri, and others, which are read with the greatest interest and advantage by European scholars. The collected esmays of Ram Dass Sen well deserve a translation into English and Rajanikanta's "Life of the Poet Jajadova," just published, bears witness to the same revival of literary tastes and patriotic feelings.

Besides this purely literary movement, there is a religious movement going on in India, the Brahmo-Samāj, which, both in its origin and its later development, is mainly the result of European influences. It began with an attempt to bring the modern corrupt

forms of worship back to the purity and simplicity of the Vedas; and by ascribing to the Veda the authority of a Divine Revelation, it was hoped to seeme that infallible authority without which no religion was supposed to be possible. How was that movement stopped, and turned into a new channel? Simply by the publication of the Veda, and by the works of European scholars, such as Stevenson, Mill, Rosen, Wilson, and others, who showed to the natives what the Veda really was, and made them see the folly of their way.1 Thus the religion, the literature, the whole character of the people of India are becoming more and more Indo-European. They work for us, as we work for them. Many a letter have I received from native scholars in which they express their admiration for the wonderful achievements of European ingenuity, for railways, and telegraphs, and all the rest; and yet what, according to their own confession, has startled them and delighted them most, is the interest we have taken in their literature, and the new life which we have imparted to their ancient history, I know these matters seem small, when we are near to them, when we are in the very midst of them. Like the tangled threads hanging on a loom, they look worthless, purposeless. But history weaves her woof out of all of them, and after a time, when we see the full and finished design, we perceive that no color, however quiet, could have been dropped, no shade, however slight, could have been missed, without spoilng the whole.

And now, after having given this account of our stewardship, let me say in conclusion a few words on the claims which Oriental studies have on public

sympathy and support.

¹ See Note II, p. 318.

Let me begin with the Universities-I mean, of course the English Universities and more particularly that University which has been to me for many years un Alma Mater, Oxford. While we have there, or are founding there, professorships for every branch of Theology, Jurisprudence, and Physical Science, we have hardly any provision for the study of Oriental languages. We have a chair of Hebrew, rendered illustrious by the greatest living theologian of England, and we have a chair of Sanskrit, which has left its mark in the history of Sanskrit literature; but for the modern languages of India, whether Aryan or Dravidian, for the language and literature of Persia, both ancient and modern, for the language and antiquities of Egypt and Babylon, for Chinese, for Turkish, nay even for Arabic, there is nothing deserving the name of a chair. When in a Report on University Reform, I ventured to point out these gaps, and to remark that in the smallest of German Universities most of these subjects were represented by professors, I was asked whether I was in earnest in maintaining that Oxford, the first University in what has rightly been called the greatest Oriental Empire, ought really to support the study of Oriental languages.

The second claim we prefer is on the Missionary Societies. I have lately incurred very severe obloquy for my supposed hostility to missionary enterprise. All I can say is, I wish that there were ten missionaries for every one we have now. I have always counted missionaries among my best friends; I have again and again acknowledged how much Oriental studies and linguistic studies in general, owe to them, and I am proud to say that, even now,

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while missionaries at home have abused me in unmeasured language, missionaries abroad, devoted, hard-working missionaries, have thanked me for what I said of them and their work in my laysermon in Westminster Abbay last December.

Now it seems to me that, first of all, our Universities, and I think again chiefly of Oxford, might do much more for missions than they do at present. If we had a sufficient staff of professors for Eastern languages, we could prepare young missionaries for their work, and should be able to send out from time to time such men as Patteson, the Bishop of Melanesia, who was every inch an Oxford man, And in these missionaries we might have not only apostles of religion and civilization, but at the same time, the most valuable pioneers of scientific research. I know there are some anthorities at home who declare that such a combination is impossible, or at least undesirable; that a man cannot serve two masters, and that a missionary must do his own work and nothing else. Nothing, I believe, can be more mistaken. First of all, some of our most efficient missionaries have been those who have done also the most excellent work as scholars, and whenever I have conversed on this subject with missionaries who have seen active service, they all agree that they cannot be converting all day long, and that nothing is more refreshing and invigorating to them than some literary or scientific work. Now what I should like to see is this: I should like to see ten or twenty of our non-resident fellowships, which at present are doing more harm than good, assigned to missionary work, to be given to young men who have taken their degree, and who, whether

laymen or clergymen, are willing to work as assistant missionaries on distant stations, with the distinet understanding that they should devote some of their time to scientific work, whether the study of languages, or flowers, or stars, and that they should send home every year some account of their labors. These men would be like scientific consuls, to whom students at home might apply for information and help. They would have opportunities of distinguishing themselves by really useful work, far more than in London, and after ten years, they might either return to Europe with a well-established reputation, or if they find that they have a real call for missionary work, devote all their life to it. Though to my own mind there is no nobler work than that of a missionary, yet I believe that some such connection with the Universities and men of science would raise their position, and would call out more general interest, and secure to the missionary cause the good-will of those whose will is apt to become how.

Thirdly, I think that Oriental studies have a claim on the colonies and the colonial governments. The English colonies are scattered all over the globe, and many of them in localities where an immense deal of useful scientific work might be done, and would be done with the slightest encouragement from the local authorities, and something like a systematic supervision on the part of the Colonial Office at home. Some years ago I ventured to address the Colonial Secretary of State on this subject, and a letter was sent out in consequence to all the English colonies, inviting information on the languages, monuments, customs, and traditions of the native

races. Some most valuable reports have been sent home during the last five or six years, but when it was suggested that these reports should be published in a permanent form, the expense that would have been required for printing every year a volume of Colonial Reports, and which would not have amounted to more than a few hundred pounds for all the colonies of the British Empire, part of it to be recovered by the sale of the book, was considered too

large.

Now we should bear in mind that at the present moment some of the tribes living in or near the English colonies in Australia, Polynesia, Africa, and America, are actually dying out, their languages are disappearing, their customs, traditions, and religious will soon be completely swept away. To the student of language, the dialect of a savage tribe is as valuable as Sanskrit or Hebrew, may, for the solution of certain problems, more so; every one of these languages is the growth of thousands and thousands of years, the workmanship of millions and millions of human beings. If they were now preserved, they might hereafter fill the most critical gaps in the history of the human race. At Rome at the time of the Scipios, hundreds of people might have written down a grammar and dictionary of the Etruscan language, of Oscan, or Umbrian; but there were men then, as there are now, who shrugged their shoulders and said, What can be the use of preserving these barbarous, uncouth idioms? - What would we not give now for some such records?

And this is not all. The study of savage tribes has assumed a new interest of late, when the question of the exact relation of man to the rest of the animal

kingdom has again roused the passions not only of scientific inquirers, but also of the public at large. Now what is wanted for the solution of this question, are more facts and fewer theories, and these facts can only be gained by a patient study of the lowest races of mankind. When religion was held to be the specific character of man, it was asserted by many travellers that they had seen races without any religious ideas; when language was seen to be the real frontier line between man and beast, it was maintained that there were human beings without language. Now all we want to know are facts, let the conclusions be whatever they may. It is by no means easy to decide whether savage tribes have a religion or not; at all events it requires the same discernment, and the same honesty of purpose as to find out whether men of the highest intellect among us have a religion or not. I call the Introduction to Spencer's "First Principles" deeply religious, but I can well understand that a missionary, reporting on a tribe of Spencerian savages, might declare that they had no idea whatsoever of religion. Looking at a report sent home lately by the indefatigable Governor of New South Wales, Sir Hercules Robinson, I find the following description of the religious ideas of the Kamilarois, one of the most degraded tribes in the Northwestern district of the colony : -

"Bhaiami is regarded by them as the maker of all things. The name signifies 'maker,' or 'cutter-out,' from the verb bhai, baialli, baia. He is regarded as the rewarder and punisher of men according to their conduct. He sees all, and knows all, if not directly, through the subordinate deity Turramulan, who presides at the Bora. Bhaiami is said to have been once on the earth. Turramûlan is mediator in all the operations of Bhaiami upon man, and in all man's transactions with Bhaiami. Turramûlan means

' leg on one aide only,' 'one-legged.' "

This description is given by the Rev. C. Greenway, and if there is any theological bias in it, let us make allowance for it. But there remains the fact that Bhaiami, their name for deity, comes from a root bhai, to "make," to "cut out," and if we remember that hardly any of the names for deity, either among the Aryan or Semitic nations, comes from a root with so abstract a meaning, we shall admit, I think, that such reports as these should not be allowed to lie forgotten in the pigeon-holes of the Colonial Office,

or in the pages of a monthly journal.

What applies to religion, applies to language. We have been told again and again that the Veddahs in Ceylon have no language. Sir Emerson Tennant wrote "that they mutually make themselves understood by signs, grimaces, and guttural sounds, which have little resemblance to definite words or language in general." When these statements were repeated, I tried to induce the Government of Ceylon to send a competent man to settle the question. I did not receive all I wanted, and therefore postponed the publication of what was sent me. But I may say so much, that more than half of the words used by the Veddahs, are, like Singhalese itself, mere corruption of Sanskrit; their very name is the Sanskrit word for hunter, veddhâ, or, as Mr. Childers supposes, vyådha. There is a remnant of words in their language of which I can make nothing as yet. But so much is certain; either the Voddahs started with the common inheritance of Aryan words and ideas, or, at all events, they lived for a long time in contact with Aryan people, and adopted from them such words as were wanting in their language. If they now stand low in the scale of humanity, they once stood higher, may they may possibly prove, in language, if not in blood, the distant cousins of Plato, and Newton, and Goethe.

It is most essential to keep la carrière ouverte for facts, even more than for theories, and for the supply of such facts the Colonial Government might render most useful service.

It is but right to state that whenever I have applied to the Governors of any of the Colonies, I have invariably met with the greatest kindness and readiness to help. Some of them take the warmest interest in these researches. Sir George Grey's services to the science of language have hardly been sufficiently appreciated as yet, and the Linguistic Library which he founded at the Cape, places him of right by the side of Sir Thomas Bodley. Sir Hercules Robinson, Mr. Musgrave in South Australia, Sir Henry Barkley at the Cape, and several others, are quite aware of the importance of linguistic and ethnological researches. What is wanted is encouragement from home, and some systematic guidance. Block, the excellent librarian of Sir George Grey's Library at the Cape, who has devoted the whole of his life to the study of savage dialects, and whose Comparative Grammar of the South African languages will hold its place by the side of Bopp's, Diez's, and Caldwell's Comparative Grammars, is most anxious that there should be a permanent linguistic and ethnological station established at the Cape; in fact, that there should be a linguist attached to every zeological station. At the Cape there are not only the Zulu dialects to be studied, but two most important languages, that of the Hottentots and that of the Bushmen. Dr. Bleek has lately been enabled to write down several volumes of traditional literature from the mouths of some Bushman prisoners, but he says, "my powers and my life are drawing to an end, and unless I have some young men to assist me, and carry on my work, much of what I have done will be lost." There is no time to be lost, and I trust therefore that my appeal will not be considered importunate by the present Colonial Minister.

Last of all, we turn to India, the very cradle of Oriental scholarship, and here, instead of being importunate and arging new claims for assistance, I think I am expressing the feelings of all Oriental scholars in publicly acknowledging the readiness with which the Indian Government, whether at home or in India, whether during the days of the old East India Company, or now under the auspices of the Secretary of State, has always assisted every enterprise tending to throw light on the literature, the religion, the laws and customs, the arts and manufactures of that ancient Oriental Empire.

Only last night I received the first volume of a work which will mark a new era in the history of Oriental typography. Three valuable MSS, of the Mahabhashya have been photolithographed at the expense of the Indian Government, and under the supervision of one whom many of us will miss here to-day, the late Professor Goldstücker. It is a magnificent publication, and as there are only fifty copies printed, it will som become more valuable than a

real MS.

There are two surveys carried on at the present moment in India, a literary and an archeological survey. Many years ago, when Lord Elgin went to India as Governor-general, I suggested to kim the necessity of taking measures in order to rescue from destruction whatever could still be rescued of the ancient literature of the country. Lord Elgin died before any active measures could be taken, but the plan found a more powerful advocate in Mr. Whitley Stokes, who urged the Government to appoint some Sanskrit scholars to visit all places containing collections of Sanskrit MSS, and to publish lists of their titles, so that we might know, at all events, how much of a literature, that had been preserved for thousands of years, was still in existence at the present moment. This work was confided to Dr. Bühler, Dr. Kielhorn, Mr. Burnell, Rajendralal Mitra. and others. Several of their catalogues have been published, and there is but one feeling among all Sanskrit scholars as to the value of their work. But they also feel that the time has come for doing more, The mere titles of the MSS, whet our appetite, but do not satisfy it. There are, of course, hundreds of books where the title, the name of the author, the locus et annus are all we care to know. But of books which are scarce, and hitherto not known out of India, we want to know more. We want some information of the subject and its treatment, and if possible, of the date, of the author, and of the writers quoted by him. We want extracts, intelligently chosen, in fact, we want something like the excellent entalogue which Dr. Aufrecht las made for the Bodleian Library. In Mr. Burnell, Dr. Bühler, Dr. Kielhorn, the Government possesses scholars who

could do that work minimibly; what they want is more leisure, more funds, more assistance.

Contemporaneously with the Literary Survey, there is the Archmological Survey, carried on by that gallant and indefatigable scholar, General Cunningham. His published reports show the systematic progress of his work, and his occasional communications in the Journal of the Asiatic Society of Bengal tell us of his newest discoveries. The very last number of that journal brought us the news of the discovery of the wonderful ruins of the Buddhist temple of Bharnhut,1 which, with their representations of scenes from the early Buddhist literature, with their inscriptions and architectural style, may enable us to find a terminus a que for the literary and religious history of India. We should not forget the services which Mr. Fergusson has rendered to the history of Indian architecture, both by awakening an interest in the subject, and by the magnificent publication of the drawings of the sculptures of Sanchi and Amravati, carried on under the authority of the Secretary of State for India. Let us hope that these new discoveries may supply him with materials for another volume, worthy of its companion.

It was supposed for a time that there was a third survey carried on in India, ethnological and linguistic, and the volume, published by Colonel Dalton, "Descriptive Ethnology of Bengal," with portraits from photographs, was a most excellent beginning. But the other India Governments have not hitherto followed the example of the Bengal Government, and nothing has of late come to my knowledge in this important line of research. Would not Dr.

¹ Academy, August 1, 1874-

Hunter, who has done so much for a scientific study of the non-Aryan languages and races of India, take up this important branch of research, and give us, not only photographs and graphic description, but also, what is most wanted, scholarlike grammars of the principal races of India? Lists of words, if carefully chosen, like those in Colonel Dalton's work and in Sir George Campbell's "Specimens," are, no doubt, most valuable for preliminary researches, but without grammars, none of the great questions which are still pending in Indian Ethnology will ever be satisfactorily and definitely settled. No real advance has been made in the classification of Indian dialects since the time when I endeavored, some twenty years ago, to sum up what was then known on that anbiect, in my letter to Bunsen "On the Turanian Languages," What I then for the first time ventured to maintain against the highest authorities in Indian linguistic ethnology, viz., that the dialects of the Mundas or the Koles constituted a third and totally independent class of languages in India, related neither to the Arvan nor to the Dravidian families, has since been fully confirmed by later researches, and is now, I believe, generally accepted. The fact also, on which I then strongly insisted, that the Urnon Koles, and Rajmabal Koles, might be Koles in blood, but certainly not in language, their language being, like that of the Gonda, Dravidian, is now no longer disputed. But beyond this, all is still as hypothetical as it was twenty years ago, simply because we can get no grammars of the Munda dialects. Why do not the German missionaries at Ranchi, who have done such excellent work among the Koles, publish a grammatical analysis of that

interesting cluster of dialects? Only a week ago, one of them, Mr. Jellinghaus, gave me a grammatical sketch of the Mundari language, and oven this, short as it is, was quite sufficient to show that the supposed relationship between the Munda dialects and the Khasia language, of which we have a grammar, is untenable. The similarities pointed out by Mason between the Munda dialects and the Talaing of Pegu, are certainly startling, but equally startling are the divergences; and here again no real result will be obtained without a comparison of the grammatical structure of the two languages. The other classes of Indian languages, the Tale, the Gangetic, subdivided into Trans-Himalayan and Sub-Himalayan, the Lohitie, and Tamulie, are still retained, though some of their names have been changed. Without wishing to defend the names which I had chosen for these classes, I must say that I look upon the constant introduction of new technical terms as an unmixed evil. Every classificatory term is imperfect. Aryan, Semitic, Hamitic, Turanian, all are imperfeet, but, if they are but rightly defined, they can do no harm, whereas a new term, however superior at first sight, always makes confusion worse confounded. The chemists do not hesitate to call sugar an acid rather than part with an old established term; why should not we in the science of language follow their good example?

Dr. Leitner's labors in Dardistan should here be mentioned. They date from the year 1866. Considering the shortness of the time allotted to him for exploring that country, he has been most successful in collecting his linguistic materials. We owe him a vocabulary of two Shina dialects (the Ghilghiti and

Astori), and of the Arnyia, the Khayuna, and the Kalasha-Mander. These vocabularies are so arranged as to give us a fair idea of the systems of conjugation and declension. Other vocabularies, arranged according to subjects, allow us an insight into the intellectual life of the Shinas, and we also receive most interesting information on the customs, legends, superstitions, and religion of the Dardus. Some of the important results, obtained by the same enterprising scholar in his excavations on the Tukht-i-bahai hitls will be laid before the Archaeological Section of this Congress. It is impossible to look at the Buddhist sculptures which he has brought home without perceiving that there is in them a foreign element. They are Buddhist sculptures, but they differ both in treatment and expression from what was hitherto known of Boddhist art in various parts of the world. Dr. Leitner thinks that the foreign element came from Greece, from Greek or Macedonian workmen, the descendants of Alexander's companions; others think that local and individual influences are sufficient to account for apparent deviations from the common Buddhist type. On this point I feel totally incompetent to express an opinion, but whatever the judgment of our archaeological colleagues may be, neither they nor we ourselves can have any doubt that Dr. Leitner deserves our sincere gratitude as an indefatigable explorer and successful discoverer.

Many of the most valuable treasures of every kind and sort, collected during these official surveys, and by private enterprise, are now deposited in the Indian Museum in London, a real mine of literary and archaeological wealth, opened with the greatest liberality to all who are willing to work in it. It is unfortunate, no doubt, that this meeting of Oriental scholars should have taken place at a time when the treasures of the Indian Museum are still in their temperary exile; yet, if they share in the regret felt by every friend of India, at the delay in the building of a new museum, worthy both of England and of India, they will also carry away the conviction, that such delay is simply due to a desire to do the best that can be done, in order to carry out in the end something little short of that magnificent scheme of an Indian Institute, drawn by the experienced hand of Mr. Forbes Watson.

And now, in conclusion, I have to express my own gratitude for the liberality both of the Directors of the old East India Company and of the present Secretary of State for India in Council, for having enabled me to publish that work the last sheet of which I am able to present to this Meeting to-day, the "Rig-Veda, with the Commentary of Sâyanâkârya." It is the oldest book of the Aryan world, but it is also one of the largest, and its publication would have been simply impossible without the enlightened liberality of the Indian Government. For twenty-five years I find, that taking the large and small editions of the Rig-Veda together, I have printed every year what would make a volume of about six hundred pages octavo. Such a publication would have rained any bookseller, for it must be confessed, that there is little that is attractive in the Veda, nothing that could excite general interest. From an asthetic point of view, no one would care for the hymns of the Rig-Veda, and I can well understand how, in the beginning of our century, even so discriminating a scholar as Colebrooke could express his opinion that,

14 The Vedus are too voluminous for a complete translation, and what they contain would hardly reward the labor of the reader, much less that of the translator. The ancient dialect in which they are composed, and specially that of the three first Vedas, is extremely difficult and obscure; and, though curious, as the parent of a more polished and refined language, its difficulties must long continue to prevent such an examination of the whole Vedas, as would be requisite for extracting all that is remarkable and importaut in those voluminous works. But they well deserve to be occasionally consulted by the Oriental scholar." Nothing shows the change from the purely asthetic to the purely scientific interest in the language and literature of India more clearly than the fact that for the last twenty-five years the work of nearly all Sanskrit scholars has been concentrated on the Veda. When some thirty years ago I received my first lessons in Sanskrit from Professor Brockhaus, whom I am happy and proud to see to-day among us, there were but few students who ventured to dive into the depths of Vedic literature. To-day among the Sanskrit scholars whom Germany has sent to us -Professors Stenzler, Spiegel, Weber, Haug, Pertsch, Windisch - there is not one who has not won his laurels on the field of Vedic scholarship. In France also a new school of Sanskrit students has sprung up who have done most excellent work for the interpretation of the Veda, and who bid fair to rival the glorious school of French Orientalists at the beginning of this century, both by their persevering industry and by that "sweetness and light" which seems to be the birthright of their nation. But, I say again, there is little that is beautiful, in our sense of the

word, to be found in the hymns of the Rig-Veda, and what little there is, has been so often dwelt on, that quite an erroneous impression as to the real nature of Vedic poetry has been produced in the mind of the public. My old friend, the Dean of St. Paul's, for instance, in some thoughtful lectures which he delivered this year on the "Sacred Poetry of Early Religions," has instituted a comparison between the Psalms and the hymns of the Veda, and he arrives at the conclusion that the Psalms are superior to the Vedic hymns. No doubt they are, from the point of view which he has chosen, but the chief value of these hymna lies in the fact that they are so different from the Psalms, or, if you like, that they are so inferior to the Psalms. They are Aryan, the Psalms Semitie; they belong to a primitive and rade state of society, the Psalms, at least most of them, are contemporaneous with or even later than the heydays of the Jewish monarchy. This strange miscenception of the true character of the Vedic hymns seemed to me to become so general, that when some years ago I had to publish the first volume of my translation, I intentionally selected a class of hymns which should in no way encourage such erroneous opinions. It was interesting to watch the disappointment. What, it was said, are those strange, savage, grotesque invocations of the Storm-gods, the inspired strains of the ancient sages of India? Is this the wisdom of the East? Is this the primeval revelation? Even scholars of high reputation joined in the outery, and my friends hinted to me that they would not have wasted their life on such a book.

Now, suppose a geologist liad brought to light the bones of a fossil animal, duting from a period anterior

to any in which traces of animal life had been discovered before, would any young lady venture to say by way of criticism, "Yes, these bones are very curious, but they are not pretty!" Or suppose a new Egyptian statue had been discovered, belonging to a dynasty hitherto unrepresented by any statues, would even a school-boy dare to say, "Yes, it is very nice, but the Venus of Milo is nicer?" Or suppose an old MS, is brought to Europe, do we find fault with it. because it is not neatly printed? If a chemist discovers a new element, is he pitied because it is not gold? If a botanist writes on germs, has he to defend himself, because he does not write on flowers? Why, it is simply because the Veda is so different from what it was expected to be, because it is not like the Psalms, not like Pindar, not like the Bhaga. vadgita, it is because it stands alone by itself, and reveals to us the earliest germs of religious thought. such as they really were; it is because it places before us a language, more primitive than any we knew before; it is because its poetry is what you may call savage, uncouth, rude, horrible, it is for that very reason that it was worth while to dig and dig till the old buried city was recovered, showing us what man was, what we were, before we had reached the level of David, the level of Homer, the level of Zoronster. showing us the very cradle of our thoughts, our words, and our deeds. I am not disappointed with the Veda, and I shall conclude my address with the last verses of the last hymn, which you have now in your hands, - verses which thousands of years ago may have been addressed to a similar meeting of Aryan fellow-men, and which are not inappropriate to our own : -

Sám galábbadhvam sám vadadhvam sám vað mindæsi glundim, Devih bhligsim vithð pörve! samplningit upfaste, Saminsih mintrað saminið samini samknim minað sahd littám eshlm, Samnim mintram abbi mantraya vað saminina vað havishú gulomi. Saminim vað úkútið samini hrídayáni vað, Saminim astu vað minað váthð vað súsaha ásatí.

"Come together! Speak together! Let your minds be concordant—the gods by being concordant receive their share, one after the other. Their word is the same, their counsel is the same, their mind is the same, their thoughts are at one; I address to you the same word, I worship you with the same sacrifice. Let your endeaver be the same! Let your hearts be the same! Let your mind be the same, that it may go well with you."

I I read yath aparve as one word-

NOTES.

NOTE A.

In the "Indian Micror," published at Calcutta, 20 September, 1874, a native writer gave utterance almost at the same time to the same feelings;—

"When the dominion passed from the Mogul to the hands of Englishmen, the latter regarded the antives as little better than niggers, liaving a civilization perhaps a shade better than that of the barbarians. . . . The gulf was wide between the conquerors and the conquered. . . . There was no affection to lesson the distance between the two races. . . . The discovery of Sanskrit entirely revolutionized the course of thought and speculations. It served as the 'open sesame' to many hidden treasures. It was then that the position of India in the scale of civilization was distinctly apprehended. It was then that our relations with the advanced nations of the world were fully realized. We were niggers at one time. We now become brethren. . . . The advent of the English found us a nation low sunk in the mire of superstitions, ignorance, and political servitude. The advent of scholars like Sir William Jones found us fully established in a rank above that of every nation as that from which modern civilization could be distinctly traced. It would be interesting to contemplate what would have been our position if the science of philology had not been discovered . . . It was only when the labor of scholars brought to light the treasures of our antiquity that they perceived how near we were to their races in almost all things that they held dear in their life. It was then that our claims on their affection and regard were first established. As Hindus we ought never to forget the labor of scholars. We owe them our life as a nation, our freedom as a recognized society, and our position in the scale of races. It is the fashion with many to decry the labors of those men as dry, unprofitable, and

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dresmy. We should know that it is to the study of the rects and inflections of the Sanskrit language that we one our national salvation. . . . Within a very few years after the discovery of Sanskrit, a revolution took piace in the history of comparative science. Never were so many discoveries made at once, and from the speculations of learned scholars like —, the dawnings of many truths are even now visible to the world. . . . Comparative mythology and comparative religion are new terms altogether in the world. . . . We say again that India has no reason to forget the services of scholars."

NOTE B.

Tire following letter addressed by me to the "Academy," October 17, 1874, p. 423, gives the reasons for this statement: —

"I was aware of the mission of the four young Brahmans sent to Benares in 1845, to copy out and study the four Vedas respectively. I had read of it last in the 'Historical Sketch of the Brahmo Samaj, which Miss Collet had the kindness to send me. But what I said in my address before the Oriental Congress referred to earlier times. That mission in 1845 was, in fact, the last result of much previous discussion, which gradually weakened and destroyed in the mind of Ram Mohun Roy and his followers their traditional faith in the Divine origin of the Vedus. At first Ram Mohun Roy met the arguments of his English friends by simply saying, 'II you claim a Divine origin for your sacred books, so do we; and when he was pressed by the argument derived from internal evidence, he appealed to a few hymns, such as the Gayatri, and to the Upanishada, as by no means inferior to passages in the Bible, and not unworthy of a divine author. The Veda with him was chiefly in the Upanishads, and he had hardly any knowledge of the hymns of the Rig-Voda. I state this on the authority of a conversation that passed between him and young Rosen, who was then working at the MSS, of the Rig-Veda-Sanhita in the British Museum, and to whom Ram Mohun Roy expressed his regret at not being able to read his own sacred books.

Mohun Roy's death in 1833, a knowledge of the studies of Enrope an acholars may have reached the still hesitating reformers NOTES, 857

of the Brahma Sabha. Dvarka Nath Tagore paid a visit to Europe in the year 1845. I write from memory. Though not a man of deep religious feelings, he was an enlightened and shrowd observer of all that passed before his eyes. He was not a Sanskrit scholar; and I well recollect, when we puld a visit together to Eugène Burnouf, Dvarka Nath Tagore putting his dark delicate hand on one side of Burnouf's edition of the Bhacavat Purana,' containing the French translation, and saving he could understand that, but not the Sanskrit original on the opposite page. I saw him frequently at Paris, where I was then engaged in collecting materials for a complete edition of the Vedas and the commentary of Savanhlarya. Many a morning did I pass in his rooms, smoking, accompanying him on the pianoforts, and discouning questions in which we took a common interest. I remember one murning, after he had been singing some Italian, French, and German music, I asked him to sing an Indian song. He declined at first, saying that he knew I should not like it; but at last he visided, and sang, not one of the modern Persian songs, which commonly go by the name of Indian, but a genuine native piece of music. I listened quietly, but when it was over, I told him that it seemed strange to me, how one who could appreciate Italian and German music could find any pleasure in what sounded to me like mere noise, without melody, rhythm, or harmony. 'Oh,' he said, 'that is exactly like you Europeans' When I first heard your Italian and German music I disliked it; it was no music to me at all. But I persevered, I became acenstomed to it, I found out what was good in it, and now I am able to enjoy it. But you despite whatever is strange to you, whether in music, or philosophy, or religion; you will not listen and learn, and we shall understand you much sooner than you will understand us."

"In our conversations on the Vedas he never, as far as I recollect, defended the divine origin of his own sacred writings in the abstract, but he displayed great ensuistic eleverness in maintaining that every argument that had ever been adduced in support of a supernatural origin of the Bible could be used with equal force in favor of a divine authorship of the Veda. Ills own ideas of the Veda were chiefly derived from the Upanishads, and he frequently assured me that there was much more of Vedic literature in India than we imagined. This Dvarka Náth Tagore was the father of Debendra Náth Tagore, the true founder of

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the Brahmo Samaj, who, in 1845, sent the four young Brahmans to Benares to copy out and study the four Veilas. Though Dwarka Néth Tagore was so far orthodox that he maintained a number of Brahmans, yet it was he also who continued the grant for the support of the Church, founded at Calcutta by Ram Mohan Roy. One letter written by Dwarka Néth Tagore from Paris to Calcutta in 1845, would supply the missing link between what was passing at that time in a room of a hotel on the Place Vendôme, and the resolution taken at Calcutta to dud out, once

for all, what the Vedus really are.

"In India itself the idea of a critical and historical study of the Veda originated certainly with English scholars. Dr. Mill once showed me the first attempt at printing the sacred Gayarri in Calcutta; and, if I am not mistaken, he added that unfortunately the gentleman who had printed it died soon after, thus confirming the prophecies of the Brahmans that such a sacrilege would not remain unavenged by the gods. Dr. Mill, Stevenson, Wilson, and others were the first to show to the educated natives in India that the Upanishads belonged to a later age than the hymns of the Rig-Veda, and likewise the first to exhibit to Ram Mohan Roy and his friends the real character of these ancient rymns. On a mind like Ram Mohun Roy's the effect was probably much more immediate than on his followers, so that it took several years before they decided on sending their commissioners to Benares to report on the Veda and its real character. Yet that mission was, I believe, the result of a slow process of attrition produced by the contact between native and European minds, and as such I wished to present it in my address at the Oriental Congress."

VIII.

LIFE OF COLEBROOKE.

THE name and fame of Henry Thomas Colebrooke are better known in India, France, Germany, Italy -nay, even in Russia - than in his own country. He was born in London on the 15th of June, 1765; he died in London on the 10th of March, 1837; and if now, after waiting for thirty-six years, his only surviving son, Sir Edward Colebrooke, has at last given us a more complete account of his father's life, the impulse has come chiefly from Colebrooke's admirers abroad, who wished to know what the man had been whose works they know so well. If Colebrooke had simply been a distinguished, even a highly distinguished, servant of the East India Company, we could well understand that, where the historian has so many eminent services to record, those of Henry Thomas Colebrooke should have been allowed to pass almost unnoticed. The history of British India has still to be written, and it will be no easy task to write it. Macaulay's "Lives" of Clive and Warren Hastings are but two specimens to show how it ought to be, and yet how it cannot be, writ-There is in the annals of the conquest and administrative tenure of India so much of the bold generalship of raw recruits, the statesmanship of com-

^{*} Misselfancous Essays. By Harry Thomas Colchrooks. With a Lafe of the author by his son. In three volumes. London: 1872.

mon clerks, and the heroic devotion of mere adventurers, that even the largest canvas of the historian must dwarf the stature of heroes; and characters which, in the history of Greece or England, would stand out in bold relief, must vanish unnoticed in the growd. The substance of the present memoir appeared in the "Journal" of the Royal Asiatic Society soon after Mr. Colebrooke's death. It consisted originally of a brief notice of his public and literary career, interspersed with extracts from his letters to his family during the first twenty years of residence in India. Being asked a few years since to allow this notice to appear in a new edition of his "Miscellancons Essays," which Mr. Fitz-Edward Hall desired to republish, Sir Edward thought it incumbent on him to render it more worthy of his father's reputation. The letters in the present volume are, for the most part, given in full; and some additional correspondence is included in it, besides a few papers of literary interest, and a journal kept by him during his residence at Nagpur, which was left incomplete. Two addresses delivered to the Royal Asiatic and Astronomical Societies, and the narrative of a journey to and from the capital of Berar, are given in an appendix and complete the volume, which is now on the eve of publication.

Although, as we shall see, the career of Mr. Colebrooke, as a servant of the East India Company, was highly distinguished, and in its vicissitudes, as here told by his son, both interesting and instructive, yet his most lasting fame will not be that of the able administrator, the learned lawyer, the thoughtful financier and politician, but that of the founder and father of true Sanskrit scholarship in Europe. In

that character Colebrooke has secured his place in the history of the world, a place which neither envy nor ignorance can ever take from him. Had he lived in Germany, we should long ago have seen his statue in his native place, his name written in letters of gold on the walls of academies; we should have heard of Colebrooke jubilees and Colebrooke scholarshins. In England, if any notice is taken of the discovery of Sanskrit - a discovery in many respects equally important, in some even more important, than the revival of Greek scholarship in the fifteenth century-we may possibly hear the popular name of Sir William Jones and his classical translation of Sakuntala; but of the infinitely more important achievements of Colebrooke, not one word. The fact is, the time has not yet come when the full importance of the Sanskrit philology can be appreciated by the public at large. It was the same with Greek philology. When Greek began to be studied by some of the leading spirits in Europe, the subject seemed at first one of purely literary cariosity. When its claims were pressed on the public, they were met by opposition, and even ridicale; and those who knew least of Greek were most eloquent in their deminciations. Even when its study had become more general, and been introduced at universities and schools, it remained in the eyes of many a mere accomplishment - its true value for higher than scholastic purposes being scarcely suspected. At present we know that the revival of Greek scholarship affected the deepest interests of humanity, that it was in reality a revival of that consciousness which links large portions of mankind together, connects the living with the dead, and thus secures to each

generation the full intellectual inheritance of our race. Without that historical consciousness the life of man would be ephemeral and valu. The more we can see backward, and place ourselves in real sympathy with the past, the more truly do we make the life of former generations our own, and are able to fulfill our own appointed duty in carrying on the work which was begun centuries ago in Athens and at Rome. But while the unbroken traditions of the Roman world, and the revival of Greek culture among us, restored to us the intellectual patrimony of Greece and Rome only, and made the Tentonic race in a certain sense Greek and Roman, the discovery of Sanskrit will have a much larger influence. Like a new intellectual spring, it is meant to revive the broken fibres that once united the Southeastern with the Northwestern branches of the Aryan family; and thus to reestablish the spiritual brotherhood, not only of the Teutonic, Greek, and Roman, but likewise of the Slavonic, Celtic, Indian, and Persian branches. It is to make the mind of man wider, his heart larger, his sympathies world-embracing; it is to make us truly humaniores, richer and prouder in the full perception of what humanity has been, and what it is meant to be. This is the real object of the more comprehensive studies of the nineteenth century, and though the full appreciation of this their true import may be reserved to the future, no one who follows the intellectual progress of mankind attentively can fail to see that, even now, the comparative study of languages, mythologies, and religions has widened our horizon; that much which was lost has been regained; and that a new world, if it has not yet been occupied, is certainly in sight. It

is curious to observe that those to whom we chiefly owe the discovery of Sanskrit were as little conscious of the real importance of their discovery as Columbus was when he landed at St. Salvador. What Mr. Colabrooke did, was done from a sense of duty, rather than from literary curiosity; but there was also a tinge of enthusiasm in his character, like that which carries a traveller to the wastes of Africa or the icebound regions of the Pole. Whenever there was work ready for him, he was ready for the work. But he had no theories to substantiate, no preconceived objects to attain. Sobriety and thoroughness are the distinguishing features of all his works. There is in them no trace of haste or carelessness; but neither is there evidence of any extraordinary effort, or minute professional scholarship. In the same business-like spirit in which he collected the revenue of his province he collected his knowledge of Sanskrit literature; with the same judicial impartiality with which he delivered his judgments he delivered the results at which he had arrived after his extensive and careful reading; and with the same sense of confidence with which he quietly waited for the effects of his political and financial measures, in spite of the apathy or the opposition with which they met at first, he left his written works to the judgment of posterity, never wasting his time in the repeated assertion of his opinions, or in useless controversy, though he was by no means insensible to his own literary reputation. The biography of such a man deserves a careful study; and we think that Sir Edward Colebrooke has fulfilled more than a purely fillial duty in giving to the world a full account of the private, public, and literary life of his great father.

Colebrooke was the son of a wealthy London banker, Sir George Colebrooke, a Member of Parliament, and a man in his time of some political importance. Having proved himself a successful advocate of the old privileges of the East India Company, he was invited to join the Court of Directors, and became in 1769 chairman of the Company. His chairmanship was distinguished in history by the appointment of Warren Hastings to the highest office in India, and there are in existence letters from that illustrious man to Sir George, written in the crisis of his Indian Administration, which show the intimate and confidential relations subsisting between them. But when, in later years, Sir George Colebrooke became involved in pecuniary difficulties, and Indian appointments were successively obtained for his two sons, James Edward and Henry Thomas, it does not appear that Warren Hastings took any active steps to advance them, beyond appointing the elder brother to an office of some importance on his secretariat. Henry, the younger brother, had been educated at home, and at the agu of fifteen he had laid a solid foundation in Latin, Greek, French, and particularly in mathematics. As he never seems to have been urged on, he learned what he learned quietly and thoroughly, trying from the first to satisfy himself rather than others. Thus a love of knowledge for its own sake remained firmly engrained in his mind through life, and explains much of what would otherwise remain inexplicable in his literary career.

At the age of eighteen he started for India, and arrived at Madras in 1788, having narrowly escaped capture by French cruisers. The times were anxious times for India, and full of interest to an observer of political events. In his very first letter from India Colebrooke thus sketches the political situation: —

"The state of affairs in India seems to bear a far more favorable aspect than for a long time past. The peace with the Mahrattas and the death of Hyder Ally, the intended invasion of Tippoo's country by the Mahrattas, sufficiently removed all alarm from the country powers; but there are likewise accounts arrived, and which seem to be credited, of the defeat of Tippoo by Colonel Matthews, who commands on the other coast."

From Madras Colebrooke proceeded, in 1783, to Calentin, where he met his elder brother, already established in the service. His own start in official life was delayed, and took place under circumstances by no means suspicious. The tone, both in political and private life, was at that time at its lowest ebb in In-Drinking, gambling, and extravagance of all kinds were tolerated even in the best society, and Colebrooke could not entirely escape the evil effects of the moral atmosphere in which he had to live. It is all the more remarkable that his taste for work never deserted him, and "that he would retire to his midnight Sanskrit studies unaffected by the excitement of the gambling-table." It was not till 1786a year after Warren Hastings had left India - that he received his first official appointment, as Assistant Collector of Revenue in Tirlint. His father seems to have advised him from the first to be assidned in acquiring the vernacular languages, and we find him at an early period of his Indian career thus writing on this subject: "The one, and that the most necessary, Moors (now called Hindustani), by not being written, bars all close application; the other, Persian, is too dry to entice, and is so seldom of any use, that I seek its acquisition very leisurely." He asked his father

in turn to send him the Greek and Latin classics, evidently intending to carry on his old favorite studies, rather than begin a new career as an Oriental scholar. For a time he seemed, indeed, deeply disappointed with his life in India, and his prospects were anything but encouraging. But although he seriously thought of throwing up his position and returning to England, he was busy nevertheless in elaborating a scheme for the better regulation of the Indian service. His chief idea was, that the three functions of the civil service -the commercial, the revenue, and the diplomaticshould be separated; that each branch should be premided over by an independent board, and that those who had qualified themselves for one branch should not be transferred to another. Cariously enough, he lived to prove by his own example the applicability of the old system, being himself transferred from the revenue department to a judgeship, then employed on an important diplomatic mission, and lastly raised to a seat in Council, and acquitting himself well in each of these different employments. After a time his discontent seems to have vanished. He quietly settled down to his work in collecting the revenue of Tirhut; and his official duties soon became so absorbing, that he found little time for projecting reforms of the Indian Civil Service,

Soon also his Oriental studies gave him a new interest in the country and the people. The first allusions to Oriental literature occur in a letter dated Patna, December 10, 1786. It is addressed to his father, who had desired some information concerning the religion of the Hindus. Colebrooke's own interest in Sanskrit literature was from the first scientific rather than literary. His love of mathematics and

astronomy made him auxious to find out what the Brahmans had achieved in these branches of knowledge. It is surprising to see how correct is the first communication which he sends to his father on the four modes of reckoning time adopted by Hindu astronomers, and which he seems chiefly to have drawn from Persian sources. The passage (pp. 23-26) is too long to be given here, but we recommend it to the careful attention of Sanskrit scholars, who will find it more accurate than what has but lately been written on the same subject. Colebrooke treated, again, of the different measures of time in his essay "On Indian Weights and Measures," published in the "Asiatic Researches," 1798; and in stating the rule for finding the planets which preside over the day, called Hord, he was the first to point out the coincidence between that expression and our name for the twentyfourth part of the day. In one of the notes to his Dissertation on the Algebra of the Hindus he showed that this and other astrological terms were evidently borrowed by the Hindus from the Greeks, or other external sources; and in a manuscript note published for the first time by Sir E. Colebrooke, we find him following up the same subject, and calling attention to the fact that the word Hord occurs in the Sanskrit vocabulary - the Medini-Kosha, and bears there, among other significations, that of the rising of a sign of the zodine, or half a sign. This, as he remarks, is in diurnal motion one hour, thus confirming the connection between the Indian and European significations of the word.

While he thus felt attracted towards the study of Oriental literature by his own scientific interests, it seems that Sanskrit literature and poetry by them-

seives had no charms for him. On the contrary, has declares himself repelled by the false taste of Oriental writers; and he speaks very slightingly of "the amateurs who do not seek the acquisition of useful knowledge, but would only wish to attract notice, without the labor of deserving it, which is readily accomplished by an ode from the Persian, an apologue from the Sanskrit, or a song from some unheard-of dialect of Hinduee, of which amateur favors the public with a free translation, without understanding the original, as you will immediately be convinced, if you peruse that repository of nonsense, the Asiatic Miscellany." He makes one exception, however, in favor of Wilkins. "I have never yet seen any book," he writes, " which can be depended on for information concerning the real opinions of the Hindus, except Wilkins's 'Bhagvat Geeta.' That gentleman was Sanskrit mad, and has more materials and more general knowledge respecting the Hindus than any other foreigner ever acquired since the days of Pythagoras." Arabic, too, did not then find much more favor in his eyes than Sanskrit. "Thus much," he writes, "I am induced to believe, that the Arabic language is of more difficult acquisition than Latin, or even than Greek; and, although it may be concise and nervous, it will not reward the labor of the student, since, in the works of science, he can find nothing new, and, in those of literature, he could not avoid feeling his judgment offended by the false taste in which they are written, and his imagination being heated by the glow of their imagery. A few dry facts might, however, reward the literary drudge. "

It may be doubted, indeed, whether Colebrooke would ever have overcome these prejudices, had it

not been for his father's exherintions. In 1789, Colebrooke was transferred from Tirbut to Purneal; and such was his interest in his new and more responsible office, that, according to his own expression, he felt for it all the solicitude of a young author. Engrossed in his work, a ten years' settlement of some of the districts of his new collectorship, he writes to his father in July, 1790:-

"The religion, manners, natural history, traditions, and area of this country may, certainly, farnish subjects on which my communications might, perhaps, be not uninteresting; but to offer anything deserving of attention would require a season of leisure to collect and digest information. Engaged in public and busy scenes, my mind is wholly engrossed by the gares and duties of my station; in vain I seek, for relaxation's sake, to direct my thoughts to other subjects; matters of business constantly recur. It is for this cause that I have occasionally apologized for a dearth of subjects, having no occurrences to relate, and the matters which occupy my attention being unintoresting as a subject of correspondence,"

When, after a time, the hope of distinguishing himself impelled Colebrooke to new exertions, and he determined to become an author, the subject which he chose was not antiquarian or philosophical, but purely practical.

"Translations," he writes, in 1790, "are for those who rather need to fill their purses than gratify their ambition. For original compositions on Oriental history and sciences is required more reading in the literature of the East than I possess or am likely to attain. My subject should be econocted with those matters to which my attention is professionally led. One subject is, I believe, yet autouched - the agriculture of Bengal. On this I have been curious of information; and, having obtained some, I am now pursuing impairies with some degree of regularity. I wish for your opinion, whether it would be worth while to reduce into form the information which may be ob-91

tained on a subject measurably dry, and which (curious, perhaps) is, certainly, uncless to English readers."

Among the subjects of which he wishes to treat in this work we find some of antiquarian interest, e. g., what castes of Hindus are altogether forbid cultivating, and what castes have religious prejudices against the culture of particular articles. Others are purely technical; for instance, the question of the succession and mixture of crops. He states that the Hindus have some traditional maxims on the succession of crops to which they rigidly adhere; and with regard to mixture, he observes that two, three, or even four different articles are sown in the same field, and gathered successively, as they ripen; that they are sometimes all sown on the same day, sometimes at different periods, etc.

His letters now became more and more interesting. and they generally contain some fragments which show us how the sphere of his inquiries became more and more extended. We find (p. 39) observations on the Psylli of Egypt and the snake-charmers of India, on the Sikha (p. 45), on human sacrifices in India (p. 46). The spirit of inquiry which had been kindled by Sir W. Jones, more particularly since the foundation of the Asiatic Society of Bengal in 1784, had evidently reached Colebrooke. It is difficult to fix the exact date when he began the study of Sanskrit. He seems to have taken it up and left it again in despair several times. In 1798 he was removed from Purneal to Nattore. From that place he sent to his father the first volumes of the "Asiatic Researches," published by the members of the Asiatic Society. He drew his father's attention to some articles in them, which would seem to prove that the

ancient Hindus possessed a knowledge of Egypt and of the Jews, but he adds: "No historical light can be expected from Sanskrit literature; but it may, nevertheless, be curious, if not useful, to publish such of their legends as seem to resamble others known to European mythology." The first glimmering of comparative mythology in 1793 I

Again he writes in 1793, "In my Sanskrit studies, I do not confine myself now to particular subjects, but skim the surface of all their sciences. I will subjoin, for your amusement, some remarks on subjects

treated in the 'Researches.'"

What the results of that skimming were, and how far more philosophical his appreciation of Hindu literature had then become, may be seen from the end of the same letter, written from Rajshahi, December, 6, 1793:—

"Upon the whole, whatever may be the true antiquity of this nation, whether their mythology be a corruption of the pure delan we find in their books, or their delan a refinement from gross idolatry; whether their religious and moral precepts have been augrated on the elegant philosophy of the Nyava and Miminsh or this philosophy been refined on the plainer text of the Veda; the Hindu is the most ancient nation of which we have valuable remains, and has been surpassed by none in refinement and civilization; though the utmost pitch of refinement to which it ever arrived preceded, in time, the dawn of civilization in any other nation of which we have even the name in history. The further our literary inquiries are extended here, the more vast and suspendous is the scene which opens to us; at the same time that the true and false, the sublime and the puerile, wisdom and absurdity, are so intermixed, that, at every step, we have to smile at folly, while we admire and acknowledge the philosophical truth, though couched in obscure allegory and onerile fable.

In 1794, Colebrooke presented to the Asiatic So-

ciety his first paper, "On the Duties of a Faithful Hindu Widow," and he told his father at the same time, that he meant to pursue his Sanskrit inquiries diligently, and in a spirit which seems to have guided all his work through life: "The only caution," he says, "which occurs to me is, not to hazard in publication anything crude or imperfect, which would injure my reputation as a man of letters; to avoid this, the precaution may be taken of submitting my

manuscripts to private perusal."

Colebrooks might indeed from that time have become altogether devoted to the study of Sanskrit, had not his political feelings been strongly roused by the new Charter of the East India Company, which, instead of sanctioning reforms long demanded by political economists, confirmed nearly all the old privileges of their trade. Colebrooke was a free-trader by conviction, and because he had at heart the interests both of India and of England. It is quite gratifying to find a man, generally so cold and prudent as Colebrooke, warm with indignation at the folly and injustice of the policy carried out by England with regard to her Indian subjects. He knew very well that it was personally dangerous for a covenanted servant to discuss and attack the privileges of the Company, but he felt that he ought to think and act, not merely as the servant of a commercial company, but as the servant of the British Government, He wished, even at that early time, that India should become an integral portion of the British Empire, and cense to be, as soon as possible, a mere appendage, yielding a large commercial revenue. He was encouraged in these views by Mr. Anthony Lambert, and the two friends at last decided to embody their

views in a work, which they privately printed, under the title of " Remarks on the Present State of the Hasbandry and Commerce of Bengal," Colebrooke, as we know, had paid considerable attention to the subject of husbandry, and he now contributed much of the material which he had collected for a purely didactic work, to this controversial and political treatise. He is likewise responsible, and he never tried to shirk that responsibility, for most of the advanced financial theories which it contains. The volume was sent to England, and submitted to the Prime Minister of the day and several other persons of influence. It seems to have produced an impression in the quarters most concerned, but it was considered prudent to stop its further circulation on account of the dangerons free-trade principles, which it supported with powerful arguments. Colebrooke had left the discretion of publishing the work in England to his friends, and he cheerfully submitted to their decision. He himself, however, never ceased to advocate the most liberal financial opinions, and being considered by those in power in Leadenhall Street as a dangerous young man, his advancement in India became slower than it would otherwise have been.

A man of Colebrooke's power, however, was too useful to the Indian Government to be passed over altogether, and though his career was neither rapid nor brilliant, it was nevertheless most successful. Just at the time when Sir W. Jones had died suddenly, Colebrooke was removed from the revenue to the judicial branch of the Indian service, and there was no man in India, except Colebrooke, who could carry on the work which Sir W. Jones had left unfinished, viz.: "The Digest of Hindu and Moham-

medan Laws." At the instance of Warren Hastings, a clause had been inserted in the Act of 1772, providing that "Maulavies and Pundits should attend the Courts, to expound the law and assist in passing the decrees." In all suits regarding inheritance, marriage, caste, and religious usages and institutions, the ancient laws of the Hindus were to be followed. and for that purpose a body of laws from their own books had to be compiled. Under the direction of Warren Hastings, nine Brahmans had been commissioned to draw up a code, which appeared in 1776, under the title of "Code of Gentoo Laws." 1 It had been originally compiled in Sanskrit, then translated into Persian, and from that into English. As that code, however, was very imperfect, Sir W. Jones had urged on the Government the necessity of a more complete and authentic compilation. Texts were to be collected, after the model of Justinian's Pandeets. from law-books of approved authority, and to be digested according to a scientific analysis, with references to original authors. The task of arranging the text-books and compiling the new code fell chiefly to a learned Pandit, Jagannatha, and the task of translating it was now, after the death of Sir W. Jones, undertaken by Colebrooke. This task was no easy one, and could hardly be carried out without the help of really learned pandits. Fortunately Colebrooks was removed at the time when he undertook this work, to Mirzapur, close to Benares, the seat of Brahmanical learning, in the north of India, and the seat of a Hindu College. Here Colebrooke found not

The word Genties, which was commonly applied in the last century to the Hinder, is, according to Wilson, derived from the Portuguese word pentic, gentile or heathen. The word course, too, comes from the came source.

only rich collections of Sanskrit MSS, but likewise a number of law pandits, who could solve many of the difficulties which he had to encounter in the translation of Jagannatha's Digest. After two years of incessant labor, we find Colebrooke on January 3, 1797, announcing the completion of his task, which at once established his position as the best Sanskrit scholar of the day. Oriental studies were at that time in the ascendant in India. A dictionary was being compiled, and several grammars were in prepparation. Types also had been cut, and for the first time Sanskrit texts issued from the press in Devanagarf letters. Native scholars, too, began to feel a pride in the revival of their ancient literature. The Brahmans, as Colebrooke writes, were by no means averse to instruct strangers; they did not even conceal from him the most sacred texts of the Veda. Colebrooke's "Essays on the Religious Ceremonies of the Hindus," which appeared in the fifth volume of the "Asiatic Researches" in the same year as his translation of the "Digest," show very clearly that he had found excellent instructors, and had been initiated in the most sacred literature of the Brahmans. An important paper on the Hindu schools of law seems to date from the same period, and shows a familiarity, not only with the legal authorities of India, but with the whole structure of the traditional and sacred literature of the Brahmans, which but few Sanskrit scholars could lay claim to even at the present day. In the fifth volume of the "Asiatie Researches" appeared also his essay "On Indian Weights and Measures," and his "Enumeration of Indian Classes." A short, but thoughtful memorandum on the origin of easte, written during that period, and

printed for the first time in his "Life," will be read with interest by all who are acquainted with the different views of living scholars on this important

subject.

Colebrooke's idea was that the institution of casto was not artifical or conventional, but that it began with the simple division of freemen and slaves, which we find among all ancient nations. This division, as he supposes, existed among the Hindus before they settled in India. It became positive law after their emigration from the northern mountains into India, and was there adapted to the new state of the Hindus, settled among the aborigines. The class of slaves or Sudras consisted of those who came into India in that degraded state, and those of the aborigines who submitted and were spared, Menial offices and mechanical labor were deemed unworthy of freemen in other countries besides India, and it cannot therefore appear strange that the class of the Südras comprehended in India both servants and mechanics, both Hindus and emancipated aborigines. The class of freemen included originally the priest, the soldier, the merchant, and the husbandman. It was divided into three orders, the Brahmanns, Kahatriyas, and Vaisyas, the last comprehending merchants and husbandmen indiscriminately, being the yeomen of the country and the citizens of the town. According to Colebrooke's opinion, the Kshatriyas consisted originally of kings and their descendants. It was the order of princes, rather than of mere soldiers. The Brahmanas comprehended no more than the descendants of a few religious men who, by superior knowledge and the austerity of their lives, had gained an ascendency over the

people. Neither of these orders was originally very numerous, and their prominence gave no offense to the far more powerful body of the citizens and

yeomen.

When legislators began to give their sanction to this social system, their chief object seems to have been to guard against too great a confusion of the four orders-the two orders of nobility, the sacerdotal and the princely, and the two orders of the people, the citizens and the slaves, by either prohibiting intermarriage, or by degrading the offspring of alliances between members of different orders. If men of superior married women of inferior, but next adjoining, rank, the offspring of their marriage sank to the rank of their mothers, or obtained a position intermediate between the two. The children of such marriages were distinguished by separate titles. Thus, the son of a Brahmana by a Kahatriya woman was, called Murdhabhishikta, which implies royalty. They formed a distinct tribe of princes or military nobility, and were by some reckoned superior to the Kshatriya. The son of a Brahmana by a Vaisya woman was a Vaidya or Ambashtha; the offspring of a Kahatriya by a Vaisya was a Mahishya, forming two tribes of respectable citizens. But if a greater disproportion of rank existed between the parents - if, for instance, a Brahmana married a Sudra, the offspring of their marriage, the Nishada, suffered greater social penalties; he became impure, notwithstanding the nobility of his father. Marriages, again, between women of superior with men of inferior rank were considered more objectionable than marriages of men of superior with women of inferior rank, a sentiment which continnes to the present day.

What is peculiar to the social system, as sanctioned by Hindu legislators, and gives it its artificial character, is their attempt to provide by minute regulations for the rank to be assigned to new tribes, and to point out professions suitable to that rank. The tribes had each an internal government, and professions naturally formed themselves into companies. From this source, while the corporations imitated the regulations of tribes, a multitude of new and arbitrary tribes sprang up, the origin of which, as assigned by Manu and other legislators, was probably, as Colebrooke admits, more or less fanciful.

In his "Remarks on the Husbandry and Internal Commerce of Bengal," the subject of caste in its bearing on the social improvement of the Indian nation was likewise treated by Colebrooke. In reply to the erroneous views then prevalent as to the supposed barriers which easte placed against the free development of the Hindus, he writes:—

"An erroneous doctrine has been started, as if the great population of these provinces could not avail to effect improvements, notwithstanding opportunities afforded by an increased demand for particular manufactures or for raw produce; because, 'professions are hereditary among the Hindus; the offspring of men of one calling do not intrude into any other; professions are confined to hereditary descent; and the produce of any particular manufacture cannot be extended according to the increase of the demand, but must depend upon the population of the caste, or tribe, which works on that manufacture; or, is other words, if the demand for any article should exceed the ability of the number of workmen who produce it, the deficiency cannot be supplied by calling in assistance from other tribes."

"In opposition to this unfounded opinion, it is necessary that we not only show, as has been already done, that the population is actually sufficient for great improvement, but we must also prove, that professions are not separated by an impassable line, and that the population affords a sufficient number whom religious prejudices permit, and whose inclination leads them to sugage in, those occupations through which the desired improvement may be effected.

" The Muselmans, to whom the argument above quoted cannot in any manner be applied, bear no inconsiderable proportion to the whole population. Other descriptions of people, not governed by Hindu institutions, are found among the inhabitumes of these provinces; in regard to these, also, the objection is irrelevant, The Hindus themselves, to whom the doctring which we combat is meant to be applied, cannot exceed nine teaths of the population; probably, they do not bear so great a proportion to the other tribes. They are, as is well known, divided into four grand classes; but the three first of them are much less numerone than the Sudra. The aggregate of Brahmana, Kahatriya, and Vaisya may amount, at the most, to a fifth of the population; and even these are not absolutely restricted to their own appointed occupations. Commerce and agriculture are universally permitted; and, under the designation of servants of the other three tribes, the Sudrasseem to be allowed to prosecute any manufacture.

"In this tribe are included not only the true Sûdras, but also the several eastes whose origin is ascribed to the promiserous intercourse of the four classes. To these, also, their several occupations were assigned; but neither are they restricted, by rigorous injunctions, to their own appointed occupations. For any person mable to produce a subsistence by the exercise of his own profession may earn a livelihood in the calling of a subwidinate caste, within certain limits in the scale of relative precedence assigned to each; and no forfeiture is now incurred by his intruding into a superior profession. It was, indeed, the duty of the Hindu magistrate to restrain the encroschments of interior tribes on the occupations of superior eastes; but, under a foreign government, this restraint has no existence.

In practice, little attention is paid to the limitations to which we have here alluded: daily observation shows even Brahmanus exercising the mental profession of a Sadra. We are aware that every caste forms itself into clabs, or Indges, consisting of the everal individuals of that caste residing within a small distance; and that these clubs, or lodges, govern themselves by particular rules and customs, or by laws. But, though some restrictions and limitations, not founded on religious prejudices,

are found among their by-laws, it may be received, as a general maxim, that the occupation appointed for each tribe is entitled merely to a preference. Every profession, with few exceptions, is open to every description of persons; and the discouragement arising from religious prejudices is not greater than what exists in Great Britain from the effects of municipal and corporation laws. In Bengal, the numbers of people actually willing to apply to any particular occupation are sufficient for the unlimited extension of any manufacture.

"If these facts and observations be not considered as a conclusive relatation of the unfounded assertion made on this subject, we must appeal to the experience of every gentleman who may have resided in the provinces of Bengal, whether a change of occupation and profession does not frequently and indefinitely occur? Whether Brahmanas are not employed in the most servite offices? And whether the Sadra is not seen elevated to sitnations of respectability and importance? In short, whether the assertion above quoted be not altogether destitute of foundation?"

It is much to be regretted that studies so anspiciously begun were suddenly interrupted by a diplomatic mission, which called Colebrooke away from Mirzapur, and retained him from 1798 to 1801 at Nagpur, the capital of Berar. Colebrooke himself had by this time discovered that, however distinguished his public career might be, his lasting fame must depend on his Sanskrit studies. We find him even at Nagpur continuing his literary work, particularly the compilation and translation of a Supplementary Digest. He also prepared, as far as this was possible in the midst of diplomatic avocations, some of his most important contributions to the "Asiatic Researches," one on Sanskrit prosody, which did not appear till 1808, and was then styled an essay on Sanskrit and Prakrit poetry; one on the Vedas, another on Indian Theogonies (not published), and a critical treatise on Indian plants. At last, in May, 1801, he left Nagpur to

return to his post at Mirzapur. Shortly afterwards he was summoned to Calcutta, and appointed a member of the newly constituted Court of Appeal. He at the same time accepted the honorary post of Professor of Sanskrit at the college recently established at Fort William, without, however, taking an active part in the teaching of pupils. He seems to have been a director of studies rather than an actual professor, but he rendered valuable service as examiner in Sanskrit, Bengali, Hindustani, and Persian, In 1801 appeared his essay on the Sanskrit and Prakrit languages, which shows how well he had qualified himself to act as professor of Sanskrit, and how well, in addition to the legal and sacred literature of the Brahmans, he had mastered the belles lettres of India also, which at first, as we saw, had rather repelled him by their extravagance and want of taste.

And here we have to take note of a fact which has never been mentioned in the history of the science of language, viz., that Colebrooke at that early time devoted considerable attention to the study of Comparative Philology. To judge from his papers, which have never been published, but which are still in the possession of Sir E. Colebrooke, the range of his comparisons was very wide, and embraced not only Sauskrit, Greek, and Latin, with their derivatives, but

also the Germanic and Slavonic languages.1

The principal work, however, of this period of his life was his Sanskrit Grammar. Though it was never finished, it will always keep its place, like a classical torso, more admired in its unfinished state than other works which stand by its side, finished, yet less perfect. Sir E. Colebrooke has endeavored to convey to

I See the list of words given at the end of this article, p. 400.

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the general reader some idea of the difficulties which had to be overcome by those who, for the first time, approached the study of the native grammarians, particularly of Pâzini. But this grammatical literature, the 3,996 grammatical satras or rules, which determine every possible form of the Sanskrit language in a manner unthought of by the grammarians of any other country, the glosses and commentaries, one piled upon the other, which are indispensable for a successful unraveling of Pânini's artful web, which start every objection, reasonable or unreasonable, that can be imagined, either against Pânini himself or against his interpreters, which establish general principles, register every exception, and defend all forms apparently anomalous of the ancient Vedic language; all this together is so completely sui generis, that those only who have themselves followed Colebrooke's footsteps can appreciate the boldness of the first adventurer, and the perseverance of the first explorer of that grammatical labyrinth. Colebrooke's own Grammar of the Sanskrit language, founded on works of mitive grammarians, has sometimes been accused of obscurity, nor can it be denied that for those who wish to acquire the elements of the language, it is almost useless. But those who know the materials which Colebrooke worked up in his grammar, will readily give him credit for what he has done in bringing the indigests moles which he found before him into something like order. He made the first step, and a very considerable step it was, in translating the strange phraseology of Sanskrit grammarians into something at least intelligible to European scholars. How it could have been imagined that their extraordinary grammatical phraseology was borrowed by the Hin-

dus from the Greeks, or that its formation was influenced by the grammatical schools established among the Greeks in Bactria, is difficult to understand, if one possesses but the slightest acquaintance with the character of either system, or with their respective. historical developments. It would be far more accurate to say that the Indian and Greek systems of grammar represent two opposite poles, exhibiting the two starting-points from which alone the grammar of a language can be attacked, viz., the theoretical and the empirical. Greek grammar begins with philosophy, and forces language into the categories established by logic. Indian grammar begins with a mere collection of facts, systematizes them mechanically, and thus leads in the end to a system which, though marvelous for its completeness and perfection, is nevertheless, from a higher point of view, a mere triumph of scholastic pedantry.

Colebrooke's grammar, even in its unfinished state, will always be the best introduction to a study of the native grammarians - a study indispensable to every sound Sanskrit scholar. In accuracy of statement it still holds the first place among European grammars, and it is only to be regretted that the references to Pâzini and other grammatical authorities, which existed in Colebrooke's manuscript, should have been left out when it came to be printed. The modern school of Sanskrit students has entirely reverted to Colebrooke's views on the importance of a study of the native grammarians. It is no longer considered sufficient to know the correct forms of Sanskrit declension or conjugation: if challenged, we must be prepared to substantiate their correctness by giving chapter and verse from Panini, the fountain-head of Indian grammar. If Sir E. Colebrooke says that "Bopp also drew deeply from the fountain-head of Indian grammar in his subsequent labors," he has been misinformed. Bopp may have changed his opinion that "the student might arrive at a critical knowledge of Sanskrit by an attentive study of Foster and Wilkins, without referring to native authorities;" but he himself never went beyond, nor is there any evidence in his published works that he himself tried to work his way through the intricacies of Pānini.

In addition to his grammatical studies, Colebrooke was engaged in several other subjects. He worked at the Supplement to the "Digest of Laws," which assumed very large proportions; he devoted some of his time to the deciphering of ancient inscriptions, in the hope of finding some fixed points in the history of India: he undertook to supply the Oriental synonymes for Roxburgh's "Flora Indica" - a most laborious task, requiring a knowledge of botany as well as an intimate acquaintance with Oriental languages. In 1804 and 1805, while preparing his classical essay on the Vedas for the press, we find him approaching the study of the religion of Buddha. In all these varied researches, it is most interesting to observe the difference between him and all the other contributors to the "Asiatic Researches" at that time. They were all carried away by theories or enthusiasm; they were all betrayed into assertions or conjectures which proved unfounded. Colebrooke alone, the most hard-working and most comprehensive student, never allows one word to escape his pen for which he ms not his authority; and when he speaks of the treatises of Sir W. Jones, Wilford, and others, he

readily admits that they contain curious matter, but as he expresses himself, "very little conviction." When speaking of his own work, as for instance, what he had written on the Vedas, he says: "I imagine my treatise on the Vedas will be thought curious; but, like the rest of my publications, little in-

toresting to the general reader."

In 1805, Colebrooke became President of the Court of Appeal - a high and, as it would seem, lucrative post, which made him unwilling to aspire to any other appointment. His leisure, though more limited than before, was devoted, as formerly, to his favorite studies; and in 1807 he accepted the presidency of the Asiatic Society - a post never before or after filled so worthily. He not only contributed himself several articles to the "Asiatic Researches," published by the Society, viz., "On the Sect of Jina," "On the Indian and Arabic Divisions of the Zodiack," and "On the Frankincense of the Ancients;" but he encouraged also many useful literary undertakings, and threw out, among other things, an idea which has but lately been carried out, viz., a Catalogue raisonné of all that is extant in Asiatic literature. His own studies became more and more concentrated on the most ancient literature of India, the Vedas, and the question of their real antiquity led him again to a more exhaustive examination of the astronomical literature of the Brahmans, In all these researches, which were necessarily of a somewhat conjectural character, Colebrooke was guided by his usual cantion. Instead of attempting, for instance, a free and more or less divinatory translation of the hymns of the Rig-Veda, he began with the tedious but inevitable work of exploring the native YOU IV.

commentaries. No one who has not seen his MSS., now preserved at the India Office, and the margina' notes with which the folios of Sayana's commentary are covered, can form any idea of the conscientiousness with which he collected the materials for his essay. He was by no means a blind follower of Savana, or a believer in the infallibility of traditional interpretation. The question on which so much useless ingenuity has since been expended, whether in translating the Veda we should be guided by native authorities or by the rules of critical scholarship, must have seemed to him, as to every sensible person, answered as soon as it was asked. He answered it by setting to work patiently, in order to find out, first, all that could be learnt from native scholars, and afterwards to form his own opinion. His experience as a practical man, his judicial frame of mind, his freedom from literary vanity, kept him, here as elsewhere, from falling into the pits of learned pedantry. It will seem almost incredible to later generations that German and English scholars should have wasted so much of their time in trying to prove, either that we should take no notice whatever of the traditional intrepretation of the Veda, or that, in following it, we should entirely surrender our right of private judgment. Yet that is the controversy which has occupied of late years some of our best Sanskritscholars, which has filled our journals with articles as full of learning as of acrimony, and has actually divided the students of the history of ancient religion into two hostile camps. Colebrooke knew that he had more useful work before him than to discuss the infallibility of fallible interpreters - a question handled with greater ingenuity by the Maimansaka

philosophers than by any living casuists. He wished to leave substantial work behind him; and though he claimed no freedom from error for himself, yet he felt conscious of having done all his work carefully and honestly, and was willing to leave it, such as it was, to the judgment of his contemporaries and of posterity. Once only during the whole of his life did he allow himself to be drawn into a literary controversy; and here, too, he must have felt what most men feel in the end - that it would have been better if he had not engaged in it. The subject of the controversy was the antiquity and originality of Hindu astronomy. Much had been written for and against it by various writers, but by most of them without a full command of the necessary evidence. Colebrooke himself maintained a doubtful attitude. He began, as usual, with a careful study of the sources at that time available, with translations of Sanskrit treatises. with astronomical calculations and verifications; but, being unable to satisfy himself, he abstained from giving a definite opinion. Bentley, who had published a paper in which the antiquity and originality of Hindu astronomy were totally denied, was probably aware that Colebrooke was not convinced by his arguments. When, therefore, an adverse criticism of his views appeared in the first number of our Review, Bentley jumped at the conclusion that it was written or inspired by Colebrooke. Hence arose his animosity, which lasted for many years, and vented itself from time to time in virulent abuse of Colebrooke, whom Bentley accused not only of unintentional error, but of willful misrepresentation and unfair suppression of the truth. Colebrooke ought to have known that in the republic of letters scholars are

sometimes brought into strange society. Being what he was, he need not - nay, he ought not - to have noticed such literary rowdyism. But as the point at issue was of deep interest to him, and as he himself had a much higher opinion of Bentley's real merits than his reviewer, he at last vonehsafed an answer in the "Asiatic Journal" of March, 1826. With regard to Bentley's personalities, he says: "I never spoke nor wrote of Mr. Bentley with disrespect, and I gave no provocation for the tone of his attack on me." As to the question itself, he sums up his position with simplicity and dignity. "I have been no favorer," he writes, "no advocate of Indian astronomy. I have endeavored to lay before the public, in an intelligible form, the fruits of my researches concerning it. I have repeatedly noticed its imperiections, and have been ready to admit that it has been no seanty borrower as to theory."

Colebrooke's stay in India was a long one. He arrived there in 1782, when only seventeen years of age, and he left it in 1815, at the age of fifty. During all this time we see him uninterruptedly engaged in his official work, and devoting all his leisure to literary labor. The results which we have noticed so far, were already astonishing, and quite sufficient to form a solid basis of his literary fame. But we have by no means exhausted the roll of his works. We saw that a supplement to the "Digest of Laws" occupied him for several years. In it he proposed to recast the whole title of inheritance, so imperfectly treated in the "Digest" which he translated, and supplement it with a series of compilations on the several heads of Criminal Law, Pleading, and Evidence, as treated by Indian jurists. In a letter to Sir T.

Strange he speaks of the Sanskrit text as complete, and of the translation as considerably advanced; but it was not till 1810 that he published, as a first installment, his translation of two important treatises on inheritance, representing the views of different schools on this subject. Much of the material which he collected with a view of improving the administration of law in India, and bringing it into harmony with the legal traditions of the country, remained unpublished, partly because his labors were anticipated by timely reforms, partly because his official daties became too onerous to allow him to finish his work in a manner satisfactory to himself.

But although the bent of Colebrooke's mind was originally scientific, and the philological researches which have conferred the greatest lustre on his name grew insensibly beneath his pen, the services he rendered to Indian jurisprudence would deserve the highest praise and gratitude if he had no other title to fame. Among his earlier studies he had applied himself to the Roman law with a zeal uncommon among Englishmen of his standing, and he has left behind him a treatise on the Roman Law of Contracts. When he directed the same powers of investigation to the sources of Indian law he found everything in confusion. The texts and glosses were various and confused. The local customs which abound in India had not been discriminated. Printing was of course unknown to these texts; and as no supreme judicial intelligence and authority existed to give unity to the whole system, nothing could be more perplexing than the state of the law. From this phase Colebrooke brought forth order and light. The publication of the "Dhaya-bhaga," as the cardinal exposition of the law of inheritance, which is the basis of Hindu society, laid the foundation of no less a work than the revival of Hindu jurisprudence, which had been overlaid by the Mohammedan conquest. On this foundation a superstructure has now been raised by the combined efforts of Indian and English lawyers: but the authority which is to this day most frequently invoked as one of conclusive weight and learning is that of Colebrooke. By the collection and revision of the ancient texts which would probably have been lost without his intervention, he became in some degree the legislator of India.

In 1807 he had been promoted to a seat in Council

- the highest honor to which a civilian, at the end of his career, could aspire. The five years' tenure of his office coincided very nearly with Lord Minto's Governor-generalship of India. During these five years the scholar became more and more merged in the statesman. His marriage also took place at the same time, which was destined to be happy, but short. Two months after his wife's death he sailed for England, determined to devote the rest of his life to the studies which had become dear to him, and which, as he now felt himself, were to secure to him the honorable place of the father and founder of true Sanskrit scholarship in Europe. Though his earliest tustes still attracted him strongly towards physical science, and though, after his return to England, he devoted more time than in India to astronomical, botanical, chemical, and geological researches, yet, as an author, he remained true to his vocation as a

Sanskrit scholar, and he added some of the most important works to the long list of his Oriental publications. How high an estimate he enjoyed among the students of physical science is best shown by his election as President of the Astronomical Society, after the death of Sir John Herschel in 1822. Some of his published contributions to the scientific journals, chiefly on geological subjects, are said to be highly speculative, which is certainly not the character of his Oriental works. Nay, judging from the tenor of the works which he devoted to scholarship, we should think that everything he wrote on other subjects would deserve the most careful and unprejudiced attention, before it was allowed to be forgotten; and we should be glad to see a complete edition of all his writings, which have a character at once so

varied and so profound.

We have still to mention some of his more important Oriental publications, which he either began or finished after his return to England. The first is his "Algebra, with Arithmetic and Mensuration, from the Sauskrit of Brahmagupta and Bhaskara, precoded by a Dissertation on the State of the Sciences as known to the Hindus," London, 1817. It is still the standard work on the subject, and likely to remain so, as an intimate knowledge of mathematics is but seldom combined with so complete a mastery of Sanskrit as Colebrooke possessed. He had been preceded by the labors of Burrow and E. Strachey; but it is entirely due to him that mathematicians are now enabled to form a clear idea of the progress which the Indians had made in this branch of knowledge, especially as regards indeterminate analysis. It became henceforth firmly established that the "Arabian Algebra had real points of resemblance to that of the Indians, and not to that of the Greeks that the Diophantine analysis was only slightly cul-

tivated by the Arabs; and that, finally, the Indian was more scientific and profound than either." Some of the links in his argument, which Colebrooke himself designated as weak, have since been subjected to renewed criticism; but it is interesting to observe how here, too, hardly anything really new has been added by subsequent scholars. The questions of the antiquity of Hindu mathematics - of its indigenous or foreign origin, as well as the dates to be assigned to the principal Sanskrit writers, such as Bhaskara, Brahmagupta, Aryabhatta, etc., - are very much in the same state as he left them. And although some living scholars have tried to follow in his footsteps, as far as learning is concerned, they have never approached him in those qualities which are more essential to the discovery of truth than mere reading, viz., caution, fairness, and modesty.

Two events remain still to be noticed before we close the narrative of the quiet and useful years which Colebrooke spent in England. In 1818 he presented his extremely valuable collection of Sanskrit MSS, to the East India Company, and thus founded a treasury from which every student of Sanskrit has since drawn his best supplies. It may be truly said, that without the free access to this collection—granted to every scholar, English or foreign—few of the really important publications of Sanskrit texts, which have appeared during the last fifty years, would have been possible; so that in this sense also, Colebrooke deserves the title of the founder of Sanskrit scholarship in Europe.

The last service which he rendered to Oriental literature was the foundation of the Royal Asiatic Society. He had spent a year at the Cape of Good

Hope, in order to superintend some landed property. which he had acquired there; and after his return to London, in 1822, he succeeded in creating a society which should do in England the work which the Asiatic Society of Bengal, founded in 1784 at Calcutta, by Sir W. Jones, had done in India. Though he declined to become the first president, he became the director of the new society. His object was not only to stimulate Oriental scholars living in England to greater exertions, but likewise to excite in the English public a more general interest in Oriental studies. There was at that time far more interest shown in France and Germany for the literature of the East than in England, though England alone possessed an Eastern Empire. Thus we find Colebrooke writing in one of his letters to Professor Wil-80H: --

"Schlegel, in what he said of some of us (English Orientalists) and of our labors, did not purpose to be uncaudid, nor to undervalue what has been done. In your summary of what he said you set is to the right account. I am not personally acquainted with him, though in correspondence. I do think, with him, that as much has not been done by the English as might have been expected from us. Excepting you and me, and two or three more, who is there that has done anything! In England nobody cares about Oriental literature, or is likely to give the least attention to it."

And again : -

"I rejoles to learn that your great work on the Indian drama may be seen expected by us. I anticipate much gratification from a permul. Carcless and indifferent as our countrymen are, I think, nevertheless, you and I may derive some complacent feelings from the reflection that, following the footsteps of Sir W. Jones, we have, with so little aid of collaborators, and so little encouragement, opened nearly every avenue, and left it to foreigners, who are taking up the clue we have furnished, to complete the outline of what we have sketched. It is some gratification to national pride that the opportunity which the English have enjoyed has not been wholly unemployed."

Colebrooke's last contributions to Oriental learning, which appeared in the "Transactions" of the newly-founded Royal Asiatic Society, consist chiefly in his musterly treatises on Hindu philosophy. In 1823 he read his paper on the Sankhya system; in 1824 his paper on the Nyava and Vaiseshika systems; in 1826 his papers on the Mimansa; and, in 1827, his two papers on Indian Sectaries and on the Vedanta. These papers, too, still retain their value, unimpaired by later researches. They are dry, and to those not acquainted with the subject they may fail to give a living picture of the philosophical struggles of the Indian mind. But the statements which they contain can, with very few exceptions, still be quoted as authoritative, while those who have worked their way through the same materials which he used for the compilation of his essays, feel most struck by the conciseness with which he was able to give the results of his extensive reading in this, the most abstruse domain of Sanskrit literature. The publication of these papers on the schools of Indian metaphysics, which anticipated with entire fidelity the materialism and idealism of Greece and of modern thought, enabled Victor Cousin to introduce a brilliant survey of the philosophy of India into his Lectures on the History of Philosophy, first delivered, we think, in 1828. Cousin knew and thought of Colebrooke exclusively as a metaphysician. He probably cared nothing for his other labors. But as a metaphysician he placed him in the first rank, and never spoke of him without an expression of veneration, very unusual on the eloquent but somewhat imperious lips of the French philosopher.

The last years of Colebrooke's life were full of suffering, both bodily and mental. He died, after a lingering illness, on March 10, 1837.

To many even among those who follow the progress of Oriental scholarship with interest and attention, the estimate which we have given of Colebrooke's merits may seem too high; but we doubt whether from the inner circle of Sanskrit scholars, any dissentient voice will be raised against our awarding to him the first place among Sanskritists, both dead and living. The number of Sanskrit scholars has by this time become considerable, and there is hardly a country in Europe which may not be proud of some distinguished names. In India, too, a new and most useful school of Sanakrit students is rising, who are doing excellent work in bringing to light the forgotten treasures of their country's literature. But here we must, first of all, distinguish between two classes of scholars. There are those who have learnt enough of Sanskrit to be able to read texts that have been published and translated, who can discuss their merits and defects, correct some mistakes, and even produce new and more correct editions. There are others who venture on new ground, who devote themselves to the study of MSS., and who by editions of new texts, by translations of works hitherto untranslated, or by essays on branches of literature not yet explored, really add to the store of our knowledge. If we speak of Colebrooks as facile princeps among Sanskrit scholars, we are thinking of real scholars only, and we thus reduce the number of these who could compete with him to a much smaller compass.

Secondly, we must distinguish between those who

came before Colebrooks and those who came after him, and who built on his foundations. That among the latter class there are some scholars who have carried on the work begun by Colebrooke beyond the point where he left it, is no more than natural. It would be disgraceful if it were otherwise, if we had not penetrated further into the intricacies of Pâxini, if we had not a more complete knowledge of the Indian systems of philosophy, if we had not discovered in the literature of the Vedic period treasures of which Colebrooke had no idea, if we had not improved the standards of criticism which are to guide in the critical restoration of Sanskrit texts. But in all these branches of Sanskrit scholarship those who have done the best work are exactly those who speak most highly of Colebrooke's labors. They are proud to call themselves his disciples. They would decline to be considered his rivals.

There remains, therefore, in reality, only one who could be considered a rival of Colebrooke, and whose name is certainly more widely known than his, viz., Sir William Jones. It is by no means necessary to be unjust to him in order to be just to Calebrooke. First of all, he came before Colebrooke, and had to scale some of the most forbidding outworks of Sanskrit scholarship. Secondly, Sir William Jones died young, Colebrooke lived to a good old age. Were we speaking only of the two men, and their personal qualities, we should readily admit that in some respects Sir W. Jones stood higher than Colebrooke. He was evidently a man possessed of great originality, of a highly cultivated taste, and of an exceptional power of assimilating the exotic beauty of Eastern poetry. We may go even further, and

frankly admit that, possibly, without the impulse given to Oriental scholarship through Sir William Jones's influence and example, we should never have counted Colebrooke's name among the professors of Sanskrit. But we are here speaking not of the men, but of the works which they left behind; and here the difference between the two is enormous. The fact is, that Colebrooke was gifted with the critical conscience of a scholar—Sir W. Jones was not. Sir W. Jones could not wish for higher testimony in his favor than that of Colebrooke himself. Immediately after his death, Colebrooke wrote to his father, June, 1794:—

" Since I wrote to you the world has sustained an irreparable loss in the death of Sir W. Jones. As a judge, as a constitutional lawyer, and for his amiable qualities in private life, he must have been lost with heartfelt regret. But his loss as a litarary character will be felt in a wider circle. It was his intention shortly to have returned to Europe, where the most valuable works might have been expected from his pen. His premature death leaves the results of his researches marranged, and must lose to the world much that was only committed to memory, and much of which the notes must be unintelligible to those into whose hands his papers fall. It must be long before he is replaced in the same career of literature, if he is ever so. None of those who are now engaged in Oriental researches are so fully informed in the classical languages of the East; and I fear that, in the progress of their inquiries, none will be found to have such comprehensive views."

And again :-

"You ask how we are to supply his place? Indeed, but ill.
Our present and future presidents may preside with dignity and
propriety; but who can supply his place in diligent and ingusious researches? Not even the combined efforts of the whole
Society; and the field is large, and few the cultivators."

Still later in life, when a reaction had set in, and

the indiscriminate admiration of Sir W. Jones had given way to an equally indiscriminate depreciation of his merits, Colebrooke, who was then the most competent judge, writes to his father:—

" As for the other point you mention, the use of a translation by Wilkins, without acknowledgment, I can bear testimony that Sir W. Jones's own labors in Manu sufficed without the aid of a translation. He had carried an interlineary Latin version through all the difficult chapters; he had read the original three times through, and he had carefully studied the commenfaries. This I know, because it appears clearly so from the copies of Manu and his commentators which Sir William used, and which I have seen. I must think that he paid a sufficient compliment to Wilkins, when he said, that without his aid he should never have learned Sanskrit. I observe with regret a growing disposition, bern and in England, to depreciate Sir W. Jones's merits. It has not hitherto shown itself beyond private circles and conversation. Should the same disposition be manifested in print, I shall think myself bound to hear public testimony to his attainments in Sanskrit."

Such candid appreciation of the merits of Sir W. Jones, conveyed in a private letter, and coming from the peu of the only person then competent to judge both of the strong and the weak points in the scholarship of Sir William Jones, ought to caution us against any inconsiderate judgment. Yet we do not hesitate to declare that, as Sanskrit scholars, Sir William Jones and Colebrooke cannot be compared. Sir William had explored a few fields only, Colebrooke land surveyed almost the whole domain of Sanskrit literature. Sir William was able to read fragments of epic poetry, a play, and the laws of Mami. the really difficult works, the grammatical treatises and commentaries, the philosophical systems, and before all, the immense literature of the Vedic period were never seriously approached by him. Sir William Jones reminds as sometimes of the dashing and impatient general who tries to take every fortress by bombardment or by storm, while Colebrooke never trusts to anything but a regular siege. They will both retain places of bonor in our literary Walhallas. But ask any librarian, and he will say that at the present day the collected works of Sir W. Jones are hardly ever consulted by Sanskrit scholars, while Colebrooke's essays are even now passing through a new edition, and we hope Sir Edward Colebrooke will one day give the world a complete edition of his father's works.

APPENDIX.

COMPARATIVE VIEW OF SANSKRIT AND OTHER LANGUAGES,

By T. H. Columnooks.

Oxford, September, 1874.

I MENTIONED in my Address before the Aryan section of the Oriental Congress that I possessed some MS, notes of Colebrooke's on Comparative Philology. They were sent to me some time ago by his son, Sir E. Colebrooke, who gave me leave to publish them, if I thought them of sufficient importance. They were written down as far as we know, about the years 1801 or 1802, and contain long lists of words expressive of some of the most important elements of early civilization, in Sanskrit, Greek, Latin, Tentonic, Celtic, and Slavonic. Like everything that Colebrooke wrote, these lists are prepared with great cars. They exist in rough notes, in a first, and in a second copy. I give them from the second copy, in which many words from less important languages are omitted, and several doubtful comparisons suppressed. I have purposely altered nothing, for the interest of these lists is chiefly historical, showing how, long before the days of Bopp and Grimm, Colebrooke had clearly perceived the relationship of all the principal branches of the Aryan family, and, what is more important, how he had anticipated the historical conclusions which a comparison of the principal words of the great dialogs of the Aryan family enables us to draw with regard to the state of civilization anterior to the first separation of

the Aryan race. No one acquainted with the progress which Comparative Philology has made during the last seventy years would think of quoting some of the comparisons here suggested by Colchrooke as authoritative. The restraints which phonetic laws have since imposed on the comparison of words were unknown in his days. But with all that, it is most surprising to see how careful Colchrooke was, even when he had to guess, and how well he succeeded in collecting those words which form the earliest common dictionary of our ancestors, and supply the only trustworthy materials for a history of the very beginnings of the Aryan race.

MAX MULLER.

Futher.

Sans. Pitri (-tii). Beng. Hind. Pita. Pers. Pider. Sons. Janayitri (-tii). Gr. Geneter, Genneter. Let. Gen-

itor.

Sans. Táta. Beng. Tát. Arm. Tat. Wal. Corn. Tad. Ang. Dad.

Sanz. Vaptri (-tá), Beng. Bápá. Hind. Bábá, Báp. Germ. Vater. Belg. Vader. Isl. Bader. Gr. Lat. Pater.

Mother.

Sans, Janayitri, Janani. Gr. Gennêteira. Lat. Genitrix. Sans. Mátri (-tá). Beng. Mátá. Lat. Mater. Gr. Meter. Schw. Mati. L. Mat'hair. Germ. Mutter. Sax. Moder. Belg. Isl. Mooder.

N. B. The roots jan and jani (the past tense of which hast is jajnyi, pronounced jagyi in Bengal, Tirhut, etc.) are evidently analogous to the Latin gigno, and Greek genuso.

Son.

Sons. Patra. Hind. Putr, Put. Timil. Putren. Ori. Pdd.

Sans. Simu. Hind. Sdn, Sulln. Goth. Sunus. Sax. Sunn. Belg. Soen, Sone. Suc. Son. Dalm. Sann. Pol. Boht. Syn. Sci. Sin, Syn. vot. IV. 26

Grandson.

Sans. Naptri (-tá). Lat. Nepos. Hind. Náti. Mahr. Nátú.

Granddaughter.

Sans. Naptri. Lat. Neptis. Hind. Natni. Beng. Nátni. Ori. Nátuni.

Daughter's Son.

Sons. Dauhitra. Beng. Dauhitro. Hind. Dohtá. Gr. Thugatridous.

Son's Son.

Sans. Pautra. Hind. Potá. Beng. Pautro.

Daughter.

Sons. Duhitri (-th). Beng. Duhith. Hind. Dohith. Goth. Dauhter. Saz. Dohter. Pers. Dokhter. Belg. Dochtere. Germ. Tochter. Gr. Thyguter. Sus. Dotter. Id. Dooter. Dan. Dunter.

Sans. Tóca. Russ. Doke. Hind. Dhiya, Dhi. Or. Jhit. Scl. Hzhi. Dalm. Hchii. Boh. Dey, Deera. Ir. Dear.

Brother.

Sans, Bhráirí (-tá). Hind. Bhrátá, Bhai, Bhayá, Bír, Bíran, Pers. Birádar. Corn. Bredar. Wal. Braud. Ir. Brathair. Arm. Breur. Mona. Breyr. Sel. Brat. Russ. Brate. Dalm. Brath. Boh. Bradr. Germ. Bruder Ang.-Sax. Brother. Sax. Brother. Lat. Frater. Gall. Frère.

Sister.

Sans, Bhagini, Hind. Bhagui, Bahin, Bhaini. Beng. Bhogini, Botn. Mahr. Bahin. Or. Bhauni.

Sons. Swart (-m). Ir. Shiur. Gall. Socur. Mona. Sywr. Sicil. Suora. Lat. Soror. Germ. Schwester. Sox. Sweoster. Goth. Swister. Holl. Zuster. Wal. Chuner.

Father-in-law.

Sans. S'waiara. Beng. Sósur. Mahr. Sasará. Hind Susar, Sásrá, Sasúr. Lat. Sócer, Socerus. Gr. Hecyros.

Mother-in-law.

Sana. S'wairú. Beng. Sosru, Sásuri. Hind. Sás. Mahr. Sású. Lat. Socrus. Gr. Heeyra,

Wife's Brother.

Sons, Syála. Beng, Syáloc. Hind, Sálá. Or. Salá.

Husband's Brother.

Sons. Dévri (-vú), Dévara. Hind. Déwar. Guj. Diyar. Mahr. Dír. Gr. Daër. Lat. Levir (olim Devir).

Son-in-law.

Sens. Jámátel (-tá). Hind. Jamái, Jawái. Pers. Dámád.

Widow.

Sans. Vidhaya. Lat. Vidua. Saz. Widwa. Holl. Weduwe.

Daughter-in-law.

Sans. Badhii. Hiad. Bahd. Beng. Bäd. Gall. Brn.
Sans. Sanshii. Cashm. Nus. Penj. Nuh. Gr. Nyos.
Lat. Nurus.

Sun.

Sons, Heli (-lis). Gr. Helios. Arm. Heol. Wal. Hayl, Heyluen.

Sons. Mitra. Pekl. Mithra.

Sans. Milmra, Mahira. Pers. Mihr.

Sans, Súra, Súrya. Hind. Súrej. Mahr. Súrj, Súrya. Ori. Suruy.

Moon.

Sans. Chandra. Hind. Chánd, Chandr, Chandrama.
Sans. Más (máh). Pers. Máh. Boh. Mesyc. Pol. Miesyac.
Dalm. Miszecz.

Star.

Sanz, Tárá. Hind. Tárá. Perz. Siturch. Gr. Auter. Belg. Storre. Saz. Stoorra. Germ. Stern. Corn Arm. Storen.

Month.

Sans. Misa (-sas). Hind. Mahind, Mis. Pers. Mill. Scl. Messcz. Dalm. Miszecz. Wal. Misgunith. Gr. Mene. Lat. Mensis. Gall. Mois.

Day.

Sans. Diva. Mahr. Diwas. Igat. Dies. Sax. Dwg.
Sans. Dina. Hind. Din. Boh. Den. Sel. Dan. Dalm
Dan. Pol. Dzien. Ang. (Ant.) Den.

Night.

Sans. Ratri. Hind. Rat. Penf. Ratter.

Sans. Niś, Niśń. Wal. Arm. Nos.

Sons. Nactá. Lat. Nox. Gr. Nyx. Goth. Nahts, Nauts. Sox. Niht. Id. Natt. Boh. Noc. Gall. Nuit.

By Night.

Sans. (adv.) Nactam. Lat. Noctu. Gr. Nyctor.

Sky, Heaven.

Sans. Div. Diva. Beng. Dibi. Lir. Debbes.

Sons, Swar, Swarga. Hind. Swarag. Gaz. Sarag. Cont. Cerus.

Sons, Nahhus, Beng, Nehho, Russ, Neho, Sel, Nehu, Boh, Nebe, Pol, Niebo,

God.

Sans. Déva (-vas), Dévată. Hind. Déwată. Penj. Déd. Tomil. Taivam. Lat. Deus. Gr. Theos. Wal. Diju. Ir. Diu.

Sans. Bhagavan. Dalm. Bogh. Croat. Bog.

Fire.

Sans. Agni. Casm. Agin. Beng. Agun. Hind. Ag. Scl. Ogein. Croat. Ogayn. Pol. Ogien. Dalm. Ogany. Lat. Ignis.

Sons. Vahni. Boh. Ohen.

Sans. Annla. Beng. Onol. Mona. Aul. Sans. S'ushman (má). Cant. Sua. Sons, Taninapat. Wal. Tan. Ir. Toune.

Sans. Varhis. Saz. Viir. Belg. Vier.

Water.

Sonn, An. Pera, Ab.

Sans. Pániya. Hind. Páni.

Sans, Udaca. Russ. Ouode. Scl. Voda. Bok. Woda.

Sans. Nira, Nára. Beng. Nír. Carn. Níra. Tel. Nillu. Vulg. Gr. Nero.

Sons, Jala. Hind, Jal. Ir. Gil.

Sans Arna Ir. An.

Sons. Vár. Vári. Bony. Bár. Ir. Bir. Cont. Vra.

Cloud.

Sans. Abhra. Penj. Abhar. Casm. Abar. Pers. Abr. Gr. Ombros. Lat. Imber.

Man.

Sons. Nara. Pers. Nar. Gr. Aper.

Sons. Manava, Manosha. Gur. Manas. Beng. Manus. Don. Mand. Saz. Man, Men.

Mind.

Sons, Manas. Gr. Menos. Lat. Mens.

Bone.

Sont, Hud'd'a. Hind. Hadi.

Sonz. Asthi. Lat. Os. Gr. Ostcon.

Hand.

Song, Husta, Hind. Hat'h. Penj. Hatt'h. Beng, Hat, Pers. Dest.

Sans, Cara. Gr. Cheir. Vulg. Gr. Chere. Sons, Pani. Wal. Pawen. Ang. Paw.

Knee.

Sons, Janu. Penj. Jahnu. Pers. Zanu. Hind. Gutana. Gr. Gonu. Lat. Genu. Gall. Genou. Sax. Cagow.

Foot.

Sans. Páda, Pad. Or. Pád. Beng. Pod. Pá. Hind. Pád. Payar. Lat. Pes (pedis). Gr. Pous (pedos). Fulg. Gr. Podare. Gall. Pied. Goth. Fotus. Saz. Fot, Vot. Suc. Foot.

Sans. Anghri. Beng. Onghri. Scl. Noga. Pol. Nogi.

Brennt.

Sans. Stana. Beng. Stan. (Ang. Pap.) Gr. Sternon. Lat. Sternum. (Ang. Chest.)

Navel.

Sans. Nábhi. Hind. Nábh. Beng. Nát. Or. Nahi. Pers. Náf. Gr. Omphalos. Saz. Nafela, Navela.

Ear.

Sons. Carna. Hind. Can. Arm. Skuarn. Corn. Skevam.

Nose.

Sans, Nasich, Nasd, Nasyn. Hind. Nac. Penj. Nacca. Casm. Nast. Lat. Nasus. Germ. Nasc. Bdg. Nuesc. Sax. Noese, Nosa. Suc. Nasa. Boh. Nos. Sci. Nas. Dalm. Noosa.

Tooth.

Sans. Danta. Hind. Dánt. Penj. Dand. Pers. Dendan. Wol. Dant. Lat. Dens. Gall. Dent. Gr. Odous (-ontos). Belg. Tant. Tand. Sax. Toth.

Mouth.

Sour. Muc'ha. Hind. Muc'h, Muh, Munh, Munh. Penj Muh, Gaz. Moh. Saz, Muth.

Elbow.

Sans. Anka, flank; Anga, membrum. Gr. Agkön.

Voice.

Sans. Vách (vác). Lat. Vox. Gr. Ossu.

Name.

Sins, Náman (-ma), Hind. Nám, Náců. Pers. Nám. Gr. Onoma, Lat. Nomen. Gall. Nom. Saz. Nama.

King.

Sanz. Ráj (-t', -d'), Rájan (-já). Hind. Rájá. Lat. Rex. Gall. Roy. Wal. Rhuy, Rhiydh. Ir. Righ, Rak.

Kingdom.

Sans. Rájnya (-am). Lat. Regnum.

Town.

Sans. C'héta. Hind. C'héra. Wal. Kaer. Arm. Koer.

House.

Sans. Ocas. Gr. Oicas.

Sans, Griha. Hind. Ghar. Casm. Gar.

Ship or Boat.

Sans. Nau (naus). Gr. Naus. Lat. Navis. Pers. Nau. Hind. Nau, Nau. Or. Na. Carn. Naviya.

A Small Boat.

Sans. Plava. Mah. Plav. Gr. Ploion.

Thing, Wealth.

Sans. Rai (ras). Lat. Res.

Mountain.

Sonz. Parvata. Hind. Parbat, Pahár. Penj. Parabat. Corn. Parbatavu. Sons. Adri. Penj. Adari. Ir. Ard. Sans. Naga, Aga. Ir. Aigh. Sans. Gravan (-vá), Giri. Lus. Grib. Scl. Hrib.

Rock or Stone.

Sons. Prustara. Hind. Patt'har. Guz. Pat'har. Beng Pat'har. Gr. Petra. Lat. Petra. Sons. Grávan (-vá). Penj. Garáv.

Tree.

Suns. Dru (drus), Druma (-mas). Gr. Drys (Drymos, a wood). Epir. Drum. Russ. Dreous. Scl. Drevu. Sans. Turu. Goth. Triu, Trie. Saz. Treo, Treow. Dan. Tree.

Pomegranate.

Sons. Robita. Gr. Rhon, Rhola.

Horse.

Sons, Ghótaca. Hind. Ghórá. Guz, Ghóró. Casm. Guru. Wol. Goruydh, Govar.

Sans. Haya (-yas). Ant. Sans. Arusha. Isl. Hors, Hestur. Dan. Hest. Suc. Hast. Sax. Hors. Sans. Asya. Penj. Aswa. Pers. Asp.

Ass.

Sans. Chara. Penj. Char. Pers. Khar. Sans. Gardabha. Hind. Gadhá. Tirh. Gadahá.

Mule.

Sans. Aswatara. Pers. Astar.

Camel.

Sons, Ushfra. Hind. Unt. Guz. Ut. Penj. Ustar. Pers. Ushtur, Shutur.

Ox, Cow, Bull.

Sanz. Gó (gans). Hind. Gan. Gál. Beng. Garn. Pers. Gan. Sax. Cu. Sus. Koo. Belg. Koe. Germ. Kue. Sans. Ucshan (-shd). Sax. Oxa. Dam. Oxe. Isl. Uxe. Boh. Ochse. Germ. Ochs. Wal. Yehs.

Sans, Vrisha, Vrishan (-shú). Tirh. Brikh. Boh. Byk. Pol. Beik. Delm. Bak. Luz. Bik. Hung. Bika. Wol. Byuch. Arm. Biych. Corn. Byuh.

Gont.

Sans. Bucca, Barcara. Hind. Bacrá. Mahr. Bácar. Gur. Bácaró. Beng. Bácá. Arm. Buch. Corn. Byk. Sax. Bucca. Gall. Bouc. Sus. Bock. Belg. Bocke. Hol. Bocco.

Ewe.

Sans. Avi (-vis). Gr. Ois. Lat. Ovis. Saz. Eowo.

Wool.

Sans. Urúá. Hind. Un. Sel. Volna. Pol. Welna. Boh. Wina. Dalm. Vana. Sue. Ull. Isl. Ull. Belg. Wull. Germ. Wolle. A.-Sax. Wulle. Wal. Gulan. Corn. Gluan. Arm. Gloan. Ir. Olann.

Hair of the Body.

Sans. Lava. Ir. Lo.
Sans. Lóman (-ma). Róman (-ma). Hind. Róm. Beng.
Lóm, Róm. Casm. Rúm. Mah. Rómé.

Hair of the Head.

Sanz, Césa, Hind. Cés. Carm. Cís. Lat. Crinis. Sanz, Bála. Hind. Bál.

Hog.

Sanz. Súcara (fem -rí). Penj. Súr. Hind. Súir, Súwar, Sú, Suén. Beng. Shúcar, Shiár. Mahr. Dúcar. Tírh. Súgar. Nepal. Surán. Dan. Suin. Sue. Swiin. Lus. Swina. Cara. Swynia, Swine. Ang. Swine. Sax. Sugn. Holl. Sueg. Sanwe. Germ. Sauw. Ang. Sow. Belg. Soch. Lat. Sus. Gr. Hys. Sys. Lacon. Sika. Pers. Khue. Wal. Hukh. Corn. Hoch, Hoh.

Boar.

Smr. Varáha. Hind. Baráh. Oris. Barahá. Beng. Boráhó, Borá. Corn. Bora, Baedh. Belg. Beer. Sox. Bar. Ang. Boar. Span. Berruco. Gall. Verrat. Ital. Verro.

Mouse.

Sanz. Múshaca, Múshá. Hind. Mus, Musi, Musi, Músri, Músná. Penj. Múshá. Tírh. Mús. Lat. Mus. Gr. Mús. Szr. Mus.

Bear.

Sanz. Ricsha. Hind. Richh. Penj. Richh. Guz. Rénchh. Tirh. Rich.

Sans. Bhalla, Bhallaca, Bhállúca. Hind. Bháll, Bháld. Sans. Ach'ha, Acaha. Gr. Arctos. Wal. Arth.

Wolf.

Sans, Vrien. Dalm. Vunk. Sel. Vulk. Pol. Wulk.

Insect.

Sans, Crimi. Pers. Cirm. Beng. Crimi. Tamil. Crimi.

Serpent.

Saus. Ahi (ahis). Gr. Ophia.

Sans. Sarpa. Pers. Serp. Lat. Serpens. Hind. Sárp.

Cuekoo.

Sans. Cocila. Hind. Coil. Lat. Cuculus. Gr. Kokkyr. Sans. Pica. Lat. Picus.

Crab.

Sans. Carcata. Beng. Cáncrá, Céncrá. Hind. Céncrá, Cécrá. Gr. Carcinos. Lot. Cancer. Wal. Krank. Corn. Arm. Kankr. Gall. Cancre. Ir. Kruhan. Saz. Crabbe. Ang. Crab.

Cucumber.

Sans. Carcati. Beng. Cáncur. Hind. Cácri. Let. Cucumer, Cucumia. Gall. Concombre. Ang. Cucumber.

Sound.

Sans, Swann, Swann. Lat. Sonus. Wal. Sun, Son, Sain. Sax. Sund.

Sleep.

Sonz. Swapna, Śaya, Swapa. Beng. Shōön. Hind. (Supna) Sona [to sleep]. Gr. Hypnos. Wal. Heppian [to sleep]. Saz. Sleepan. Ang. Sleep.

New.

Sans. Nava (m. Navas, f. Navá, n. Navam), Navina. Lat. Novus. Gr. Neos, Nearos. Pers. Nó. Hind. Nayá, Nawén. Beng. Niara. Wal. Corn. Neuvdh. Ir. Núadh. Arm. Nevedh, Noadh. Gall. Neuf. Ang. New. Sax. Neow.

Young.

Sans. Yuvan (Yuva). Lat. Juvenis.

Thin.

Sans, Tanus. Lat. Tenuis.

Great.

Sans. Maha. Gr. Mogas. Lat. Magnus.

Broad.

Sons, Urus. Gr. Eurus.

Old.

Sans. Jiráns. Gr. Geron.

Other.

Same. Itaras. Gr. Heteros.

Sans. Anyas. Lat. Allus.

Fool.

Sons, Mud'has, Murchas Gr. Moros.

Dry.

Sans. Caharas. Gr. Xeros.

Sin.

Sans. Agha. Gr. Hagos (veneratio, scelus).

One.

Sans. Eca. Hind. Beng. etc. Ec. Pers. Yéc.

Two.

Sans. Dwi (nom. du. Dwau). Hind. Do. Pers. Do. Gr Dyo. Lat. Duo. Gall. Deux. Corn. Deau. Arm. Dou. Ir. Do. Goth. Twai. Sax. Twu. Ang. Two

Three.

Sans. Tri (nom. pl. Trayas). Lat. Tres. Gr. Treis. Gall. Trois. Germ. Drei. Holl. Dry. Sax. Threo. Ang. Three. Wal. Arm. Ir. Tri. Corn. Tre.

Four.

Sans, Chatur (nom. pl. Chatwáras, fem. Chatasras). Lat. Quatnor. Gall. Quatre. Gr. Tessares. Pers. Chehár. Hind. Chehár.

And.

Sans. Cha. Lat. Que.

Five.

Sans. Pancha. Hind. Pánch. Pers. Penj. Gr. Pente. Arm. Corn. Pemp. Wal. Pymp.

Six.

Sons. Shash. Pers. Shesh. Lat. Sex. Gr. Hex. Gall. Ang. Six. Wal. Khuêkh. Corn. Huih. Arm. Huekh. Ir. She, Seishear.

Seven.

Sanz. Saptn. Lat. Septem. Gall. Sept. Germ. Sieben. Ang. Seven. Saz. Seofon. Gr. Hepta. Pers. Heft. Hind. Sat. Wal. Saith. Arm. Corn. Seith. Ir. Sheakhd.

Eight.

Sans. Asht'a. Pera. Hasht. Hind. Ath. Gall. Huit. Sax. Eshta. Ang. Eight. Ir. Okht. Lat. Octo.

Nine.

Sans. Navn. Hind. No. Lat. Novem. Wal. Corn. Nau. Arm. Não. Ir. Nyi. Pers. Nah. Gall. Neuf. Sar. Nigon. Ang. Nine.

Ten.

Sans, Daśa, Hind, Das. Pers. Dah. Lat. Decem. Ir. Deikh. Arm. Dêk. Corn. Dêg.

PRONOUNS.

L

Sons. Aham (acc. Má; poss. and dat. Mé; du. Nau; pl. Nas). Lat. Gr. Ego, etc. Pers. Men. Hind. Mai. Ir Me. Wal. Corn, Mi. Arm. Ma.

Thou.

Sans. Twam (acc. Twå; poes. and dat. Té; du. Vám; pl. Vas). Lat. Tu, etc. Gr. Su, etc. Hind. Tü, Tain. Beng. Tumi, Tul. Ir. Tu. Pers. To. Arm. Te. Corn. Ta. Wal. Ti.

PREPOSITIONS, ETC.

Sans. Antar. Lat. Inter. Sans. Upari. Gr. Hyper. Lat. Super. Sans. Upa. Gr. Hypo. Lat. Sub. Sans. Apa. Gr. Apo. Sans. Pari. Gr. Peri. Sans. Pra. Gr. Lat. Pro. Sans. Pari. Gr. Pera. Sans. Abhi. Gr. Amphi. Sans. Ati. Gr. Anti. Sans. Ama. Gr. Amá. Sans. Anu. Gr. Ana.

TERMINATIONS.

Sans. (terminations of comparatives and superiatives) Taras, tamas. Gr. Teros, tatos. Lat. Terus, timus. Sans. Ishthas. Gr. Istos.

Sanz. (termin. of nouns of agency) Trt. Gr. Tor, ter. Lat. Tor.

Sans. (termin. of participle) Tas. Gr. Tos. Lat. Tus. Sans. (termin. of supine) Tum. Lat. Tum.

VERBS.

To Be, Root AS.

Sons. Asti, Asi, Asmi, Santi, Stha, Smas. Gr. Esti, Ets (Essi), Eimi (D. Emmi), Eisi (D. Enfi) Este, Esmen (D. Eimes). Lat. Est, Es, Sum, Sont, Estis, Sumus.

To Go, Root L.

Sans. Éti, Ési. Émi, Yanti, Itha, Imas. Lat. It, Is, Eo, Eunt, Itis, Imus. Gr. Eisi, Eis, Eimi, Eisi, Ite, Imon (D. Imes).

To Eat, Root AD.

Sans. Atti, Atsi, Admi, Adanti, Atths, Admas. Lat. Edit, Edis, Edo, Ednut, Editis, Edimus. Gr. Esthiel. Sax. Etan.

To Give, Root DA.

Sans. Dadáti, Dadási, Dadámi. Lat. Dat, Das, Do. Gr. Didősi, Didős, Didőmi. Hence, Sans. Dánam, Lat. Donum.

To Join, Root YUJ.

Sans. Yunacti, Yunjanti. Lat. Jungit, Jungunt. Sans. Yunaimi. Gr. Zeuguumi.

Hence, Sans. Yugam. Lat. Jugum. Gr. Zugos, Zagon. Hind. Juli. Sax. Geoc. Ang. Yoke. Dutch. Joek.

To Sit, Root SAD.

Sons. Sidati, Sidanti. Lat. Sedet, Sedent. Hence, Sons. Sadas. Lat. Sedes.

To Subdue, Root DAM.

Sens. Dámayati. Gr. Damaei. Lat. Domat. Hence, Damanam. Damnum.

To Drink, Root PA or PL

Sons. Pibati, Pibanti; Piyaté. Lat. Bibit, Bibant. Gr. Pinei, Pinousi.

To Die, Hoot MRL

Sanz. Mriyaté, Mriyauté. Lot. Moritur, Moriuntur. Hence, Mritis, Mors, Mritas, Mortuus.

To Know, Root JNYA.

Sans. Jánáti, Jánanti. Gr. Ginosco or Gignosco. Lat. Nosco.

Hence, Jnystas. Lat. Notus. Gr. Gnostos.

To Beget, Root JAN.

Sans. Jáyaté. Pret. Jajnyé (pronounced jagyé). Gr. Ginomai eel Gignomai. Lat. Gigno.

To Go, Root SRIP.

Sans. Sarpati. Lat. Serpit. Gr. Herpei.

To See, Reet DRIS.

Gr. Derco. Sans. Dris. Hind. Dek'h, to see.

To Progreate, Root SU.

Sons. Sdyaté (rad. Sô).

Hence, Sans. Súta, son. Hind. Suill. Gr. Hulos, Hulous.

To Know, Root VID.

Sans. Vid, to know. Lat. Video, to see.

To Delight, Root TRIP.

Sans. Trip. Gr. Terpo.

To Strew, Root STRL

Sanz. Stri. Lat. Sterno. Ang. To strew. Gr. Stornumi, Strommuni.

ADVERBS, ETC.

Sans. A. Gr. A pric. (before vowels An). Sans. Su. Gr. Eû. Sans. Dus. Gr. Dys.

Sans. Chn. Gr. Te. Lat. Que.

Sons. Na. No. Lat. No. Non. Ang. No.

Sons Chit (in comp.). Lat. Quid. Gr. Ti.

Sans, Nann. Lat. Nonne.

Sans. Prabliate. Gr. Prof.

Sons. Pura, Puratas. Gr. Pro, Proteros, etc.

Sons, Punar. Gr. Palin.

Sanz. Pura. Gr. Palai.

Sons. Alam. Gr. Halis.

Sans. Hyas. Gr. Chthes. Sans. Adya. Hind. Aj. Lat. Hodis.

MY REPLY TO MR. DARWIN.

DURING the whole of the year that has just passed away, all my spare time has been required for the completion of my edition of the Rig-Veda and its Sanskrit commentary. I had to shut my eyes to everything else. Many a book which I felt tempted to read was put aside, and hardly a single Review could draw me away from my purpose. Thus it has come to pass that I did not know, till a few days ago, that some Lectures which I had delivered at the Royal Institution on "Mr. Darwin's Philosophy of Language," and which had been fully reported in "Fraser's Magazine" for May, June, and July, 1873, had elicited a reply emanating from one who writes If not in, at least with Mr. Darwin's name, and who himself would be, no doubt most proud to acknowledge the influence of "family bias," I could not have guessed from the title of the paper, " Professor Whitney on the Origin of Language: by George H. Darwin," that it was meant as an answer to the arguments which I had ventured to advance in my Leotures at the Royal Institution against Mr. Darwin's views on language. It was only when telling a friend that I soon hoped to find time to complete those Lectures, that I was asked whether I had seen Darwin's

reply. I read it at once in the November number of the "Contemporary Review;" and, as it will take some time before I can hope to finish my book on "Language as the true barrier between Man and Beast," I determined, in the meantime, to publish a brief rejoinder to the defense of Mr. Darwin's philosophy, so ably and chivalrously conducted by his son.

With regard to the proximate cause of Mr. Darwin's defense of his father's views on language — viz. an article in the "Quarterly Review," I may say at once that I knew nothing about it till I saw Mr. G. Darwin's article; and if there should be any suspicion in Mr. Darwin's mind that the writer in the "Quarterly Review" is in any sense of the word my alterego I can completely remove that impression.

It seems that the writer in the "Quarterly" expressed himself in the following terms with regard to Mr. Darwin's competency on linguistic problems:—

"Few recent intellectual phenomena are more astounding than the ignorance of these elementary yet fundamental distinctions and principles (i.e., as to the essence of language) exhiblied by conspicuous advocates of the monistic hypothesis. Mr. Darwin, for example, does not exhibit the faintest indication of having grasped them."

Mr. Darwin, I mean the father, if he has read my lectures, or anything else I have written, might easily have known that that is not the tone in which I write, least of all when speaking of men who have rendered such excellent service to the advancement of science as the author of the book "On the Origin of Species." To me, the few pages devoted to language by Mr. Darwin were full of interest, as showing the conclusions to which that school of philosophy which he so worthily represents is driven with regard to the

nature and origin of language. If put into more becoming language, however, I do not think there would be anything offensive in stating that Mr. Darwin, Sr., knows the results of the Science of Language at second hand only, and that his opinions on the subject, however interesting as coming from him, cannot be accepted or quoted as authoritative. It has often done infinite mischief when men who have acquired a right to speak with authority on one subject, express opinions on other subjects with which they are but slightly acquainted. These opinions, though never intended for that purpose, are sure to be invested by others, particularly by interested persons, with an authority to which in themselves they have no right whatever. It is true it would be difficult to carry on any scientific work, without to some extent recognizing the authority of those who have established their claim to a certain amount of infallibility within their own special spheres of study. But when either the Pope expresses an opinion on astronomy, or the Duke of Wellington on a work of art, they certainly ought not to be offended if asked for their reasons, like any other mortals. No linguistic student, if he had ventured to express an opinion on the fertilization of orchids, differing from that of Mr. Darwin, would feel aggrieved by being told that his opinion, though showing intelligence, did not show that real grasp of the whole bearing of the problem which can be acquired by a life-long devotion only. If the linguistic student, who may be fond of orchids, cared only for a temporary triumph in the eyes of the world, he might easily find, among the numerous antagonists of Mr. Darwin, one who agreed with himself, and appeal to him as showing that he, though a

ings are founded have been for some time past the commonplaces of Comparative Philology, and required no acknowledgment, he makes an honorable exception in my favor, and acknowledges most readily having borrowed here and there an illustration from my Lectures. As to my own views on the Science of Language, I am glad to find that on all really important points, he far more frequently indorses them nay, corroborates them by new proofs and illustrations - than attempts to refute them; and even in the latter case he generally does so by simply prononneing his decided preference for one out of two opinions, while I had been satisfied with stating what could be said on either side. He might here and there have tempered the wind to the shorn lamb, but I believe there is far more license allowed in America, in the expression of dissent, than in England: and it is both interesting and instructive in the study of Dialectic Growth, to see how words which would be considered offensive in England, have ceased to be so on the other side of the Atlantic, and are admitted into the most respectable of American Reviews.

With regard to the question, for instance, on which so much has lately been written, whether we ought to ascribe to language a natural growth or historical change, I see not one single argument produced on either side of the question in Professor Whitney's Second Lecture, beyond those which I had discussed in my Second Lecture. After stating all that could be said in support of extending the name of history to the gradual development of language, I tried to show that, after all, that name would not be quite accurate.

[&]quot;The process," I said, "through which language is settled

and unsettled combines in one the two opposite elements of necessity and free will. Though the individual seems to be the prime agent in producing new words and new grammatical forms, he is so only after his individuality has been merged in the common action of the family, tribe, or nation to which he belongs. He can do nothing by himself, and the first impulse to a new formation in language, though given by an individual, is mostly, if not always, given without promeditation, may, unconsciously. The individual, as such, is powerless, and the results, apparently produced by him, depend on laws beyond his control, and on the cooperation of all those who form together with him one class, one body, one organic whole. (Page 45.)

After going through the whole argument, I summed up in the end by saying: —

"We cannot be careful enough in the use of our words. Strictly speaking, neither history nor growth is applicable to the changes of the shifting surface of the earth. History applies to the actions of free agents, growth to the natural unfolding of organic beings. We speak, however, of the growth of the crust of the earth, I and we know what we mean by it; and it is in this sense, but not in the sense of growth as applied to a free, that we have a right to speak of the growth of language."

What do we find in Professor Whitney's Second Lecture? He objects, like myself, to comparing the growth of language and the growth of a tree, and like myself, he admits of an excuse, viz., when the metaphor is employed for the sake of brevity or liveliness of delineation (p. 85). I had said:—

"Ever since Horaco, it has been usual to compare the changes of language with the growth of truce. But comparisons are treacherous things; and though we cannot help using metaphorical expressions, we should always be on our guard," etc.

So far we are in perfect harmony. But immedi-1 "The vast number of grammatical forms has had a stratified origin. As on the surface of the earth older and younger layers of stones are found use above the other, or one by the side of the other, we find similar appearances in immange at any time of its culstones." Curtius, Eur Chromolopir, p. 14. ately after, the wind begins to blow. One sentence is torn out from the context, where I had said: -

"That it is not in the power of man (not men) either to produce or to prevent change in language; that we might think as well of changing the laws which control the circulation of our blood, or of adding an inch to our height, as of altering the laws of speech, or inventing new words, according to our pleaster."

In order to guard against every possible apprehension as to what I meant by according to our pleasure, I quoted the well-known anecdotes of the Emperor Tiberius and of the Emperor Sigismund, and referred to the attempts of Protagoras, and other purists, as equally futile. Here the Republican indignation of the American writer is roused; I, at least, can find no other motive. He tells me that what I really wanted to say was this:—

"If so high and mighty a personage as an emperor could not do so small a thing as after the gender and termination of a single word—much less can any one of inferior consideration hope to accomplish such a change."

He then exclaims: -

"The atter futility of deriving such a doctrine from such a pair of incidents, or a thousand like them, is almost too obvious to be worth the trouble of pointing out. . . . High political station does not confer the right to make or unmake language," etc.

Now every reader, even though looking only at these short extracts, will see that the real point of my argument is here entirely missed, though I do not mean to say that it was intentionally missed. The stress was laid by me on the words according to our pleasure; and in order to elucidate that point, I first quoted instances taken from those who in other matters have the right of saying car tel est mon plaisir, and then from others. I feel a little guilty in not having mentioned the anecdote about carrosse; but not being able to verify it, I thought I might leave it to my opponents. However, after having quoted the two Emperors, I quoted a more humble personage, Protagoras, and referred to other attempts at purism in language; but all that is, of course, passed over by

my critic, as not answering his purpose.

Sometimes, amidst all the loud assertion of difference of opinion on Professor Whitney's part, not only the substantial, but strange to say, the verbal agreement between his and my own Second Lecture is startling. I had said: "The first impulse to a new formation in language, though given by an individual, is mostly, if not always, given without premeditation, nav. unconsciously." My antagonist varies this very slightly and says: "The work of each individual is done unpremeditately, or, as it were, unconsciously" (p. 45). While I had said that we individually can no more change language, selon notre plaisir, than we can add an inch to our stature, Professor Whitney again adopts a slight alteration and expresses himself as follows : "They (the facts of language) are almost as little the work of man as is the form of his skull" (p. 52). What is the difference between us? What is the difference between changing our stature and changing our skuil? Nor does he use the word growth as applied to language, less frequently than myself; nay, sometimes he uses it so entirely without the necessary limitations, that even I should have shrank from adopting his phraseology. We read - "In this sense language is a growth" (p. 46); "a language, like an organic body, is no mere aggregate of similar

particles—it is a complex of related and mutually helpful parts" (p. 46); "language is fitly comparable with an organized body" (p. 50); "compared with them, language is a real growth" (p. 51); etc., etc., etc.

In fact, after all has been said by Professor Whitney that had been said before, the only difference that remains is this - that he, after making all these concessions, prefers to class the Science of Language as an historical, not as a physical science. Why should be not? Everybody who is familiar with such questions, knows that all depends on a clear and accurate definition of the terms which we employ. The method of the Science of Language and the physical sciences is admitted, even by him, to be the same (p. 52). Everything therefore depends on the wider or narrower definition which we adopt of physical science. Enlarge the definition of the natural sciences, and the science of language will enter in freely; narrow it, and it will enter with difficulty, or not at all. The same with the historical sciences. Enlarge their definition, and the science of language will enter in freely; narrow it, and it will enter with difficulty, or not at all. There is hardly a word that is used in so many different meanings as nature, and that man in many of his apparently freest acts is under the sway of unsuspected laws of nature, cannot sound so very novel to a student of Kant's writings, to say nothing of later philosophers. 1 My principal object in claiming for the Science of Language the name of a physical science, was to make it quite clear, once for all, that Comparative Philology was totally distinet from ordinary Philology, that it treats language

¹ Son Academy, 10 June, 1875.

not as a vehicle of literature, but for its own sake; that it wants to explain the origin and development far more than the idiomatic use of words, and that for all these purposes it must adopt a strictly inductive method. Many of these views which, when I delivered my first lectures, met with very determined opposition, are now generally accepted, and I can well understand, that younger readers should be surprised at the elaborate and minute arguments by which I tried to show in what sense the Science of Language may be counted as one of the physical sciences. Let them but read other books of the same period, and they will see with how much zeal these questions were then being discussed, particularly in England. Writing in England, and chiefly for English readers, I tried as much as possible to adapt myself to the intellectual atmosphere of that country, and as to the classification of the inductive sciences, I started from that which was then most widely known, that of Whewell in his "History of the Inductive Sciences." He classes the Science of Language as one of the palaitiological sciences, but makes a distinction between palaltiological sciences treating of material things - for instance, geology, and others respecting the products which result from man's imaginative and social endowments-for instance, Comparative Philology. He still excludes the latter from the circle of the physical sciences, properly so called, but he adds :-

"We have seen that biology leads us to psychology, if we choose to follow the path; and thus the passage from the ma-

⁴ As it has been objected that I had no right to claim Dr. Warwell's anthority in support of my classification, I may here add a passage from a letter (Nov. 4, 180)) addressed to me by Dr. Wheredt, in which he fully approve of my treating it a Science of Language as one of the physical.

terial to the immaterial has already unfolded itself at one point and we now perceive that there are several large provinces of speculation which concern subjects belonging to man's immaterial nature, and which are governed by the same laws as sciences altogether physical. It is not our business to dwell on the propects which our philosophy thus opens to our contemplation, but we may allow corselves, in this last stage of our pilgrimage among the foundations of the physical sciences, to be cherred and animated by the ray that thus beams upon us, however dimly, from a higher and brighter region."

Considering the high position which Dr. Whewell held among the conflicting parties of philosophic and religious thought in England, we should hardly have expected that the hope which he expressed of a possible transition from the material to the immaterial, and the place which he tentatively, and I more decidedly, assigned to the Science of Language, could have roused any orthodox animosities. Yet here is the secret spring of Professor Whitney's efforts to claim for the Science of Language, in spite of his own admissions as a scholar, a place among the moral and historical, as distinct from the physical sciences. The theological bias, long kept back, breaks through at last, and we are treated to the following sermon:—

"There is a school of modern philosophers who are trying to materialize all science, to eliminate the distinction between the physical and the intellectual and moral, to declare for nought the free action of the human will, and to resolve the whole story of the fates of mankind into a series of purely material effects, produced by assignable physical causes, and explainable in the most, or determinable in the future, by an intimate knowledge of those causes, by a recognition of the action of compulsory mo-

sciences. "You have more than once done me the honor, in your lectures, of referring to what I have written; but it seems to me possible that you may not have remarked how completely I agree with you in classing the Science of Language among the physical sciences, as to its history and structure."

tives upon the passively obedient nature of man. With such, language will naturally pass, along with the rest, for a physical product, and its study for physical science; and, however we may dissent from their general classification, we cannot quarrel with its application in the particular instance. But by those who still hold to the grand distinction," etc., etc., etc.,

At the end of this arguing pro and con, the matter itself remains exactly where it was before. The Science of Language is a physical science, if we extend the meaning of nature so far as to include human nature, in those manifestations at least where the individual does not act freely, but under reciprocal restraint. The Science of Language is an historical, or, as Professor Whitney prefers to call it, a moral science, if we comprehend under history the acts performed by men "unpremeditately, or, as it were, unconsciously," and therefore beyond the reach of moral considerations.

I may seem to have entered more fully into this question than its real importance requires, but I was anxious, before replying to Mr. Darwin's objections, to show to him the general style of argument that pervades Professor Whitney's writings, and the character of the armory from which he has borrowed his weapons against me. I have not been able to get access to Professor Whitney's last article, and shall therefore confine myself here to those arguments only which Mr. Darwin has adopted as his own, though, even if I had seen the whole of the American article, I should have preferred not to enter into any personal controversy with Professor Whitney. I have expressed my sincere appreciation of the industry and acumen which that scholar displays in his lectures on the Science of Language. There are some portions, particularly those on the Semitic and

American languages, where he has left me far behind. There are some illustrations extremely well chosen, and worked out with a touch of poetic genius; there are whole chapters where by keeping more on the surface of his subject, he has succeeded in making it far more attractive and popular than I could have hoped to do. That treatment, however, entails its dangers, unless an author remembers, at every moment, that in addressing a popular audience he is in honor bound to be far more careful than if he writes for his own professional colleagues only. The comparative portion, I mean particularly the Seventh Lecture, is hardly what one would have expected from so experienced a teacher, and it is strange to find (p. 219) the inscription on the Dailian column referred to about B. C. 263, after Ritschl and Mommsen had pointed out its affected archaisms; to see (p. 222) the name Ahura-Mazda rendered by "the mighty spirit;" to meet (p. 258) with "sarvanaman," the Sanskrit name for pronoun, translated by "name for everything, universal designation;" to hear the Phomician alphabet still spoken of as the ultimate source of the world's alphabets, etc. Such mistakes, however, can be corrected, but what can never be corrected is the unfortunate tone which Professor Whitney has adopted throughout. His one object seems to be to show to his countrymen that he is the equal of Bopp, Renan, Schleicher, Steinthal, Bleek, Hang, and others - aye, their superior. In stating their opinions, in criticizing their work, in suggesting motives, he shrinks from nothing, evidently trusting to the old adage, semper aliquid hasret. I have often asked myself, why should Professor Whitney have assumed this exceptional position

among Comparative Philologists. It is not American to attack others, simply in order to acquire notoriety, America has possessed, and still possesses, some excellent scholars, whom every one of these German and French savants would be proud to acknowledge as his peurs. Mr. Marsh's "Lectures on the English Language" are a recognized standard work in England; Professor's March's "Anglo-Saxon Grammar" lms been praised by everybody. Why is there no trace of self-assertion or personal abuse in any of their works? It is carious to observe in Professor Whitney's works, that the less he has thought on certain subjects, the louder he speaks, and where arguments fail him, epitheta ornantia, such as worthless, futile, absurd, ridiculous, superficial, unsound, high-flown, pretentious, disingenuous, false, are poured out in abundance. I believe there is not one of these choice counters with which, at some time or other, he has not presented me; may, he has even poured the soothing oil of praise over my bruised head. Quand on se permet tout, on peut faire quelque chose. But what has been the result? It has actually become a distinction to belong to the noble army of his martyrs, while, whenever one is praised by him, one feels inclined to say with Phocion, of Sy we to sande Acome ζααυτόν λέληθα.

What such behavior may lead to, we have lately seen in an encounter between the same American savant and Professor Steinthal, of Berlin, In his earlier writings Professor Whitney spoke of Professor Steinthal as an eminent master in linguistic science, from whose writings he had derived the greatest instruction and enlightenment. Afterwards the

¹ Antibritit, Wie einer den Nagel auf den Kopf trift : Dert. 1874

friendly relations between the Yale and Berlin professors seem to have changed, and at last Professor Steinthal became so exasperated by the misrepresentations and the overbearing tone of the American linguist, that he, in a moment of irritation, forgot himself so far as to retaliate with the same missiles with which he had been assailed. What the missiles used in such encounters are, may be seen from a few specimens. One could hardly quote them all in an English Review. While dwelling on the system of hold misrepresentation adopted by Professor Whitney, Professor Steinthal calls him-"That vain man who only wants to be named and praised;" "that horrible humbug;" "that scolding flirt;" "that tricky attorney;" "wherever I read him, hollow vacuity yawns in my face; arrogant vanity grins at me." Surely, mere words can go no further - we must expect to hear of tomahawk and bowie-knife next. Scholars who object to the use of such weapons, whether for offensive or defensive purposes, can do nothing but what I have done for years - remain silent, select what is good in Professor Whitney's writings, and try to forget the rest.

Surely, students of language, of all people in the world, ought to know what words are made of, and how easy it is to pour out a whole dictionary of abuse without producing the slightest effect. A page of offensive language weighs nothing—it simply shows the gall of bitterness and the weakness of the cause; whereas real learning, real love of truth, real sympathy with our fellow-laborers, manifest themselves in a very different manner. There were philosophers of old who held that words must have been produced by nature, not by art, because curses produced such ter-

rible effects. Professor Whitney holds that language was produced the analysis, and yet he shares the same superstitious faith in words. He bitterly complains that those whom he reviles, do not revile him again. He wonders that no one answers his strictures, and he is gradually becoming convinced that he is unanswerable. Whatever Mr. Darwin, Jr., may think of Professor Whitney as an ally, I feel certain that Mr. Darwin, Sr., would be the last to approve the spirit of his works, and that a few pages of his controversial writings would make him say: Non taliancellie.

I now proceed to examine some of the extracts which Mr. Darwin, Jr., adopts from Professor Whitney's article, and even in them we shall see at once what I may call the spirit of the advocate, though others might call it by another name.

Instead of examining the facts on which my conclusions were founded, or showing, by one or two cases, at least, that I had made a mistake or offended against the strict rules of logic, there appears the following sweeping exordium, which has done service before in many an opening address of the counsel for the defendant:—

"It is never entirely easy to reduce to a skeleton of logical statement a discussion as carried on by Müller, because he is careless of logical sequence and connection, preferring to pour himself out, as it were, over his subject, in a gush of genial assection and interesting illustration."

Where is the force of such a sentence? It is a mere pouring out of assertions, though without any interesting illustration, and not exactly genial. All we learn from it is, that Professor Whitney does not find it entirely easy to reduce what I have written to a skeleton of logical sequence, but whether the fault is mine or his, remains surely to be proved. There may be a very strong logical backbone in arguments which make the least display of Aldrich, while in others there is a kind of whited and sepulchral logic which seldom augurs well for what is behind and beneath.

There is a very simple rule of logic, sometimes called the Law of the Excluded Middle, according to which either a given proposition or its contradictory must be true. By selecting passages somewhat freely from different parts of Professor Whitney's lectures, nothing would be easier than to prove, and not simply to assert that he has violated again and again that fundamental principle. In his earlier Lectures we are told, that " to ascribe the differences of language and linguistic growth directly to physical causes, . . . is wholly meaningless and futile " (p. 152). When we come to the great variety of the American languages, we are told that "their differentiation hus been favored by the influence of the variety of climate and mode of life." On page 40, we read that a great genius "may now and then coin a new word!" On page 123, we are told "it is not true that a genius can impress a marked effect upon language." On page 177, M. Renan and myself are told that we have committed a serious error in admitting dialects as antecedent feeders of national or classical languages, and that it is hardly worth while to spend any effort in refuting such an opinion. On page 181, we read, "a certain degree of dialectic variety is inseparable from the being of any language," etc., etc., etc.,

I should not call this a fair way of dealing with any book; I only give these few specimens to show that the task of changing Professor Whitney's Lecture into a logical skeleton would not always be an easy one.

The pleading is now carried on by Mr. G. Darwin: -

"In taking up the cadgels, Müller is clearly impelled by an overmastering fear lest man should lose 'his proud position in the creation' if his animal descent is proved."

I should in nowise be ashamed of the fear thus ascribed to me, but whether it was an overmastering fear, let those judge who have read such passages in my Lectures, as the following:—

"The question is not whether the belief that animals so distant as a man, a monkey, an elephant, and a humming bird, a snake, a freg, and a fish, could all have spring from the same parents is monstreus, but slapply and solely whather it is true. If it is true, we shall soon learn to digest it. Appeals to the pride or humility of man, to scientific courage, or religious pusty, are all equally out of place."

If this and other passages in my Lectures are inspired by overmastering fear, then surely Talleyrand was right in saying that language was intended to disguise our thoughts. And may I not add, that if such charges can be made with impunity, we shall seen have to say, with a still more notorious diplomatist, "What is truth?" Such reckless charges may look heroic, but what applied to the famous charge of Balaclava, applies to them: Cent magnifique, cans doute, mais cent'est pus la guerre.

I am next charged, I do not know whether by the senior or the junior counsel, with maintaining the extraordinary position that if an insensible graduation could be established between app and man, their minds would be identical.

Here all depends on what is meant by mind and by identical. Does Mr Darwin mean by "mind" something substantial - an agent that deals with the impressions received through the senses, as a builder deals with his bricks? Then, according to his father's view, the one builder may build a mere boyel, the other may erect a cathedral, but through their descent they are substantially the same. Or does he mean by "mind," the mode and manner in which sensations are received and arranged, what one might call, in fact, the law of sensuous gravitation? Then I say again, according to his father's view, that law is substantially the same for animal and man. Nor is this a conclusion derived from Mr. Darwin's premises against his will. It is the opinion strongly advocated by him. He has collected the most interesting observations on the incipient germs, not only of language, but of æsthetics and ethics, among animals. If Mr. Darwin, Jr., holds that the mind of man is not substantially identical with the animal mind, if he admits a break somewhere in the ascending scale from the Protogenes to the first Man, then we should be driven to the old conclusion - viz., that man was formed of the dust of the ground, but that God breathed into his nostrils the breath of life, and man became a living soul. Does Mr. Darwin, Jr., accept this?

Next it is said, that by a similar argument the distinction between black and white, hot and cold, a high and a low note might be eliminated. This sounds no doubt formidable—it almost looks like a logical skeleton. But let us not be frightened by words. Black and white are no doubt as different as possible, so are hot and cold, a high and a low note.

But what is the difference between a high and a low note? It is simply the smaller or larger number of vibrations in a given time. We can count these vibrations, and we also know that, from time to time, as the velocity of the vibrations increases, our dull senses can distinguish new tones. We have therefore here to deal with differences that used to be called differences of degree, as opposed to differences in kind. What applies to a low and a high note, applies to a low and high degree of heat, and to the various degrees of light which we call by the names of colors. In all these cases, what philosophers call the substance, remains the same, just as, according to evolutionists, the substance of man and animal is the Therefore, if man differs from an animal no more than a high note differs from a low, or, vice versa, if a high note differs no more from a low than man differs from an ape, my argument would seem to stand in spite of the shower of words poured over ît.

I myself referred to the difference between a high and a low note for a totally different purpose, viz., in order to call attention to those strange lines and limits in nature which, in spite of insensible graduation, enable us to distinguish broad degrees of sound which we call keys; broad degrees of light, which we call colors; broad degrees of heat, for which our language has a less perfect nomenclature. These lines and limits have never been explained, nor the higher limits which separate sound from light, and light from heat. Why we should derive pleasure from the exact number of vibrations which yield C, and then have painful sensations till we come to the exact number of vibrations which yield C sharp, re-

mains as yet a mystery. But as showing that nature had drawn these sharp lines across the continuous stream of vibrations, whether of sound or light, seemed to me an important problem, particularly for evolutionist philosophers, who see in mature nothing but "insensible graduation."

The next charge brought against me is, that I overlook the undoubted and undisputed fact that species do actually vary in nature. This seems to me begging the whole question. If terms like species are fetched from the lumber-room of scholastic philosophy, they must be defined with logical exactness. particularly at present, when the very existence of such a thing as a species depends on the meaning which we assign to it. Nature gives us individuals only, and each individual differs from the other. But "species" is a thing of human workmanship,1 and it depends entirely on the disputed definition of the term, whether species vary or not. In one sense, Mr. Darwin's book, "On the Origin of Species," may be called an attempt to repeal the term "species," or, at all events, an attempt at giving a new definition to that word which it never had before. No one appreciates more than I do the service he has rendered in calling forth a new examination of that old and somewhat rusty instrument of thought,2 Only, do not let us take for granted what has to be proved.

The dust of words grows thicker and thicker as we go on, for I am next told that the same line of proof would show "that the stature of a man or boy was identical, because the boy passes through every gra-

¹ Cl. Sacha Bottony, p. 830.

² See Lectures on the Science of Language, vol. il.

dation on attaining the one stature from the other. No one could maintain such a position who grasped the doctrines of continuity and of the differential calculus." It seems to me that even without the help of the differential calculus, we can, with the help of logic and grammar, put a stop to this argument. Boy is the subject, stature looks like a subject, but is merely a predicate, and should have been treated as such by Mr. Darwin. If a boy arrives by insensible graduation or growth at the stature of man, the man is substantially the same as the boy. His stature may be different, the color of his hair may be so likewise; but what philosophers used to call the substance, or the individuality, or the personality, or what we may call the man, remains the same. If evolutionists really maintain that the difference between man and beast is the same as between a grown-up man and a boy, the whole of my argument is granted, and granted with a completeness which I had no right to expect. Will Mr. Darwin, Senior, indorse the concessions thus made by Mr. Darwin, Junior?

In order to show how the simplest matters can be complicated by a free use of scholastic terms, I quote the following sentence, which is meant as an answer to my argument:—

"According to what is called the Darwinian theory, organlems are in fact precisely the result of a multiple integration of a complex function of a very great number of variables; many of such variables being bound together by relationships amongst themselves, an example of one such relationship being afforded by the law, which has been called 'energlation of growth.'"

Next follows a rocket from Mr. Whitney's armory: — "As a linguist," he says, "Professor Miller claims to have found in language an codowment which has no analogies, and no preparations in even the beings nearest to man, and of which, therefore, no process of transmutation could furnish an explanation. Here is the pivot on which his whole argument rosts and revolves."

So far, the statement is correct, only that I expressed myself a little more cautiously. It is well known, that the animals which in other respects come nearest to man, possess very imperfect phonetic organs, and that it would be improper, therefore, to refer more particularly to them. But, however that may be, I expected at all events some proof that I had made a mistake, that my argument jars, or my pivot gives. But nothing of the kind. No facts, no arguments, but simply an assertion that I do not argue the case with moderation and acuteness, on strict scientific grounds, and by scientific methods in setting up language us the specific difference between man and animals. And why? Because many other writers have adduced other differences as the correct ones.

There is a good deal of purely explosive matter in these vague charges of want of moderation and acuteness. But what is the kernel? I represented language as the specific difference between man and animals, without mentioning other differences which others believe to be specific. It would seem to show moderation rather than the absence of it, if I confined myself to language, to the study of which I have devoted the whole of my life; and perhaps a certain acuteness, in not touching on questions which I do not pretend to have studied, as they ought to be. But there were other reasons, too, which made me

look upon language as the specific difference. The so-called specific differences mentioned by others fall into two classes — those that are implied by language, as I defined the word, and those which have been proved untenable by Mr. Darwin and others. Let us read on now, to see what these specific differences are:—

- "Man alone is capable of progressive improvement."
- "He alone makes use of tools or fire."
- "He alone domesticates other an-
- "He alone possesses property."
- "He alone employs language."
- "No other animal is self-con-
- "He alone comprehends himself."
- "He alone has the power of ab-
- "He alone possesses general ideas,"
- "He alone has sense of beauty."
- " He alone is liable to caprice."
- " He alone has the feeling of grat-
- ** He alone has the feeling of mystery."

Partly denied by Mr. Darwin, partly shown to be the result of language, through which each successive generation profits by the experience of its producessors.

The former disproved by Mr. Darwin, the latter true.

Denied, in the case of the units.

Disproved by every dag in-the-manger.

True.

Either right or wrong, according to the definition of the word, and never capable of direct proof.

True, implied by language. True, implied by language.

True, implied by language. Disproved or rendered doubtful by sexual selection.

Disproved by every horse, or monkey, or mule.

Disproved by every dog.

Cela me passe.

"He alone believes in God." True.

"He alone is endowed with a con- Denied by Mr. Darwin.

Did it show then such want of moderation or acuteness if I confined myself to language, and what is implied by language, as the specific difference between man and beast? Really, one sometimes yearns for an adversary who can hit straight, instead of these

random strokes page after page.

The next attack is so feeble that I should gladly pass it by, did I not know from past experience that the very opposite motive would be assigned to my doing so. I had stated that if there is a terra incognita which excludes all positive knowledge, it is the mind of animals. How, then, I am asked, do you know that no animal possesses the faintest germs of the faculty of abstracting and generalizing, and that animals receive their knowledge through the senses only? I still recollect the time when any philosopher who, even by way of illustration, ventured to appeal to the mind of animals, was simply tabooed, and I thought every student of the history of philosophy would have understood what I meant by saying that the whole subject was transcendent. However, here is my answer: I hold that animals receive their knowledge through the senses, because I can apply a crucial test, and show that if I shut their eyes, they cannot see. And I hold that they are without the faculty of abstracting and generalizing, because I have here nothing before me but mere assertions, I know of no crucial test to prove that these assertions are true. Those who have read my Lectures, and were able to reduce them to a skeleton of logical statement, might have seen that I had adduced another

reason, viz., the fact that general conceptions are impossible without language (using language in the widest sense, so as to include hieroglyphic, numerical, and other signs), and that as no one has yet discovered any outward traces of language among animals, we are justified in not ascribing to them, as yet, the possestion of abstract ideas. This seems to me to explain fully "why the same person (viz., my poor self) should be involved in such profound ignorance, and yet have so complete a knowledge of the limits of the animal mind." If I had said that man has five senses, and no more, would that be wrong? Yet having myself only five senses. I could not possibly prove that other men may not have a sixth sense, or at all events a disposition to develop it. But I am quite willing to carry my agnosticism, with regard to the inner life of animals, still further, and to say again what I wrote in my Lectures (p. 46):-

"I say again and again, that according to the strict rules of positive philosophy, we have no right either to assert or to deny anything with reference to the so-called mind of animals."

But there is another piece of Chinese artillery brought out by Mr. G. Darwin. As if not trusting it himself, he calls on Mr. Whitney to fire it off— "The minds of our fellow men, too," we are told, "are a terra incognita in exactly the same sense as are these of animals."

No atudent of psychology would deny that each individual has immediate knowledge of his own mind only, but even Mr. G. Darwin reminds Mr. Whitney that, after all, with man we have one additional source of evidence—viz., language; nay, he even doubts whether there may not be others, too. If Mr. Darwin, Jr., grants that, I willingly grant him that the

horse's impression of green—nay, my friend's impression of green—may be totally different from my own, to say nothing of Daltonism, color-blindness, and all the rest.¹

After this, I need hardly dwell on the old attempts at proving, by a number of anecdotes, that animals possess conceptual knowledge. The anecdotes are always amusing, and are sure to meet with a grateful public, but for our purpose they have long been ruled out of court. If Mr. Darwin, Jr., should ever pass through Oxford, I promise to show him in my own dog, Waldmann, far more startling instances of sague-ity than any he has mentioned, though I am afraid he will be confirmed all the more in his anthropomorphic

interpretation of canine intelligence.

Now comes a new appeal ad populum. I had ventured to say that in our days nothing was more strongly to be recommended to young and old philosophers than a study of the history of philosophy. There is a continuity, not only in Nature, but also in the progress of the human mind; and to ignore that continuity, to begin always like Thales or Democritus, is like having a special creation every day. Evolutionists seem to imagine that there is evolution for everything, except for evolutionism. What would chemists say, if every young student began again with the theory of a phlogiston, or every geologist with Vulcanism, or every astronomer with the Ptolemæic system? However, I did not go back very far; I only claimed a little consideration for the work done by such giants as Locke, Hume, Berkeley, and Kant. I expressed a hope that certain questions might be considered as closed, or, if they were to be

³ Firks, Outlines of Comic Philosophy, vol. i. p. 17.

re-opened, that at least the controversy should be taken up where it was left at the end of the last debate. Here, however, I failed to make any impression. My appeal is stigmatized as "an attempt to crush my adversaries by a reference to Kant, Hume, Berkeley, and Locke." And the popular tribune finishes with the following brave words: "Fortunately we live in an age, which (except for temporary relapses) does not pay any great attention to the pious founders, and which tries to judge for itself."

I never try to crush my adversaries by deputy. Kant, Hume, Berkeley, and Locke may all be antiquated for all I know; but I still hold it would be useful to read them, before we declare too emphati-

cally that we have left them behind.

I cannot deny myself the satisfaction of quoting on this point the wise and weighty words of Huxley: —

"It is much easier to ask such questions than to answer them, especially if one desires to be on good terms with one's contemporaries: but, if I must give an answer, it is this: The growth of physical science is now so prodigiously rapid, that those who are actively engaged in keeping up with the present, have much mile to find time to look at the past, and even grow into the habit of neglecting it. But, natural as this result may be, it is none the less detrimental. The intellect loses, for there is asamodly no more effectual method of clearing up one's own mind on any subject than by talking it over, so to speak, with men of real power and grasp who have considered it from a totally different point of view. The parallax of time helps us to the true position of a conception, as the parallax of space helps us to that of a star. And the moral nature loses no less. It is well to turn aside from the fretful stir of the present, and to dwell with gratitude and respect upon the services of those mighty men of old who have gone down to the grave with their weapons of war, but who, while they yet lived, wen splendid victories over ignorance."

Next follow some extraordinary efforts on Mr. Whitney's part to show that Locke, whose arguments I had simply re-stated, knew very little about human or animal understanding, and then the threadbare argument of the deaf and dumb is brushed up once more. Until something new is said on that old subject, I must be allowed to remain myself deaf and dumb.

Then comes the final and decisive charge. I had said that " if the science of language has proved anything, it has proved that conceptual or discursive thought can be carried on in words only." Here again I had quoted a strong array of authoritiesnot, indeed, to kill free inquiry -I am not so bloodthirsty, as my friends imagine - but to direct it to those channels where it had been carried on before. I quoted Locke, I quoted Schelling, Hegel, Wilhelm von Humboldt, Schopenhauer, and Mansel - philosophera diametrically opposed to each other on many points, yet all agreeing in what seems to many so strange a doctrine, that conceptual thought is impossible without language (comprehending by language hieroglyphic, numerical, and similar symbols). I might have quoted many other thinkers and poets. Professor Huxley seems clearly to have seen the difference between trains of thought and trains of feelings. "Brutes," he says, "though, from the absence of language, they can have no trains of thoughts, but only trains of feelings, yet have a consciousness which, more or less distinctly, foreshadows our own." And who could express the right view of language more beautifully than Jean Paul ?-

¹ See Killan, Uber die Rocenfrage der Semitischen und driechen Eprachbande, 1074.

"Mich dünkt, der Mensch würde sich, so wie das sprachloss Thier, das in der äussern Welt, wie is einem dunkeln, betäubenden Wellen-Meere schwimmt, ebenfalls in dem vollgestirnten Himmel der äussern Anschauung dumpf verlieren, wenn er das verworrene Leuchten nicht durch Sprache in Sternbilder abtheilte, und sich durch diese das Ganze in Theile für das Bewusstein auflüsete.

Having discussed that question very fully in my Lectures, I shall attempt no more at present than to show that the objections raised by Mr. Darwin, Jr., entirely miss the point. Does he really think that these men could have spent all their lives in considering that question, and never have been struck by the palpable objections raised by him? Let us treat such neighbors, at least like ourselves. I shall, however, do my best to show Mr. Darwin that even I had not been ignorant of these objections. I shall follow him through every point, and, for fear of misrepresenting him, quote his own words:—

"(1) Concepts may be formed, and yet not put before the consciousness of the conceiver, so that he 'realizes' what he is doing."

Does that mean that the conceiver conceives concepts without conceiving them? Then, I ask, whom do these concepts belong to, where are they, and under what conditions were they realized? Is to conceive an active or a passive verb? May I once more quote Kant without incurring the suspicion of wishing to strangle free inquiry by authority? "Concepts," says the old veteran, "are founded on the spontancity of thought, sensuous intuitions on the receptivity of impressions,"

"(2) Complex thoughts are doubtless impossible without symbols, just as are the higher mathematics?" Are lower mathematics possible without numerical symbols, and where is the line which separates complex from simple thought? Everything would seem to depend on that line which is so often spoken of by our critics. There ought to be something in that line which would at once remove the blunders committed by Humboldt and others. It would define the limit between inarticulate and articulate thought; it might possibly be the very frontier between the animal and the human mind, and yet that magic line is simply conceived, spoken of freely, but never realized, i. e., never traced with logical precision. Till that is done, that line, though it may exist, is to me as if it did not exist.

"(3) We know that dogs doubt and hesitate, and finally determine to act without any external determining circumstance."

How this argument fits in here, is not quite clear to me; but, whatever its drift may be, a perusal of Professor Huxley's excellent paper, "The Hypothesis that Animals are Automata," will supply a full answer.

"(4) Professor Whitney very happily illustrates the independence of thought from language, by calling up our state of mind when casting about, often in the most open manner, for new designations, for new forms of knowledge, or when drawing distinctions, and pointing conclusions, which words are then stretched or narrowed to cover."

Language with us has become so completely traditional, that we frequently learn words first and their meaning afterwards. The problem of the original relation between concepts and words, however, refers to periods when these words did not yet exist, but had to be framed for the first time. We are speaking of totally different things; he, of the geology, I, if I may say so, of the chemistry of speech. But even if we accepted the test from modern languages, does not the very form of the question supply the answer? If we want new designations, new forms of knowledge, do we not confess that we have old designations, though imperfect ones; old forms of knowledge which no longer answer our purpose? Our old words, then, become gradually stretched or narrowed, exactly as our knowledge becomes stretched or narrowed, or we at last throw away the old word, and borrow another from our own, or even from a foreign language.

"It is a proof," Mr. Darwin says, " that we realized and conceived the blea of the texture and nature of a musical sound before we had a word for it, that we had to borrow the expressive word "timbre" from the French."

But how did we realize and conceive the idea before we had a word for it? Surely, by old words.
We called it quality, texture, nature — we knew it
as the result of the presence and absence of various
harmonics. In German, we stretched an old word,
and called it Farbs; in English, timbre was borrowed
from the French, just as we may call a pound vingtcing francs; but the French themselves got their
word by the ordinary process — viz., by stretching the
old word, tympanum.

"(5) If Muller had brought before him some whally new nulmal he would find that he could shut his eyes, and call up the image of it readily enough without any accompanying name."

All this is far, far away from the real field of battle. No doubt, if I look at the sun and shut my eyes, the image remains for a time. By imagination I can also recall other sensuous impressions, and, in an attack of fever, I have had sensuous impressions resuscitated without my will. But how does that touch conceptual knowledge? As soon as I want to know what animal it is which I conjure up or imagine to myself, I must either have, for shortness' sake, its scientific name, or I must conceive and realize its cars, or its legs, or its tail, or something else, but al-

ways something for which there is a name.

I have thus, in spite of the old warning, Ne Hercules contra duos, gone through the whole string of charges brought against me by Mr. Darwin and Professor Whitney; and while trying to show them that I was not entirely unprepared for their combined attack, I hope I have not been wanting in that respect which is due even to a somewhat rancorous assailant, I have not returned evil for evil, nor have I noticed objections which I could not refute without seeming to be offensive. Is it not mere skirmishing with blank cartridge, when Professor Whitney assures me that I have never fathomed "the theory of the antecedency of the idea to the word in the minds of those who hold that theory?" Surely, that is the theory which everybody holds who forms his idea of the origin of language from the manner in which we acquire a traditional language ready made, or, later in life, learn foreign languages. It has been my object to show that our problem is not, how languages are learnt, but how language is developed. We might as well form our ideas of the origin of the alphabet from the manner in which we learn to write, and then smile when we are told that, in writing "F" we still draw in the two upper strokes, the two horns of the cerastes, and that the connecting line in the "H

is the last remnant of the lines dividing the sieve, both hieroglyphics occurring in the name of Chufu or Cheops.

Philosophy is a study as much as philology, and though common sense is, no doubt, very valuable within its proper limits, I do not hesitate to say, though I hear already the distant grambling of Jupiter tonans, that it is generally the very opposite of philosophy. One of the most eminent and most learned of living German philosophers—Professor Carriere, of München—says in a very friendly review of Professor Whitney's "Lectures on Language"—

"Philosophical depth and precision in psychological analysis are not his strong points, and in that respect the reader will hardly find anything new in his Lectures."

He goes on to say that -

"The American scholar did not see that language is meant first for forming, afterwards for communicating thought." "Wordmaking," he says with great truth, "is the first philosophy—the first poetry of mankind. We can have sensations, desires, intentions, but we cannot think, in the proper sense of the word, without language. Every word expresses the general. Mr. Whitney has not understood this, and his calling language a human institution is very shallow."

Against Professor Whitney's view that language is arbitrary and conventional, and against the opposite view that language is instinctive, Professor Carriere quotes the happy expression of M. Renan, "La liaiem du sens et du mot n'est jamais nécresaire, jamais arbitraire, tonjours elle est motivée." Here the nail is hit on the hend. Professor Carriere highly commends Professor Whitney's lectures, and he does by no means adopt all my own views; but he felt

obliged to enter a protest against certain journalistic proceedings which in Germany have attracted general attention.

In conclusion, if I may judge from Professor Whitney's lectures, unless he has changed very much of late, I doubt whether he would prove a real ally of Mr. Darwin in his views on the origin of language. Towards the end of his article, even Mr. Darwin, Jr., becomes suspicious. Professor Whitney, he says, makes a dangerous assertion when he says that we shall never know anything of the transitional forms through which language has passed, and he advises his friend to read a book lately published by Count G. A. de Goddesand Liancourt and F. Pincott, called " Primitive and Universal Laws of Language," in which he would find much information and enlightenment on the real origin of roots. There is an unintentional irony in that advice which Professor Whitney will not fail to appreciate. How any one who cares for truth can speak of a dangerous assertion, I do not understand. The Pope may say so, or a barrister; a true friend of truth knows of no danger.

In his "Lectures on Language," Professor Whitney protests strongly against Darwinian materialism. But, as he confesses himself half a convert to the Bow-wow and Pooh-pooh theories, thus showing how wrong I was in supposing that those theories had no advocates among comparative philologists in the nine-teenth century; nay, as now, after he has discovered at last that I am no believer in Ding-dongism, he seems inclined to say a kind word for the advocates of that theory — Heyse and Steinthal — who knows whether, after my Lectures on Darwin's "Philosophy

of Language," be may not be converted by Bleek and Hacekel, the mad Darwinian, as he calls him?

All this, no doubt, has its humorous side, and I have tried to answer it good-humoredly. But it seems to me that it also has a very serious import. Why is there all this wrangling as to whether man is the descendant of a lower animal or not? Why cannot people examine the question in a temper more consonant with a real love of truth? Why look for artificial barriers between man and beast, if they are not there? Why try to remove real barriers, if they are there? Surely we shall remain what we are, whatever befall. When we throw the question back into a very distant autiquity, all seems to grow confused and out of focus. Yet time and space make little difference in the solution of these problems, Let us see what exists to-day. We see to-day that the lowest of savages - men whose language is said to be no better than the clucking of hens, or the twittering of birds, and who have been declared in many respects lower even than animals, possess this one specific characteristic, that if you take one of their babies, and bring it up in England, it will learn to speak as well as any English baby, while no amount of education will elicit any attempts at language from the highest animals, whether bireds or quadrupeds. That disposition cannot have been formed by definite nervous structures, congenitally framed, for we are told by the best Agriclogists that both father and mother clacked like hens. This fact, therefore, unless disproved by experiment, remains, whatever the explanation may be.

Let us suppose, then, that myriads of years age there was, out of myriads of animal beings, one, and

one only, which made that step which in the end led to language, while the whole rest of the creation remained behind; - what would follow? That one being then, like the savage baby now, must have possessed something of his own-a germ very imperfect, it may be, yet found nowhere else, and that germ, that capacity, that disposition - call it what you like - is, and always will remain the specific difference of himself and all his descendants. It makes no difference whether we say it came of itself, or it was due to environment, or it was the gift of a Being in whom we live and move. All these are but different expressions for the Unknown. If that germ of the Leges had to pass through thousands of forms, from the Protogenes to Adam, before it was fit to fulfill its purpose, what is that to us? It was there potentia from the beginning; it manifested itself where it was, in the paulo-post-future man; it never manifested itself where it was not, in any of the creatures that were animals from the beginning, and remained so to the end.

Surely, even if all scholastic philosophy must now be swept away, if to be able to reduce all the wisdom of the past to a tabula rasa is henceforth to be the test of a true philosopher, a few landmarks may still be allowed to remain, and we may venture to quote, for instance, Ex nihilo nihil fit, without being accused of trying to crush free inquiry by an appeal to authority. Language is something, it pre-supposes something; and that which it pre-supposes, that from which it sprang, whatever its pre-historic, pre-mundanc, pre-cosmic state may have been must have been different from that from which it did not spring. People ask whether that germ of language

was "slowly evolved," or "divinely implanted," but if they would but lay a firm grip on their words and thoughts, they would see that these two expressions, which have been made the watchwords of two hostile camps, differ from each other dialectically only.

That there is in us an animal - aye, a bestial nature - has never been denied; to deny it would take away the very foundation of Psychology and Ethics. We cannot be reminded too often that all the materials of our knowledge we share with animals; that, like them, we begin with sensuous impressions, and then, like ourselves, and like ourselves only, proceed to the General, the Ideal, the Eternal. We cannot be reminded too often that in many things we are like the beasts of the field, but that, like ourselves, and like ourselves only, we can rise superior to our bestial self, and strive after what is Unselfish, Good, and God-like. The wing by which we soar above the Sensuous, was called by wise men of old the Logos; the wing which lifts us above the Sensual, was called by good men of old the Daimonion. Let us take continual care, especially within the precincts of the Temple of Science, lest by abusing the gift of speech or doing violence to the voice of conscience, we soil the two wings of our soul, and fall back, through our own fault, to the dreaded level of the Gorilla.

IN SELF-DEFENSE.

PRESENT STATE OF SCIENTIFIC STUDIES.

In has been remarked by many observers that in all branches of physical as well as historical learning there is at the present moment a strongly pronounced tendency towards special researches. No one can hold his own among his fellow-workers who cannot point to some discovery, however small, to some observation, to some decipherings, to some edition of a text hitherto unpublished, or, at least, to some conjectural readings which are, in the true sense of the word, his property. A man must now have served from the ranks before he is admitted to act as a general, and not even Darwin or Mommsen would have commanded general attention for their theories on the ancient history of Rome, or on the primitive development of animal life, unless they had been known for years as sturdy workers in their respective quarries.

On the whole, I believe that this state of public opinion has produced a salutary effect, but it has also its dangers. An army that means conquest, cannot always depend on its scouts and pioneers, nor must it be broken up altogether into single detachments of tirailleurs. From time to time, it has to make a combined movement in advance, and for that purpose

it wants commanders who know the general outlines of the battle-field, and are familiar with the work that can best be done by each branch of the service.

EVOLUTIONISM.

If we look upon scholars, historians, students of physical science, and abstract philosophers, as so many branches of the great army of knowledge which has been fighting its way for centuries for the conquest of truth, it might be said, if we may follow up our comparison a little further, that the light cavalry of physical science had lately made a quick movement in advance, and detached itself too much from the support of the infantry and heavy artillery. The charge was made against the old impregnable fortress, the Origin of Life, and to judge from the victorious hurrans of the assaulting squadron, we might have thought that a breach had at last been effected, and that the keys to the long hidden secrets of creation and development had been surrendered. As the general commanding this attack, we all recognize Mr. Darwin, supported by a brilliant staff of dashing officers, and if ever general was well chosen for victory, it was the author of the " Origin of Species."

There was indeed for a time a sanguine hope, shared by many a brave soldier, that the old warfare of the world would, in our time, be crowned with success, that we should know at last what we are, whence we came, and whither we go; that, beginning with the simplest elementary substances, we should be able to follow the process of combination and division, leading by numberless and imperceptible changes from the lowest Bathybios to the highest Hypsibios, and that we should succeed in establishing

by incontrovertible facts what old suges had but guessed, viz., that there is nowhere anything hard and specific in nature, but all is flowing and growing, without an efficient cause or a determining purpose, under the sway of circumstances only, or of a selfcreated environment. Have his.

But that hope is no longer so loudly and confidently expressed as it was some years ago. For a time all seemed clear and simple. We began with Protoplasm, which anybody might see at the bottom of the sea, developing into Moneres, and we ended with the bimanous mammal called *Homo*, whether sapiens or insipiens, everything between the two being matter of imperceptible development.

DIFFICULTIES IN EVOLUTIONISM.

The difficulties began where they generally begin, at the beginning and at the end. Protoplasm was a name that produced at first a soothing effect on the inquisitive mind, but when it was asked, whence that power of development, possessed by the Protoplasm which begins as a Moneres and ends as Homo, but entirely absent in other Protoplasm, which resists all mechanical manipulation, and never euters upon orgame growth, it was seen that the problem of development had not been solved, but only shifted, and that, instead of simple Protoplasm, very peculiar kinds of Protoplasm were required, which under circumstances might become and remain a Moneres, and under circumstances might become and remain Home forever. That which determined Protoplasm to enter upon its marvelons career, the first snow darryrds, remained as unknown as ever. It was open to call it an internal and unconscious, or an external and conscious power, or both together; physical, metaphysical, and religious mythology were left as free as ever. The best proof of this we find in the fact that Mr. Darwin bimself retained his belief in a personal Creator, while Haeckel denies all necessity of admitting a conscious agent; and Von Hartmann sees in what is called the philosophy of evolutionism the strongest confirmation of idealism, "all development being in truth but the realization of the unconscious reason of the creative idea."

GLOTTOLOGY AND EVOLUTIONISM.

While the difficulty at the beginning consists in this that, after all, nothing can be developed except what was enveloped, the difficulty at the end is this that something is supposed to be developed that was not enveloped. It was here where I thought it became my duty to draw Mr. Darwin's attention to difficulties which he had not suspected at all, or which, at all events, he had allowed himself to under-value. Mr. Darwin lad tried to prove that there was nothing to prevent us from admitting a possible transition from the brute to man, as far as their physical structure was concerned, and it was natural that he should wish to believe that the same applied to their mental capacities. Now, whatever difference of opinion there might be among philosophers as to the classification and naming of these capacities, and as to any rudimentary traces of them to be discovered in animals, there had always been a universal consent that language was a distinguishing characteristic of man. Without inquiring what was implied by

³ See a very remarkable article by Von Harrmann on Hacekel, in the Destrocke Randackon, July, 1875.

language, so much was certain, that language was something tangible, present in every man, absent in every brute. Nothing, therefore, was more natural than that Mr. Darwin should wish to show that this was an error; that language was nothing specific in man, but had its antecedents, however imperfect, in the signs of communication among animals. Influenced, no doubt, by the works of some of his friends and relatives on the origin of language, he thought that it had been proved that our words could be derived directly from imitative and interjectional sounds. If the Science of Language has proved anything, it has proved that this is not the case. We know that, with certain exceptions, about which there can be little controversy, all our words are derived from roots, and that every one of these roots is the expression of a general concept. "Without roots, no language; without concepts, no roots," these are the two pillars on which our philosophy of language stands, and with which it falls.

MR. WEDGWOOD'S DICTIONARY.

Any word taken from Mr. Wedgwood's Dictionary will show the difference between those who derive words directly from imitative and interjectional sounds, and those who do not. For instance, s. v. to plungs, we read:—

"Fr. plonger Du. plotzen, plonssen, plonzen, to fall into the water — Kil.; plotzen, also to fall suddenly on the ground. This origin, like that of plump, is a representation of the noise made by the fall. Swiss bluntschen, the sound of a thick heavy body falling into the water." Under plump we read, "that the radical image is the sound made by a compact body falling into the water, or of a mass of wet falling to the ground. He smit den sten in't water, plump! seg dat, "He threw the stone into the

water; it cried plump! Plumpen, to make the noise represented by plump, to fall with such a noise, etc., etc., etc.,

All this sounds extremely plausible, and to a man not specially conversant with linguistic studies, far more plausible than the real etymology of the word. To plunge is, no doubt, as Mr. Wedgwood says, the French plonger, but the French plonger is plumbicare, while in Italian piombare is cadere a piombo, to fall straight like the plummet. To plunge, therefore, has nothing to do with the splashing sound of heavy bodies falling into the water, but with the concept of straight-

ness, here symbolized by the plummet.

This case, however, would only show the disregard of historical facts with which the enematopoic school has been so frequently and so justly charged. But as we cannot truce plumbum, or μόλυβος, or Old Slav. olovo with any certainty to a root such as mal, to be soft, let us take another word, such as feather. Here, again, we find that Mr. Wedgwood connects it with such words as Bay, fledern, Du. vlederen, to flap, flutter, the loss of the I being explained by such words as to splutter and to sputter. We have first to note the disregard of historical facts, for feather is O. H. G. fedura, Sk. pat-tra, Gr. erross for vergor, all derived from a root pat, to fly, from which we have also penna, old pesna, vir-ount, peta, impetus, etc. The root put expresses violent motion, and it is specialized into upward motion, wfrom, I fly; downward motion, Sk. patati, he falls; and onward motion, as in Latin pelo, impelus, etc. Feather, therefore, as derived from this root, was conceived as the instrument of flying, and was never intended to imitate the noise of Du. elederen, to flutter, and to flap,

M1 LECTURES ON MR. DARWIN'S PHILOSOPHY OF LANGUAGE.

As this want of historical treatment among onomatopoic philologists has frequently been dwelt on by myself and others, these instances may suffice to mark the difference between the school so ably and powerfully represented by Mr. Wedgwood, and the school of Bopp, to which I and most comparative philologists belong. It was in the name of that school that I ventured to address my protest to the school of evolutionists, reminding them of difficulties, which they had either ignored altogether, or, at all events, greatly undervalued, and putting our case before them in such a form that even philosophers, not conversant with the special researches of philologists, might gain a clear insight into the present state of our science, and form their opinion accordingly. In doing this I thought I was simply performing a

duty which, in the present state of divided and subdivided labor, has to be performed, if we wish to prevent a useless waste of life. However different our pursuits may be, we all belong, as I said before, to the same army, we all have the same interests at heart, we are bound together by what the French would call the strongest of all solidarities, the love of truth. If I had thought only of my own fellow-laborers in the field of the Science of Language, I should not have considered that there was any necessity for the three Lectures which I delivered in 1873 at the Royal Institution. In my first course of Lectures on the Science of Language (1861), delivered before Evolution-

ism had assumed its present dimensions, I had already expressed my conviction that language is the one great

barrier between the brute and man,

"Man speaks," I said, " and no brute has ever uttered a word, Language is something more palpable than a fold of the brain or an angle of the shull. It admits of no caviling, and no process of natural selection will ever distill significant words out of the notes of birds or the cries of heasts."

No scholar, so far as I know, has ever controverted any of these statements. But when Evolutionism became, as it fully deserved, the absorbing interest of all students of nature, when it was supposed that, if a Moneres could develop into a Man, Bow-wow and Pooh-pooh might well have developed by imperceptible degrees into Greek and Latin, I thought it was time to state the case for the Science of Language and its bearing on some of the problems of Evolutionism more fully, and I gladly accepted the invitation to lecture once more on this subject at the Royal Institution in 1873. My object was no more than a statement of facts, showing that the results of the Science of Language did not at present tally with the results of Evolutionism, that words could no longer be derived directly from imitative and interjectional sounds, that between these sounds and the first beginnings of language, in the technical sense of the word, a barrier had been discovered, represented by what we call Roots, and that, as far as we know, no attempt, not even the faintest, has ever been made by any unimal. except man, to approach or to cross that barrier. I went one step further. I showed that Roots were with man the embodiments of general concepts, and that the only way in which man realized general concepts, was by means of those roots, and words derived from roots. I therefore argued as follows: We do not know anything and cannot possibly know anything of the mind of animals: therefore, the proper

attitude of the philosopher with regard to the mental capacities of animals is one of complete neutrality. For all we know, the mental capacities of animals may be of a higher order than our own, as their sensuous capacities certainly are in many cases. All this, however, is guesswork; one thing only is certain. If we are right that man realizes his conceptual thought by means of words, derived from roots, and that no animal possesses words derived from roots, it follows, not indeed, that animals have no conceptual thought (in saying this, I went too far), but that their conceptual thought is different in its realized shape from our own.

From public and private discussions which followed the delivery of my lectures at the Royal Institution (an abstract of them was published in "Fraser's Magazine," and republished, I believe, in America), it became clear to me that the object which I had in view had been fully attained. General attention had been roused to the fact that at all events the Science of Language had something to say in the matter of Evolutionism, and I know that those whom it most concerned were turning their thoughts in good earnest to the difficulties which I had pointed out. I wanted no more, and I thought it best to let the matter ferment for a time.

MR. GEORGE DARWIN'S ARTICLE IN THE "CONTEMPORARY REVIEW."

But what was my surpise when I found that a gentleman who had acquired considerable notoriety, not indeed by any special and original researches in Comparative Philology, but by his repeated attempts at vilifying the works of other scholars, Professor Whit-

ney, had sent a paper to Mr. Darwin, intended to throw discredit on the statements which I had recommended to his serious consideration. I did not know of that paper till an abstract of it appeared in the "Contemporary Review," signed George Darwin, and written with the avowed purpose of discrediting the statements which I had made in my Lecture at the Royal Institution. If Professor Whitney's appeal had been addressed to scholars only, I should gladly have left them to judge for themselves. But as Mr. Darwin, Jr., was prevailed upon to stand sponsor to Professor Whitney's last production, and to lend to it, if not the weight, at least the lustre of his name, I could not, without appearing uncourteous, let it pass in silence. I am not one of those who believe that truth is much advanced by public controversy, and I have carefully eschewed it during the whole of my literary career. But if I had left Professor Whitney's assertions unanswered, I could hardly have complained, if Mr. Darwin, Sr., and the many excellent savants who share his views, had imagined that I had represented the difficulties which the students of language feel with regard to animals developing a language, in a false light; that in fact, instead of wishing to assist, I had tried to impede the onward march of our brave army. I have that faith in of soal Darwin, that I believe they want honest advice, from whatever quarter it may come, and I therefore was persunded to deviate for once from my usual course, and, by answering seriatim every objection raised by Professor Whitney, to show that my advice had been tendered bond fide, that I had not spoken in the charactor of a special pleader, but simply and solely as a man of truth.

MY ANSWER TO MIL DARWIN.

My "Answer to Mr. Darwin" appeared in the "Contemporary Review" of November, 1874, and if it had only elicited the letter which I received from Mr. Darwin, Sr., I should have been amply repaid for the trouble I had taken in the matter.

It produced, however, a still more important result, for it elicited from the American assailant a lasty rejoinder, which opened the eyes even of his best friends to the utter weakness of his case. Professor Whitney, himself, had evidently not expected that I should notice his assault. He had challenged me so often before, and I had never answered him. Why, then, should I have replied now? My answer is, because, for the first time, his charges had been countersigned by another.

I had not even rend his books before, and he blames me severely for that neglect, bluntly asking me, why I had not read them. That is indeed a question extremely difficult to answer without appearing to be rude. However, I may say this, that to know what books one must read, and what books one may safely leave unread, is an art which, in these days of literary fertility, every student has to learn. We know on the whole what each scholar is doing, we know those who are engaged in special and original work, and we are in duty bound to read whatever they write. This in the present state of Comparative Philology, when independent work is being done in every country of Europe, is as much as any man can do, nay, often more than I feel able to do, But then, on the other hand, we claim the liberty of leaving unout other books in our science, which, however entertaining they may be in other respects, are not likely to contain any new facts. In doing this, we run a risk, but we cannot help it.

And let me ask Professor Whitney, if by chance he land opened a book and alighted on the following

passage, would be have read much more?

"Take as instances home and homely, scarce and scarcery, direct and directly, but and busty, naught and naughty, clark and clergy, a forge and a forgery, candid and candidate, haspital and hospitality, idiam and idiacy, alight and delight, etc."

Is there any philologist, comparative or otherwise, who does not know that light, the Gothic lighth, is connected with the Latin lucere; that to delight is connected with Latin delector, Old French delector, and with Latin de-lie-ere; while to alight is of Tentonic origin, and connected with Gothic leihts, Latin levis, Sanskrit laghus?

But then, Professor Whitney continues, when at last he had forced me to read some of his writings, why did I not read them carefully? Why did I read Mr. Darwin's article in the "Contemporary Review" only, and not his own in an American journal?

Now here I feel somewhat guilty: still I can offer some excuse. I did not read Professor Whitney's reply in the American original, first, because I could not get it in time; secondly, because I only felt bound to answer the arguments which Mr. Darwin had adopted as his own. Looking at the original article afterwards, I found that I had not been entirely wrong. I see that Mr. Darwin has used a very wise discretion in his selection, and I may now tell Professor Whitney that he ought really to be extremely grateful that nothing except what Mr. Darwin had approved of, was placed before the English

readers of the "Contemporary Review," and therefore answered by me in the same journal.

THE PHENICIAN ALPHABET.

Other charges, however, of neglect and carelessness on my part in reading Professor Whitney's writings, I can meet by a direct negative. Among the more glaring mistakes of his lectures which I had pointed out, was this, that fifteen years after Rouge's discovery, Professor Whitney still speaks of "the Phenician alphabet as the ultimate source of the world's alphabets." Professor Whitney answers: "If Professor Müller had read my twelfth lecture he would have found the derivative nature of the Phenician. alphabet fully discussed." When I read this, I felt a pang, for it was quite true that I had not read that lecture. I saw a note to it, in which Professor Whitney states that the sketch of the history of writing contained in it was based on Steinthal's admirable essay on the "Development of Writing," and being acquainted with that, I thought I could dispense with lecture No. 12. However, as I thought it strange that there should be so glaring a contradiction between two lectures of the same course, that in one the Phenician alphabet should be represented as the ultimate source, in another as a derivative alphabet, I set to work and read lecture No. 12. Will it be believed that there is not one word in it about Rouge's discovery, published, as I said, fifteen years ago, that the old explanation that Aleph stood for an ox, Beth for a house, Gimel for camel, Daleth for door, is simply repeated, and that similarities are detected between the forms of the letters and the figures of the objects whose names they bear? Therefore of two

things one, either Professor Whitney was totally ignorant of what has been published on this subject during the last fifteen years by Rougé, father and son, by Brugsch, Lenormant and others, or he thought he might safely charge me with having misrepresented him, because neither I nor any one else was likely to read lecture No. 12.

After this instance of what Professor Whitney considers permissible, I need hardly say more; but having been cited by him before a tribunal which hardly knows me, to substantiate what I had asserted in my "Answer to Mr. Darwin," it may be better to go manfully through a most distasteful task, to answer seriatim point after point, and thus to leave on record one of the most extraordinary cases of what I can only call Literary Daltonism.

LIKE AND UNLIKE.

I am accused by Professor Whitney of having read his lectures carelessly, because I had only been struck by what seemed to me repetitions from my own writings, without observing the deeper difference between his lectures and my own. He therefore advises me to read his lectures again. I am afraid I cannot do that, nor do I see any necessity for it, because though I was certainly staggered by a number of coincidences between his lectures and my own, I was perfectly aware that they differed from each other more than I cared to say. I imagined I had conveyed this as clearly as I could, without saying anything offensive, by observing that in many places his arguments seemed to me like an inverted fugue on a motive taken from my lectures. But if I was not sufficiently outspoken on that point, I am quite willing to make amends for it now.

AN INVERTED FUGUE.

I must give one instance at least of what I mean by

an inverted fugue.

I had laid great stress on the fact that, though we are accustomed to speak of language as a thing by itself, language after all is not something independent and substantial, but, in the first instance, an act, and to be studied as such. Thus I said (p. 51):—

"To spenk of language as a thing by itself, as living a life of its own, as growing to maturity, producing offspring, and dying away, is sheer mythology."

Again (p. 58): -

"Language exists in man, it lives in being spoken, it dies with each word that is pronounced, and is no longer heard."

When I came to Professor Whitney's Second Lecture, and read (p. 35):—

"Language has, in fact, no existence save in the minds and mouths of those who use it,"

I felt pleasantly reminded of what I knew I had said somewhere. But what was my surprise, when a few lines further on I read:—

"This truth is sometimes explicitly denied, and the opposite doctrine is set up, that language has a life and growth independent of its speakers, with which men cannot interfere. A recent popular writer (Professor Max Müller) asserts that, 'although there is a continuous change in language, it is not in the power of man either to produce or to prevent it. We might think as well of changing the laws which control the circulation of our blood, or of adding an inch to our height, as of altering the laws of speech, or inventing new words according to our own pleasure."

How is one to fight against such attacks? The very words which Professor Whitney had paraphrased before, only substituting "akull" for "height," and by which I had tried to prove "that languages are not the artful creations of individuals," are turned against me to show that, because I denied to any single individual the power of changing language ad libitum, I had set up the opposite doctrine, viz. that language has a life and growth independent of its speakers.

Does Professor Whitney believe that any attentive reader can be taken in by such artifices? Suppose I had said that in a well-organized republic no individual can change the laws according to his pleasure, would it follow that I held the opposite doctrine, that laws have a life and growth independent of the law-giver? The simile is weak, because an individual may, under very peculiar circumstances, change a law according to his pleasure: but weak as it is, I hope it will convince Professor Whitney that Formal Logic is not altogether a useless study to a Professor of Linguistics. I only wonder what Professor Whitney would have said if he had been able to find in my Lectures a definition of language (p. 46), worthy of Friedrich Schlegel, viz.:—

"Language, like an organic body, is no mere aggregate of similar particles; it is a complex of related and mutually helpful parts."

And again: -

"The rise, development, decline, and extinction of language are like the hirth, increase, decay, and death of a living creature."

In these poetical utterances of Professor Whitney's we have an outbreak of philological mythology of a very serious nature, and this many years after I had uttered my warning that " to speak of language as a thing by itself, as living a life of its own, as growing to maturity, producing offspring, and dying away, is sheer mythology " (I. p. 51).

REPETITIONS AND VARIATIONS.

It is, no doubt, quite natural that in reading Professor Whitney's lectures I should have been struck more forcibly than others by coincidences, which have reference not only to general arguments, but even to modes of expression and illustrations. I had pointed out some of these verbal or slightly disgnised coincidences in my first article, but I could add many more. As we open the book, it begins by statingthat the Science of Language is a modern science, that its growth was analogous to that of other sciences, that from a mere collection of facts it advanced to classification, and from thence to inductive reasoning on language. We are told that ancient nations considered the languages of their neighbors as merely barbarous, that Christianity changed that view, that a study of Greek, Latin, and Hebrew widened the horizon of scholars, and that at present no dialect, however rude, is without importance to the students of the Science of Language. Next comes the importance of the discovery of Sanskrit, and a challenge for a place among the recognized sciences in favor of our new science.

Now I ask any one who may have read my Lectures, whether it was not very natural that I should be struck with a certain similarity between my old course of lectures on the Science of Language, and the lectures delivered soon after on the Science of Language at Washington? But I was not blind to the differences, and I never wished to claim as my own what was original in the American book. For instance, when the American Professor says that one of the most important problems is to find out "How we learn English," I said at once, "That a his ane;" and when after leading us from mother to grandmother, and great-grandmother, he ends with Adam, and says:—

"It is only the first man before whom every beast of the field and every fowl of the air must present itself, to see what he will call it; and whatever he calls any living creature, that is the name thereof, not to himself alone, but to his family and descendants, who are content to style each as their father had done before them."

I said again, "That's his one."

When afterwards we read about the large and small number of words used by different ranks and classes, and by different writers, when we come to the changes in English, the phonetic changes, to phonetics in general, to changes of meaning, etc., few, I think, will fail to perceive what I naturally perceived most strongly, "the leaves of memory rustling in the dark." I perceived even such accidental reminiscences as:—

Old Prussian leaving behind a brief catechism (p. 215), and,

Old Prussian leaving behind an old eatechism (p. 200);

Frisian having a literature of its own (p. 211), and the

Frisians having a literature of their own (p. 178), though, of course, no other reader could possibly perceive such unimportant coincidences. These, no doubt, were mere accidents; but when we consider that there is perhaps no science which admits of more varied illustration than the Science of Language, then to find page after page the same instances which one had collected one's self, certainly left the impression that the soil from which these American lectures sprang, was chiefly alluvial. Of course, as Professor Whitney has acknowledged his indebtedness to me for these illustrations, I have no complaint to make, I only protest against his ingratitude in representing such illustrations as mere by-work. For the purpose of teaching and placing a difficult subject into its proper light, illustrations, I think, are hardly less important than arguments. In order to show, for instance, in what sense Chinese may be called a parter enfantin, I had said:—

"If a child says up, that up is to his mind, noun, verb, adjective, all in one. It means, I want to get up on my mother's lap."

What has Professor Whitney to say on the same subject?

"It is thus that, even at present, children begin to talk; a radical word or two means in their mouths a whole sentence; up signifies 'Take me up into your lap."

Enough of this, if not too much. Perhaps a thousand years hence, if any of our books survive so long, the question whether my lectures were written by myself, or by an American scholar settled in Germany, may exercise the critical acumen of the philologists of the future.

LECTURES PRINTED IN ENGLAND ALSO.

But I see there is one more charge of carelessness brought against me, and as I promised to answer every one, I must at least mention it.

"He has not even observed that my Lectures are printed and published in England, and not only in America." Why I ought to have observed this, I do not understand. Would it have served as an advertisement? Should I have said that the anthor resided in Canada to secure his book against the imminent danger of piracy in England? Or does Professor Whitney suspect here too, one of those sinister influences which he thought had interfered with the sale of his books in England? However, whatever sin of omission I have committed, I am quits willing to apologize, in order to proceed to graver matters.

THE SCIENCE OF LANGUAGE AS ONE OF THE PHYS-ICAL SCIENCES.

I stand charged next not only with having read Professor Whitney's writings in too cursory a manner, but with actually having misrepresented his views on the question, so often discussed of late, whether the Science of Language should be reckoned one of the historical or one of the physical sciences. Let us look at the facts:—

I had tried to show in my very first Lecture in what sense the Science of Language might properly be called a physical, and in what sense it might be called an historical science. I had given full weight to the arguments on either side, because I felt that, owing to the twofold nature of man, much might be said with perfect truth for one or the other view. When I look back on what I wrote many years ago, after having carefully weighed all that has been written on the subject during the last fifteen years, I am glad to find that I can repeat every word I then wrote, without a single change or qualification.

"The process" I said (p. 49), "through which language is settled and unsettled, combines in one the two opposite elements

of necessity and freewill. Though the individual seems to be the prime mover in producing new words and new grammatical forms, he is so only after his individuality has been merged in the common action of the family, tribe, or nation to which he belongs. He can do nothing by himself, and the first impulse to a new formation in language, though given by an individual, is mostly, if not always, given without premeditation, nay, unconsciously. The individual, as such, is powerless, and the results apparently produced by him, depend on laws beyond his control, and on the cooperation of all those who form together with him one class, one body, or one organic whole. But though it is easy to show that language cannot be changed or monabled by the taste, the fancy, or genius of man, it is nevertheless through the instrumentality of man alone that language can be changed."

Now I ask any reader of Mr. Whitney's Lectures, whether he has found in them anything in addition to what I had said on this subject, anything materially or even in form, differing from it. He speaks indeed of the actual additions made by individuals to language, but he treats them, as I did, as rare exceptions (p. 32), and I cannot help thinking that when he wrote (p. 52):—

"Languages are almost as little the work of man as is the form of his skull, the outlines of his face, the construction of his arm and hand."

he was simply paraphrasing what I had said, though, as will be seen, far more cautiously than my American colleague, because my remarks referred to the laws of language only, not to language as a whole (p. 47):—

"We might think as well of changing the laws which control the circulation of our blood, or of adding an inch to our height, as of altering the laws of speech, and inventing new words, arcording to our own pleasure."

I cannot hope to convince Mr. Whitney, for after

I had tried to explain to him, why I considered the question whether the Science of Language is to be classed as a physical or an historical science, as chiefly a question of technical definition, he replies:

"That I should probably consider it as more than a matter of terminology or technical definition whether our science is an historical science, because men make language, or a physica' science, because men do not make language."

Everybody will see that to attempt a serious argument on such conditions, is simply impossible.

If Professor Whitney can produce one single passage in all my writings where I said that men do not make language, I promise to write no more on language at all. I see now that it is Schleicher who, according to Professor Whitney, at least, held these crude views, who called languages natural organisms, which, without being determinable by the will of man, arose, grew, and developed themselves, in accordance with fixed laws, and then again grow old and die out; who ascribed to language that succession of phenomena which is wont to be termed life, and who accordingly classed Glottik, the Science of Language, as a natural science. These are the very opinions which, with the exception of the last, are combated in my writings.

I understood perfectly well what Mr. Whitney meant, when he, like nearly all scholars before him, claimed the Science of Language as an historical or a moral science. Man is an amphibious creature, and all the sciences concerning man, will be more or less amphibious sciences. I did not rush into print, because he took the opposite side to the one I had taken. On the contrary, having myself laid great stress on the fact that language was not to be treated

as an artful escation of the individual, I was glad that the artistic element in language, such as it is, should have found so eloquent an advocate. But I confess, I was disappointed when I saw that, with the exception of a few purely sentimental protests, there was nothing in Mr. Whitney's treatment of the subject that differed from my own. I proved this, if not to his satisfaction, at least to that of others, by giving verbatim extracts from his Lectures, and what is the consequence? As he can no longer deny his own words, he uses the only defense which remained, he now accuses me of garbling quotations and thus misrepresenting him. This, of course, may be said of all quotations, short of reprinting a whole chapter. Yet to my mind the charge is so serious, that I feel in duty bound to repel it, not by words, but by facts.

This is the way in which Professor Whitney tries to escape from the net in which he had entangled himself. In his reply to my argument he says:—

"He chooses even more than once a sentence, in order to prove that I maintain an opinion, directly from an argument in support of the opposite opinion; for instance, in quoting my words, 'that languages are almost as little the work of man as is the form of his skull,' he overlooks the preceding parts of the same sontence; 'as opposed to the objects which he, the linguist, follows in his researches, and the results which he wishes to attain.' The whole is a part of a section which is to prove that the absence of reflection and conscious latent, takes away from the facts of language the subjective character which won,! otherwise belong to them as products of the voluntary action."

Very well. We now have what Professor Whitney says that he said. Let us now read what he really said (p. 51):— "The linguistic student feels that he is not dealing with the ariful creations of individuals. So far as concerns the purposes for which he examines them, and the results he would derive from them, they are almost as little the work of man as is the form of his skull."

To render "so far as concerns the purposes" by "Gegenüber den Zwecken, die er bei seinen Untersuchungen verfolgt," is a strong measure. But even thus, the facts remain as I, not as he, had stated There was no garbling on my part, but something worse than garbling on his, and all this for no purpose whatever, except for one which I do not like to suggest. As a linguistic student Professor Whitney feels what I had felt, that we are not dealing with the artful creations of individuals.' What Professor Whitney may feel besides about language, does not concern us, but it does concern us, and it does still more concern him, that he should not endeavor to impart to scientific language that character which, as he admits, it has not, viz., that of being the very artful creation of an individual.

I am quite willing to admit, and I have done so before on several occasions, that I may have laid too great stress on those characteristics of the Science of Language by which it belongs to the physical sciences. I have explained why I did so at the time. In fact these are not new questions. Because I had said, as Dr. Whewell had said before me, —

"That there are several large provinces of speculation which concern subjects belonging to man's immaterial nature, and which are governed by the same laws as sciences altogether physical,"

it did not follow, as Professor Whitney seems to think, that I regarded language as something like a cow or a potato. I cannot defend myself against such puerilities.

In reviewing Schleicher's essay, "On Darwinism tested by the Science of Language," I had said: —

"It is not very creditable to the students of the Science of Language that there should have been among them so much wrangling as to whether that science is to be treated as one of the natural or as one of the historical sciences. They, if any one, ought to have seen that they were playing with language, or rather that language was playing with them, and that unless a proper definition is first given of what is meant by nature and by natural science, the pleading for and against the admission of the Science of Language to the circle of the natural sciences. may be carried on ad infinitum. It is, of course, open to anybody so to define the meaning of nature as to exclude human nature, and so to narrow the sphere of the natural sciences, as to leave no place for the Science of Language. It is also poseible so to interpret the meaning of growth that it becomes inapplicable alike to the gradual formation of the earth's crust. and to the slow accumulation of the Jumus of language. Let the definition of these terms be plainly laid down, and the controversy, if it will not cease at once, will at all events become more fruitful. It will then turn on the legitimate definition of such terms as nature and mind, necessity and free-will, and it will have to be determined by philosophers rather than by scholare. Unless appearances deceive us, it is not the tendency of modern philosophy to isolate human nature, and to separate it by impassable harriers from nature at large, but rather to discover the bridges which lend from one bank to the other, and to lay lare the hidden foundations which, deep beneath the surface, connect the two opposite shores. It is, in fact, easy to see that the old mediaval discussions on necessity and free-will are turning up again in our own time, though slightly disguised, in the discussions on the proper place which man holds in the realm of nature; may, that the same antinomies have been at the root of the controversy from the days when Greek philosophers maintained that language existed ofen or sion, to our own days, when scholars range themselves in two hostile camps, claiming for the Science of Language a place either among the physical or the historical branches of knowledge,"

And again: -

"At all events we should never allow ourselves to forget that, if we speak of languages as natural productions, and of the Science of Language as one of the natural sciences, what we chiefly wish to say is, that languages are not produced by the free-will of individuals, and that, if they are works of art, they are works of what may be called a natural or unconscious art—an art in which the individual, though he is the agent, is not a free agent, but checked and governed from the very first breath of speech by the implicit cooperation of those to whom his language is addressed, and without whose acceptance language, not belog understood, would cease to be language."

In the first lecture which I delivered at Strassburg, I dwelt on the same problem, and said:—

"There is, no doubt, is language a transition from the material to the spiritual; the raw material of language belongs to nature, but the form of language, that which really makes language, belongs to the spirit. Were it possible to trace human language directly back to natural sounds, to interjections or imjtations, the question whether the Science of Language belongs to the sphere of the natural or the historical sciences would at once he solved. But I doubt whether this crude view of the origin of language counts one single supporter in Germany. With one foot language stands, no doubt, in the realm of nature, but with the other in the realm of spirit. Some years ago, when I thought it necessary to bring out as clearly as possible the much neglected natural element in language, I tried to explain in what sense the Science of Language had a right to be called the last and the highest of the natural sciences. But I need hardly say that I did not lose sight, therefore, of the intellectual and historical character of language; and I may here express my conviction that the Science of Language will yet enable us to withstand the extreme theories of the evolutionists, and to draw a hard and fast line between spirit and matter, between man and bente."

Professor Whitney will see, therefore, that all that can be said and be justly said, against treating the Science of Language as a purely physical science was not so new to me as he expected; nay, his friends might possibly tell him that the pro's and con's of this question had been far more fully and fairly weighed before his own lectures were published than afterwards. A writer on this subject, if he wishes to win now laurels, must do more than farbish up old weapons, and fight against monsters which owe their existence to nothing but his own heated imagination.

IS GLOTTOLOGY A SCIENCE !

His knowledge of the German language ought to have kept Professor Whitney from an insinuation that I had claimed for Glottology a place among the physical sciences, because I feared that otherwise the title of "science" would be altogether denied to my researches. Now whatever artificial restriction may have been forced on the term "science" in English and American, the corresponding term in German, Wissenschaft, has, as yet, resisted all such violence, and it was as a German that I ventured to call Sprashwissenschaft by its right name in English, and did not hesitate to speak even of a Science of Mythology, a Science of Religion, and a Science of Thought.

Finally, as to my wishing to smuggle in Glottology, and to secure for it at least some small corner in the circle of the Physical Sciences, I am afraid I cannot lay claim to such modesty. When at the meeting of the British Association at Oxford in 1847, Bunsen claimed the establishment of a separate acc-

tion for Ethnology, he said : -

[&]quot;If man is the apex of creation, it seems right on the one side, that a historical inquiry into his origin and development

should never be allowed to sever itself from the general body of natural science, and, in particular, from physiology. But on the other hand, if man is the apex of creation, if he is the end to which all organic formations tend from the very beginning; if man is at once the mystery and the key of natural science; if that is the only view of natural science worthy of our age, then ethnologic philology, once establishes worthy of our age, then ethnologic philology, once establishes bounch of that science for the advancement of which this Association is instituted. It is not an appendix to physiology or to anything else; but its object is, on the contrary, capable of becoming the end and goal of the labors and transactions of a scientific association."

These words of my departed friend express better than anything which I can say, what I meant by chaining for the Science of Language and the Science of Man, a place among the physical sciences. By enlarging the definition of physical science so as to make it comprehend both Anthropology and Glottology, I thought I was claiming a wider scope and a higher dignity for physical science. The idea of calling language a vegetable, in order to smuggle it through the toll-bar of the physical sciences, certainly never entered my mind.

When one remembers how since 1847, man has become the central point of the discussions of the British Association year after year, Bunsen's words sound almost prophetic, and it might have been guessed, even in America, that the friend and pupil of Bunsen was not likely to abute much in his claims for the recognition of the Science of Man, as the highest of all sciences.

Have I done? Yes, I believe I have answered all that required an answer in Mr. Darwin's article, in Professor V-hitney's new attack in the "Contemporary Review," and in his Lectures. But alas! there is still a page bristling with challenges. Have I read not only his lectures, but all his controversial articles? No. Then I ought.

Have I quoted any passage from his writings to prove that the less he has thought on a subject, the louder he speaks? No. Then I ought.

Have I produced any proof that he wonders that no one answers his strictures? No. Then I ought.

He actually appeals to my honor. What can I do? I cannot say that I have since read all his controversial articles, but I have read a considerable number, and I frankly confess that on many points they have raised my opinion of Professor Whitney's acquirements. It is true, he is not an original worker, but he is a hard reader, and a very smart writer. The gall of bitterness that pervades all his writings, is certainly painful, but that concerns him far more than us.

LANGUAGE AND THOUGHT INSEPARABLE.

First then, I am asked to explain what I meant by saying that Professor Whitney speaks the londest on subjects on which he has thought the least. I could best explain my meaning, if I were to collect all that Professor Whitney has written on the relation of language to thought. He certainly grows most boisterous in these latitudes, and yet he evidently has never, as yet, read up that subject, may, he seems convinced that what has been written on it by such dreamers as Locke, Schelling, Hegel, Humboldt, Schopenhauer, Mansel, and others, deserves no consideration whatever. To maintain, what every one of these philosophers maintains, that a conception cannot be entertained without the support of a word, would be, according to the Yale Professor, the sheerest folly (p. 125), - "part of that superficial and

unsound philosophy which confounds and identifies

speech, thought, and reason" (p. 439).

I can quite enter into these feelings, for I can still remember the mental effort that is required in order to surrender our usual view of language, as a mere sign or instrument of thought, and to recognize in it the realization of all conceptual thought. A mere dictionary would, no doubt, seem the best answer to those who hold that thought and language are inseparable, and to throw a stont Webster at our head might be considered by many as good a refutation of anch sheer folly, as a slap in the face was supposed to be of Berkeley's idealism. However, Professor Whitney is an assiduous reader, and I do not at all despair that the time will come when he will see what these thinkers really mean by conceptual thought and by language, and I am quite prepared to hear him say that " he had known all that long ago, that any child knew it, that it was mere bathos, and that it was only due to a want of clear and definitive expression, or to a want of knowledge of English, excusable in a foreigner, if there had been so much darkening of counsel by words without thought." I shall then be told that : -

"I consulted excellent authorities, and I worked these up with a commendable degree of industry, but that I am wanting in the inner light . . . and have never gained a comprehension of the movements that go on in my own mind, without which real insight into the relation of language to thought is imposible " (p. 268).

PROFESSOR PRANTL ON THE REPORM OF LOGIC.

In order to accelerate that event, may I advise Professor Whitney to read some articles lately published by Professor Prantl? Professor Prantl is facile princeps among German logicians, he is the author of the "History of Logic," and therefore perhaps even the American Professor will not consider him, as be does others who differ from him, as quite ignorant of the first rules of logic! At the meeting of the Royal Academy at Munich, March 6, 1875, Professor Prantl claimed permission, after having finished his "History of Logic," to lay some thoughts for the "Reform of Logic," before the members of that Academy, the very fundamental principle of that reform being

The essential unity of thought and language.

"Realized thought, or what others might call the realization of the faculty of thought, exists therefore is language only, and vice versă, every element of language contains thought. Every kind of priority of real thought before its expression in language, is to be denied, as well as any separate existence of thought" (p. 181).

"In one sense I should not dony that there is something in animals which in a very high degree of elevation is called language in man. In recognition of the distance produced by this high degree of elevation, one can agree with Max Muller, that language is the true frontier between brute and man" (p. 168).

Or, if the Yale Professor wants a more popular treatment of the subject, he might read Dr. Loewe's essay on "The Simultaneity of the Genesia of Speech and Thought," also published this year. Dr. Loewe, too, avails himself gladly of the new results obtained by the Science of Language, and shows clearly that the origin of thought is the origin of language.

Every one who has to write on philosophical subjects in English, German, and French, or who has to superintend translations of what he has written into other languages, must know how difficult it is to guard always against being misunderstood, but a reader familiar with his subject at once makes allowance for this; he does not raise clouds of dust for nothing. Observe the difference between some criticisms passed on what I had said, by Dr. Loewe, and by others. I had said in my Lectures (ii. 82):—

"It is possible, without language, to see, to perceive, to stare at, to dream about things; but, without words, not even such simple ideas as white or black can be for a moment realized."

My German translator had rendered ideas by Vorstellungen, while I used the word in the sense of concept, Begriff. Dr. Loewe in commenting on this passage says:—

"If M. M. maintains that Vorstellungen, such as white and black, cannot be realized for a moment without words, he is right, but only if by Vorstellung he means Begriff. And this is clearly his meaning, because shortly before he had insisted on the fact that it was conceptual thought which is impossible without words. Were we to take his words literally, then it would be wrong, for sensuous images (Sinneshilder), such as white and black, do not require words for their realization. One glance at the psychical life of animals would suffice to prove that sensuous representation (Vorstellen) can be carried out without language, for it is equally certain that animals have sensuous images as that they have no words."

This is the language of a well-schooled philosopher, who cares for truth and not for controversy, a tout priz. Let us contrast it for a moment with the language of Professor Whitney (p. 249):—

a This may be taking a very high view of language; it certainly is taking a very low view of reason. If only that part of man's superior endowments which finds its manifestation in language is to receive the name of reason, what shall we style the rest? We had thought that the love and intelligence, the soul, that looks out of a child's eyes upon us to reward our care and before it begins to prattle, were also marks of reason," etc. This is a pretty domestic idyl, but the marvelous confusion between conceptual thought and the inarticulate signs of the affections, will, I fear, remind logicians of infantine prattle with no mark of reason about it, rather than of scientific argument.

It is quite clear, therefore, from this single specimen, that it would be impossible to argue with Professor Whitney on this subject. He returns to it again and again, his language grows stronger and stronger every time, yet all the time he speaks like a man whom nothing shall convince that the earth does move. He does not even know that he might have quoted very great authorities on his side of the question, only that they, knowing the bearings of the whole problem, speak of their antagonists with the respect due say by Nyaya to a Sankhya philosopher, not with the contempt which a Brahman feels for a Mlekkha.

GRAMMATICAL BLUNDERS.

But let us take a subject where, at all events, it is possible to argue with the Professor—I mean Sanskrit Grammar—and we shall see again that he is most apodictic when he is least informed. He has criticised the first volume of my translation of the Rig-Veda. He dislikes it very much, and gives me very excellent advice as to what I ought to have done and what I ought not. He thinks I ought to have thought of the large public who want to know something of the Veda, and not of mere scholars. He thinks that the hymns addressed to the Dawn would have pleased the young ladies better than the hymns to the Stormgods, and he broadly hints that all the pièces justificatives which I give in my com-

mentary are de trop. A translation, such as Langlois', would, no doubt, have pleased him best. I do not object to his views, and I hope that he or his friends may some day give us a translation of the Rig-Veda, carried out in that spirit. I shall devote the remaining years of my life to carrying on what I ventured to call and still call the first traduction raisonnée of the Veda, on those principles which, after mature reflection. I adopted in the first volume, and which I still consider the only principles in accordance with the requirements of sound scholarship, The very reason why I chose the hymns to the Maruts was because I thought it was high time to put an end to the mere trifling with Vedic translation. They are, no doubt, the most difficult, the most rugged, and, it may be, the least attractive hymns, but they are on that very account an excellent introduction to a scholarlike study of the Veda, Mere guessing and skipping will not avail us here. There is no royal road to the discovery of the meaning of difficult words in the Veda. We must trace words of doubtful meaning through every passage where they occur, and we must give an account of their meaning by translating every passage that can be translated, marking the rest as, for the present, untranslatable. Boehtlingk and Roth's excellent Dietionary is the first step in that direction, and a most important step. But in it the passages have only undergone their first sifting and classifying; they are not translated, nor are they given with perfect completeness. Now if one single passage is left out of consideration in establishing the meaning of a word, the whole work has to be done again. It is only by adopting my own tedions, it may be, but

exhaustive method that a scholar may feel that whatever work he has done, it is done once for all.

On such questions, however, it is easy to write a great deal in general terms; though it is difficult to say anything on which all competent scholars are not by this time fully agreed. It is not for me to gainsay my American critic that my renderings into English, being those of a foreigner, are tame and spiritless, but I doubt, whether in a new edition I shall change my translation, "the lights in heaven shine forth," for what the American Professor suggests: "a sheen shines out in the sky," or "gleams glimmer in the sky."

All this, however, anybody might have written after dinner. But once at least Professor Whitney, Professor of Sanskrit in Yale, attempts to come to close quarters, and ventures on a remark on Sanskrit grammar. It is the only passage in all his writings, as far as I remember, where, instead of indulging in mere sheet lightning, he comes down upon me with a crashing thunderbolt, and points out a real grammatical blunder. He says it is—

"An extremely violent and improbable grammatical process to render pari tasthushas, as if the reading were paritasthivassas. The participal form tasthushas has no right to be anything but an accusative plural, or a genitive or ablative singular; let us have the authority for making a nominative plural of it, and treating pari as its prefix, and better authority than the mere dictum of a Hindu grammarian."

Those who are acquainted with Vedic studies know that Professor Benfey has been for years preparing a grammar of the Vedic dialect, and, as there is planty of work for all workers, I purposely left the grammatical questions to him, confining myself in

my commentary to the most necessary grammatical remarks, and giving my chief attention to the meaning of words and the poetical conceptions of the ancient poets. If the use of the accusatival form tasthushas, with the sense of a nominative, had been confined to the Veda, or had never been remarked on before, I ought, no doubt, to have called attention to it. But similar anomalous forms occur in Epic literature also, and more than that, attention had but lately been called to them by a very eminent Dutch scholar, Dr. Kern, who, in his translation of the Brihat-Samhitâ, remarks that the ungrammatical nom, plur, vidushas is by no means rure in the Mahabharata and kindred works. If Professor Whitney had only read as far as the eleventh hymn in the first book of the Rig-Veda, he would have met there in abibhyushas an undoubted nom. plur. in ushas: -

> tvám deváh úbibhyushah tagyámánássá ávishah, The gods, stirred up, came to thee, not fearing.

Now, I ask, was I so far wrong when I said that Professor Whitney speaks loudest when he knows least, and that in charging me, for once at least, with a tangible blunder, he only betrayed his ignorance of Sanskrit grammar? In former times a scholar, after such a misfortune, would have taken a vow of silence or gone into a monastery. What will Professor Whitney do? He will take a vow of speech, and rush into a North American Review.

HARD AND SOFT.

There are other subjects to which Professor Whitney has of late paid much more attention than to Sanskrit Grammar, and we shall find that on them he argues in a much gentler tone.

It is well known that Professor Whitney held curious views about the relation of vowels to consonants, and I therefore was not surprised to hear from him that "my view of the essential difference between vowels and consonants will not bear examination." He mixes up what I call the substance (breath and voice) with the form (squeezes and checks), and forgets that in rerum natura there exist no consonants except as modifying the column of voice and breath, or as what Hindu grammarians call vyangana, i. e., determinants; and no vowels except as modified by consonants. In order to support the second part of this statement, viz., that it is impossible to pronounce an initial vowel without a alight, and to many hurdly perceptible, initial noise, the coup de la glotte, I had appealed to musicians who know how difficult it is, in playing on the flute or on the violin, to weaken or to avoid certain noises (Ansatz) arising from the first impulses imparted to the air, before it can produce really musical sensations. Professor Whitney, in quoting this paragraph, leaves out the sentence where I say that I want to explain the difficulty of pronouncing initial vowels without some spiritus lenis, and charges me with comparing all consonants with the unmusical noises of musical instruments. This was in 1866, whereas in 1854 I had said: "If we regard the human voice. as a continuous stream of air, emitted as breath from the lungs and changed by the vibration of the charder vocales into vocal sound, as it leaves the larynx, this stream itself, as modified by certain positions of the mouth, would represent the vowels. In the consonants, on the contrary, we should have to recognize a number of stops opposing for a moment the free

passage of this vocal air." I ask any scholar or lawyer, what is one to do against such misrepresentations? How is one to qualify them, when to call them unintentional would be nearly as offensive as to call them intentional?

The greatest offense, however, which I have committed in his eyes is that I revived the old names of hard and soft, instead of surd and sonant. Now I thought that one could only revive what is dead, but I believe there is not a single scholar alive who does not use always or occasionally the terms hard and soft. Even Professor Whitney can only call these technical terms obsolescent; but he thinks my influence is so omnipotent that, if I had struck a stroke against these obsolescent terms, they would have been well nigh or quite finished. I cannot accept that compliment. I have tried my strokes against much more objectionable things than hard and soft, and they have not yet vanished. I know of no living philologist who does not use the old terms hard and soft, though everybody knows that they are imperfect. I see that Professor Pott 1 in one passage where he uses sonant thinks it necessary to explain it by soft. Why, then, am I singled out as the great criminal? I do not object to the use of surd or sonant. I have used these terms from the very beginning of my literary career, and as Professor Whitney evidently doubts my word, I may refer him to my Proposals, submitted to the Alphabetic Conferences in 1854. He will find that as early as that date, I already used sonant, though, like Pott, I explained this new term by the more familiar soft. If he will appeal to Professor Lepsius, he will hear how,

¹ Ligandogiana Ferschanges, 1871, p. 78, tonnale, d. A. welche.

even at that time, I had translated for him the chapters of the Pratisakhyas, which explain the true structure of a physiological alphabet, and ascribe the distinction between k and g to the absence and presence of voice. I purposely avoided these new terms, because I doubted, and I still doubt, whether we should gain much by their adoption. I do not exactly share the misgivings that a surd mute might be mistaken for a deaf and dumb letter, but I think the name is awkward. Voiced and voiceless would seem much better renderings of the excellent Sanskrit terms ghoshavat and aghosha, in order to indicate that it is the presence and absence of the voice which causes their difference. Frequent changes in technical terms are much to be deprecated,1 particularly if the new terms are themselves imperfect.

Every scholar knows by this time what is meant by hard and soft, viz., voiceless and voiced. The names hard and soft, though not perfect, have, like most imperfect names, some kind of excuse, as I tried to show by Czermak's experiments. But while a good deal may be said for soft and hard, what excuse can be pleaded for such a term as media, meaning originally a letter between the Psila and the Dasca? Yet, would it be believed that this very term is used by Professor Whitney on the page following immediately after his puritanical sermon against my backslidings!

This gentle sermon, however, which Professor Whitney preaches at me, as if I were the Pope of Comparative Philologists, is nothing compared with what follows later. When he saw that the difference between voiced and voiceless letters was not so novel

¹ See p. 248.

² Lectures, vol. il. p. 157.

to me as he had imagined, that it was known to me even before I published the Prātisākhya, — may, when I had told him that, to quote the words of Professor Brücke, the founder of scientific phonetics, —

"The medias had been classed as sound in all the systems elaborated by the students of language who have studied comparative phonology,"

he does not heaitate to write as follows : -

"Professor Miller, like some other students of philology (who except Professor Whitney himself?) finds himself unable longer to resist the force of the arguments against hard and soft, and is convinced that surd and somet are the proper terms to use; but, instead of frankly abandoning the one, and accepting the other in their place, he would fain make his beavers believe that he has always held and taught as he now wishes he had done. It is either a case of disingenuousness or of remarkable self-deception: there appears to be no third alternative."

I call this a gentle reproof, as coming from Professor Whitney; but I must say at the same time that I seldom saw greater daring displayed, regardless of all consequences. The American captain sitting on the safety-valve to keep his vessel from blowing up, a nothing in comparison with our American Professor. I have shown that in 1854 the terms surd and sonant were no novelty to me. But as Professor Whitney had not yet joined our ranks at that time, he might very properly plead ignorance of a paper which I myself have declared antiquated by what I had written afterwards on the same subject. But will it be believed that in the very same lecture which he is criticising, there occurs the following passage (ii. p. 156:-

"What is it that changes k into g, a into d, p into b? B is called a modia, a soft letter, a sonant, in opposition to P, which is called a tenuis, a hard letter, or a surd. But what is meant by these terms? A tenuis, we saw, was so called by the Greeks. in opposition to the aspirates, the Greek grammarians wishing to express that the aspirates had a rough or shaggy sound, whereas the tennes were bald, slight, or thin. This does not help us much. Soft and hard are terms which, no doubt, express an outward difference of b and p, but they do not explain the cause of that difference. Surd and amount are upt to mislead; for it, according to the old system both p and b continue to be classed as mute, it is difficult to see how, taking words in their proper sense, a mute letter could be sonant. . . . Both p and b are momentary negations of breath and voice; or, as the Hindu grammarians say, both are formed by complete contact. But b differs from p in so far as, in order to pronounce it, breath must have been changed by the glottis into voice, which voice, whether loud or whispered, partly precedes, partly follows the check."

And again: -

"But although the hardness and softness are secondary qualiities of tennes media, of surd and sonant letters, the true physiological difference between p and b, t and d, k and g, is that in the fermer the glottis is wide open, in the latter narrowed, so as to produce either whispered or loud voice."

In my introduction to the "Outline Dictionary for Missionaries," published in 1867, I wrote: —

"Unfortunately, everybody is so familiar with his alphabet, that it takes some time to convince people that they know next to nothing about the true nature of their letters. Take even a scholar, and ask him what is T, and he may possibly say, a dental teanis; ask him what is D, and he may possibly say, a dental teanis; ask him what he really means by a tennis or media, or what he considers the true difference between T and D, and he may probably say that T is hard and D is soft; or that T is sharp and D is flat; or, on the contrary, as some writers have actually maintained, that the sound of D requires a stronger impulse of the tongue than the sound of T: but we shall never get an answer that goes to the root of the matter, and lars hold of the mainspring and prime cause of all these secondary distinctions between T and D. If we consult Professor Heliaholtz on the same subject, he tells us that 'the series of so-called

mediae, b, d, g, differs from that of the tunnes, p, t, k, by this, that for the former the glottis is, at the time of consequental opening, sufficiently narrowed to enable it to sound, or at least to produce the noise of the real circultural, or whisper, while it is wide open with tenues, and therefore unable to sound. Media are therefore accompanied by the tone of the voice, and this may even, where they begin a syllable, set in a moment before, and where they end a syllable, continue a moment after the opening of the month, because some air may be driven into the closed cavity of the month, and support the sound of the woral chords of the laryex. Because of the narrowed glotis, the rush of the air is more moderate, the noise of the air less sharp than with the tenuic, so that a great mass of air may rush at once from the chest."

"This to many may seem strange and hardly intelligible. But if they find that, several centuries before our era, the Indian grammarians gave exactly the same definition of the difference between p, t, k, and b, d, g, such a coincidence may possibly startle them, and lead them to inquire for themselves into the working of that wonderful instrument by which we produce the various sounds of our alphabet."

If Professor Whitney asserts -

"That I repeatedly will not allow that the sonant letters are intonated, but only that they may be intonated,"

I have no answer but a direct negative. For me to say so, would be to run counter to all my own teaching, and if there is anywhere a passage that would admit of such a construction. Professor Whitney knows perfectly well that this could be due to nothing but an accidental want of precision in expressing myself. I know of no such passage.

i Having still that hand of faith left, that a man could not willfally my a thing which he knows to be untrue, I booked again at every passage where I have dwelt on the difference between self and hard communants, and I thick I may have found the passage which Professor Whitney grasped at, when he thought that I knew nothing of the difference between valced and voiceless letters, until he had orlightened me on the ambject. Speaking of letters, not as things by themselves, but as acts, I cometimes speak vot. IV. 22

In order to leave no doubt as to the real distinction between k, t, p and g, d, b, I quoted, for the satisfaction of Sanskrit scholars, the technical terms by which native grammarians define so admirably the process of their formation, the vah vapravatna, viz., vivarasvasaghoshah, and samvaranadaghoshah. Would it be believed that Professor. Whitney accuses me of having invented these long Sanakrit terms, and to have appended them superfluously and pedantically, as he says, to each list of synonyms? "They are found in no Sanskrit grammarian," he says. Here again I have no answer but a direct negative. They are found in the native communtary on Pâzini's Grammar, in Boehtlingk's edition, p. 4, and fully explained in the Mahabhashyn.

If one has again and again to answer the assertions of a critic by direct negatives, is it to be wondered at that one rather shrinks from such encounters? I have for the last twenty years discussed these phonetic problems with the most competent authorities. Not trusting to my own knowledge of physiology and acoustics, I submitted everything that I had written

of the process that produces the hard communit first, and then go on to any that it can be velocit, and be made soft. Thus when spenking of a mil z, I say, the former is completely surd, the latter capable of infoncion, and the same expression occurs again. Could Professor Walting have thought that I meant to say that z was only equable of intonation, but was not necessarily intonated? I believe he slid, for it is with regard to and z that, as I see, he says, "It is z marred to find man like Max-Miller, in his last lectures about language, who still cling to the old view that z z, for instance, differen from a primarily by inferior force of utterance." Now, I admit that my expression, "capable of intenation," signife to missionlessessed, and might have misled a more tire to the smallers, who still that passage, without reading anything before or after. But that a professor in an American university could have taken my words in that sense is to me. I canfees, a parale, call it intellectual or metal, as yet like.

on the alphabet, before it was published, to the approval of such men as Helmholtz, Alexander Ellis, Professor Rolleston, and I hold their vu et approuvé. I had no desire, therefore, to discuss these questions mew with Professor Whitney, or to try to remove the erroneous views which, till lately, he entertained on the structure of a physiological alphabet. I believe Professor Whitney has still much to learn on this subject, and as I never ask anybody to read what I myself have written, still less to read it a second time, might I suggest to him to read at all events the writings of Brücke, Helmholtz, Czermak, to say nothing of Wheatstone, Ellis, and Bell, before he again descends into this arena? If he had ever made an attempt to master that one short quotation from Brücke, which I gave on p. 159, or even that shorter one from Czermak, which I gave on p. 143 :-

"Die Reibungslaute zerfallen genan so wie die Verschlasslaute in weiche oder steende, bei denen das Stimmritzungerausch oder der laute Stimmton mithuter, und in harre oder tonlose, bei denen der Kehlkepf absolut still ist."

the theory which I followed in the classification both of the Checks and the Breathings would not have sounded so unintelligible to him as he says it did; he would have received some rays of that inner light on phonetics which he misses in my Lectures, and would have seen that besides the disingenuousness or the self-deception which he imputes to me, in order to escape from the perplexity in which he found himself, there was after all a third alternative, though he denies it, viz., his being unwilling to confess his own by paties.

FIR, OAK, BEECH.

I now proceed to the next charge. I am told that I am in honor bound to produce a passage where Professor Whitney expressed his dissatisfaction at not being answered, or, as I had ventured to express it, considering the general style of his criticism, when he is angry that those whom he abuses, do not abuse him in turn. He is evidently conscious that there is some elight foundation for what I had said, for he says that if Steinthal thought he was angry, because "he (Mr. William Dwight Whitney) and his school" had not been refuted, instead of philosophers of the last century, he was mistaken. Yet what can be the meaning of this sentence, that " Professor Steinthal ought to have confronted the living and aggressive views of others," i. e., of Mr. William Dwight Whitney and his school ? (p. 865.)

However, I shall not appeal to that; I shall take a case which, in this tedious process of incrimination and recrimination, may perhaps revive for a moment

the flagging interest of my readers.

I had in the second volume of my Lectures called attention to a curious parallelism in the changes of meaning in certain names of trees and in the changes of vegetation recorded in the strata of the earth. My facts were these, Foraha in Old High German, Föhre in modern German, furk in Anglo-Saxon, fir in English, signify the pinus silvestris. In the Lombard Laws the same word fercha means oak, and so does its corresponding word in Latin, quercus.

Secondly, \$\phi_{\eta\gamma}\delta\

means beech.

That is to say, in certain Aryan languages we find

words meaning fir, assuming the meaning of oak; and words meaning oak, assuming the name of beech.

Now in the North of Europe geologists find that a vegetation of fir exists at the lowest depth of peat deposits; that this was succeeded by a vegetation of oak, and this by a vegetation of beech. Even in the lowest stratum a stone implement was found under a

fir, showing the presence of human beings.

Patting these two sets of facts together, I said: Is it possible to explain the change of meaning in one word which meant fir and came to mean oak, and in another which meant cak and came to mean beech, by the change of vegetation which actually took place in early ages? I said it was an hypothesis, and an hypothesis only. I pointed out myself all that seemed doubtful in it, but I thought that the changes of meaning and the parallel changes of vegetation required an explanation, and until a better one could be given, I ventured to suggest that such changes of meaning were as the shadows cast on language by real, though prehistoric, events.

I asked for an impartial examination of the facts I had collected, and of the theory I had based on them-What do I receive from Professor Whitney? I must quote his *ipsissima verba*, to show the spirit that per-

vades his arguments: -

"It will not be difficult," he says, "to graffly our author by refuting his hypothesis. Not the very slightest shade of plansibility, that we can discover, belongs to it. Besides the serious minor objections to which it is liable, it involves at least three impossible suppositions, either one of which ought to be enough to insure its rejection.

"In the first place it assumes that the indications afforded by the peat-logs of Denmark are conclusive as regards the condition of Europe — of all that part of it, at least, which is occurpied by the Germanic and Italic races; that, throughout this whole region, fire, oaks, and beechns have supplanted and succeeded each other, notwithstanding that we find all of them, or two of them, still growing peaceably together in many countries."

Here Professor Whitney is, as usual, ploughing with my beifer. I said:—

"I must leave it to the geologist and botanist to determine whether the changes of vegetation as described above, took place in the same rotation over the whole of Europe, or is the North only."

I had consulted several of my own geological friends, and they all told me that there was, as yet, no evidence in Central Europe and Italy of a succession of vegetation different from that in the North, and that, in the present state of geological science, they could say no more. In the absence of evidence to the contrary, I said, Let us wait and see; Professor Whitney says, Don't wait.

His second objection is his own, but hardly worthy of him.

"The hypothesis," he says, "assumes that the Germanic and Italic races, while they knew and named the fir-tree only, yet kept by them all the time, laid up in a napkin, the original term for oak, ready to be turned into an appellation for beech, when the oaks went out of fashion."

This is not so. The Aryan nations formed many new words, when the necessity for them arose. There was no difficulty in framing ever so many names for the oak, and there can be little doubt that the name oxyos was derived from days, the oak tree being called dryos, because it supplied food or mast for the cattle. If there remained some conscionsness of this meaning among the Greeks, and the Italians, and Germans, then the transference of the name from the oak to the beech would become still more easily intelligible, be-

cause both the beech-nnts and the acorns supplied the

ordinary must for cattle.

Professor Whitney probably had misgivings that these two objections were not likely to carry much weight, so he adds a third.

"The hypothesis," he says, "implies a method of transfer of names from one object to another which is totally inadmissible; this, namely - that, as the forest of fire gave way to that of onks, the meaning of fir in the word quereus gave way to that of oak; and in like manner in the other case. Now if the Latina had gone to sleep some fine night under the shade of their majortie oaks, and had waked in the morning to find themselves putalen sub termine fagi, they might naturally enough have twen lad, in their bewilderment, to give the old name to the new tree. But who does not see that, in the slow and gradual process by which, under the influence of a change of climatic conditions, one species of tree should come to prevail over another, the supplanter would not inherit the title of the supplanted, but would acquire one of its own, the two subsisting together during the period of the struggle, and that of the supplanted going out of nes and memory as the species it designated disappeared? 23

This objection was of course so obvious that I had thought it my duty to give a number of instances where old words have been transferred, not per saltum, but slowly and gradually, to new objects, such as sousket, originally a dappled sparrow-hawk, after-Other instances might have been wards a gun. added, such as barra, the Sanskrit dah, the latter meaning to burn, the former to bury. But the best illustrations are unintentionally offered by Professor Whitney himself. On p. 303 he alludes to the fact that the names robin and blackbird have been applied ir America, for the sake of convenience, and under the government of old associations, to birds essentially unlike, or only superficially like, those to which they belong in the mother country. Of course, every

Englishman who settled in America knew that the bird he called robin was not the old Robin Redbreast he knew in England. Yet the two names co-existed for a time in literature, nay, they may still be said to co-exist in their twofold application, though, from a strictly American point of view, the supplanting American bird has inherited the title of the sup-

planted Cock-Robin of England.

Now, I ask, was there anything in these three cheap objections that required an answer? Two of them I had myself fully considered, the third was so flimsy that I thought no one would have dwelt on it. Anyhow, I felt convinced that every reader was competent to judge between Professor Whitney and myself, and it certainly never entered my mind that I was in honor bound, either to strike out my chapter on the Words for Fir, Oak, and Besch, or to fight.

Was I then so far wrong when I said that Professor Whitney cannot understand how anybody could leave what he is pleased to call his arguments, unheeded? Does he not express his surprise that in every new edition I adhere to my views on Fir, Oak, and Beech, though he himself had told me that I was wrong, and when he calls my expressed desire for real criticism a mere "rhetorical flourish," is this, according to the opinion of American gentlemen, or is

it not, abuse?

EPITHETA ORNANTIA.

Professor Whitney's ideas of what is real criticism, and what is mere banter, personal abose, or rudeness are indeed strange. He does not seem to be aware that his name has become a by-word, at least in Eu-

rope, and he defends himself against the charge of abusiveness with so much ardor that one sometimes feels doubtful whether it is all the mere rhetoric of a bad conscience, or a case of the most extraordinary self-deception. He declares in so many words that he was never personal (Ich bestreite durchaus, dass seas ieli schrieb, im geringsten persönlich war), and he immediately goes on to say that "Steinthal burst a two from anger and rancor, and his answer was a mere outpouring of abuse against his personality."

Now I am the last person or personality in the world to approve of the tone of Steinthal's answer. and if Professor Whitney asks why I had quoted it several times in public, it was because I thought it ought to be a warning to others. I think that all who are interested in maintaining certain civilized usages even in the midst of war, ought to protest against such a return to primitive savagery, and I am glad to find that my friend, Mr. Matthew Arnold, one of the highest authorities on the rules of literary warfare, entertains the same opinion, and has quoted what I had quoted from Professor Steinthal's pamphlet, together with other specimens of theological rancor, as extreme cases of bad taste.

I frankly admit, however, that, when I said that Steinthal had defended himself with the same weapons with which his American antagonist attacked him, I said too much. Professor Whitney does not proceed to such extremities as Professor Steinthal. But giving him fall credit so far, I still cannot help thinking that it was a fight with poisoned arrows on one side, with clubs on the other. As Professor

· Whitney calls for proofs, here they are: -

Page 332. Why does he call Professor Steinthal, Ha'jim Steinthal ! Is that personal or not?

Page 325, "Professor Steinthal startles as I rebuffs a commonsense impires with a reply from a wholly different and upexpected point of view; as when you ask a physician, "Well, Doctor, how does your patient promise this morning?" and he answers, with a wise look and an oracular shake of the head, "It is not given to humanity to look into futurity." The effect is not destinute of the element of backer." Is that personal?

Page 237, Steinthal's mode of arguing is " more easy and

convenient than fair and ingenuous." Is that personal?

Page 238. "A mere verbal quibble."

Page 346. "The uninent psychologist may show himself a mere blunderer."

Page 336. "To our unpsychological apprehension, there is something monstrons in the very suggestion that a word is an act of the mind."

Page 357. "Prodigious Chaotic nebulosity We should not have supposed any man, at this age of the world, capable of punning the sentences we have quoted."

Page 259, "We are heartily fired of those comparisons that go limping along on one foot, or even on hardly the decent

stump of a foot,"

Page 363, "Can there be more after mockery than this? We sak for bread, and a stone is thrown us."

Page 365. "He does not take the slightest notice of the living and aggressive views of others."

Page 366. "All this, again, is in our opinion very verbiage, more turbid talk."

Page 367. "The statement is either a traism or falsity."

Page 372. "We must pronunce Professor Steinthal's attempt a complete failure, a more continuation of the same delusive reasonings by which he originally arrived at it."

Page 374. "We have found in his book nothing but mistaken

facts and erroneous deductions."

If that is the language in which Professor Whitney speaks of one whom he calls —

"An eminent master in linguistic science, from whom he has derived great instruction and enlightenment," and "whose books he has constantly had upon his table."

what can other poor mortals like myself expect? It is true he has avoided actionable expressions, while Professor Steinthal has not, at least, according to German and English law. But suppose that hereafter, when certain small animals have crossed what he calls "the impervious distance," and acquired the power of language, they were to say, "We have only string you, and you have killed us," would they obtain much commiseration?

I had collected a number of epitheta ornantia which I had gathered at random from Mr. Whitney's writings, such as worthless, futile, abourd, ridiculous, superficial, unround, high-flown, pretentious, disingenuous, false, and I claimed the honor of every one of them having been presented to me as well as to other scholars by our American assailant. Here, for the first time, Professor Whitney seems staggered at his own vocabulary. However, he is never at a loss how to escape. "As the epithets are translated înto German," he says, "he is quite unable to find the passages to which I may refer." This is feeble. However, without taxing his memory further, he says that he feels certain it must be a mistake, because he never could have used such language. He never in his life said anything personal, but criticised opinions only. This is "the language of simpleminded consciousness of rectitude."

What can I do? Professor Whitney ought to know his own writings better than I do, and nothing remains to me, in order to repel the gravest of all accusations, but to publish in the smallest type the following Spicilegium. I must add that in order to do this work once for all, I have complied with Professor Whitney's request, and read nearly all the articles with which he has honored every one of my writings, and in doing so I believe I have at last found the key to much that seemed to me before almost inexplicable.

Formerly I had simply acquiesced in the statement made by one of his best friends, Professor Weber,[‡] who, some ten years ago, when reproving Professor Whitney for the acrimony of his language, said:—

"I believe I am not wrong when I trace it to two causes: first, Professor Whitney found himself forced to acknowledge as erroneous and to withdraw several of his former views and assertions, which he had defended with great assurance, and this disturbed his equanimity; secondly, and still more, there were the miserable political circumstances of North America, which could not but exercise an irritating and galling effect on so warm a patriot as Whitney, an effect which was transferred unconsciously to his literary criticisms and polemics, whenever he felt inclined to it."

These two scholars were then discussing the question, whether the Nakshatras or the Lunar Zodiac of the Hindus, should be considered as the natural discovery of the Brahmans, or as derived by them, one knows not how, from China, from Chalden, or from some other unknown country. They both made great efforts, Professor Weber chiefly in Sanskrit, Professor Whitney in astronomy, in order to substantiate their respective opinions. Professor Weber showed that Professor Whitney was not very strong in Sanskrit, Professor Whitney retaliated by showing that Professor Weber, as a philologue, had attempted to prove that the precession of the equinox was from West to East, and not from East to West. All this, at the time, was amusing to bystanders, but by this time both combatants have probably found out, that the hypothesis of a foreign origin of the Nakshatras, whether Chinese or Babylonian, was uncalled 'or, or,

I failinks Station, x 450.

at all events, is as uncertain to-day as it was ten years ago. I myself, not being an antronomer, had been content to place the evidence from Sanskrit sources before a friend of mine, an excellent astronomer at Oxford, and after discussing the question again and again with him, had arrived at the conviction that there was no excuse for so violent a theory as postulating a foreign origin of the simple triseinadic division of the Nakshatra Zodiac. I quite admit timt my practical knowledge of astronomy is very small, but I do believe that my astronomical ignorance was an advantage rather than a disadvantage to me in rightly understanding the first glimmerings of astronomical ideas among the Hindus. Be that as it may, I believe timt at the present moment few scholars of repute doubt the native origin

I When I saw how M. Biot, the great astronomer, treated Professor Waber on hour an hor, because, in criticising Blod's spinion he had shown some ignorance of astronomy, I said, from a kind of fellow-feeling t "Weber's Essays are very creditable to the author, and hardly deserved the withering contempt with which they were treated by Blot. I duler from nearly all the conclusions at which Professor Weber arrives, but I admire his great diligence in collecting the necessary evidence." Upon this the American gratheman reads not the following lesson: First of all, I am told that my statement involves a gross error of fact; I sought to have said, Weber's Emay, not Henays, because one of them, and the need Important, was not published till after Bot's death. I accept the reproof, but I believe all whom it concerned how what Every I meant. But secondly, I am told that the epithet withering is only used by Americans when they intend to imply that, in their opinion, the subject of the emtempt is withered, or ought to be withered by it. This may be so in American, but I totally dary that it is so in English. "Withering contompt," in English, means, as far as I know, a kind of silly and arregant contempt, such, for instance, as Professor Whitney displays towards me and others, intended to annihilate us in the eyes of the public, but atterly armiess in its consequences. But let me ask the American critic what he genet when, speaking of Biot's trustment of Waber, he said, "Biot anight that Waber's opinious had been whifted away by him as if nosorthy of serious consideration. Does whiff every in America mean more or less than with crisq? What Professor Whitney should have objected to was the adverb hardly ; I wish I had said cir, et us sin qualens.

of the Nakshatras, and hardly one admits an early influence of Babylonian or Chinese science on India, I stated my case in the preface to the fourth volume of my edition of the Rig-Veda, and if anybody wishes to see what can be done by misrepresentation, let him read what is written there, and what Professor Whitney made of it in his articles in the "Journal of the American Oriental Society." His misunderstandings are so desperate, that he himself at times feels uneasy, and admits that a more charitable interpretation of what I wanted to say would be possible. When I saw this style of arguing, the utter absence of any regard for what was, or what might charitably be supposed to have been, my meaning, I made up my mind once for all, that that American gentleman should never have an answer from me, and in spite of strong temptation I kept my resolve till now. A man who could say of Lassen that his statements were "whally and reprehensibly incorrect," because -he said that Colebrooke had shown that the Arabs received their lunar mansions from the Hindus, was not likely to show mercy to any other German professor.

I find, however, by reading one of his Essays, that there is a more special reason why, in his repeated onshughts on me, both before and after the Rebellion, "he thinks he may dispense with the ordinary courtesies of literary warfare." I may tell it in his own

words: -

[&]quot;Some one (I may add the name, now, it was the late Professor Goldstücker) falls ficarely upon the work of a company of collaborators; they units in its defense; thereupon the aggressor reviles them as a mutual admiration society; and Miller repeats the accessation, giving it his own indersumer; and volunteering in addition that of mother schular.

I might possibly represent the case in a different light, but I am willing to accept the acte d'accusation as it comes from the hand of my accuser; nay more, I am quite ready to plead guilty to it. Only let me explain how I came to commit this great offense. What is here referred to must have happened more than ten years ago. Professor Goldstücker had critieised the Sanskrit Dictionary published by Professors Boehtlingk and Roth, and "the company of collaborators" had united in its defense, only, as Professor Whitney is authorized to assure us, "without any apparent or known concert." Professor Goldstücker was an old friend of mine, to whom in the beginning of my literary career at Berlin and in Paris, I was indebted for much personal kindness. He helped me when no one else did, and many a day, and many a night too, we had worked together at the same table, he encouraging me to persevers when I was on the point of giving up the study of Sanskrit altogether. When Professor Goldstücker came to England, he undertook a new edition of Wilson's "Sanskrit Diotionary," and he very soon became entangled in a controversy with "the company of collaborators" of another Sanskrit dictionary, published at the expense of the Russian Academy. I do not defend him, far from it. He had a weakness very common among scholars :- he could not bear to see a work praised peyond its real merits, and he thought it was his laty to set everything right that seemed to him wrong. He was very angry with me, because I would not join in his condemnation of the St. Petersburg dictionary. I could not do that, because, without beang blind to its defects, I considered it a most valuable performance, highly creditable to all its collabo-

rators; nay, I felt bound to say so publicly in England, because it was in England that this excellent work had been unduly condemned. This embittered my relations with Professor Goldstücker, and when the attacks by the company of collaborators on him grew thicker and thicker, while I was treated by them with the greatest civility, he persuaded himself that I had taken part against him, that I had in fact become a sleeping partner in what was then called the "International Praise Insurance Society." To show him once for all that this was not the case, and that I was perfectly independent of any company of collaborators, I wrote what I wrote at the time. Nor did I do so without having had placed before meseveral reviews, which certainly seemed to give to the old saying landari a viro landato a novel meaning. Having done what I thought I was bound to do for an old friend, I was perfectly prepared to take the consequences of what might seem a rash act, and when I was twitted with having done so anonymously, I, of course, thought it my duty to reprint the article, at the first opportunity, with my name. Now let it be borne in mind that one of the chief culprits, nay, as appeared afterwards, the most eager mischief-maker, was Professor Whitney himself, and let us now hear what he has to say. As if he himself were entirely unconcerned in the matter, instead of having been the chief culprit, he speaks of "cool effrontery;" " magisterial assumption, towards a parcel of naughty boys caught in their naughtiness;" "most discreditable;" " the epithet outrageous is hardly too strong." Here his breath fails him, and, fortunately for me, the climax ends. And this, we are naked to believe, is not lond and boisterous

but gentle and calm; it is in fact "the language of simple-minded consciousness of rectifude!"

These gentle onslaughts were written and published by Professor Whitney ten years ago. I happen to know that a kind of colportage was established to send his articles to gentlemen whom they would not otherwise have reached. I was told again and again, that I ought to put an end to these maneuvers, and yet, during all these years, I thought I could perfectly well afford to take no notice of them. But when after such proceedings Professor Whitney turns round, and challenges me before a public which is not acquainted with these matters, to produce any of the epitheta ornantia I had mentioned as having been applied by him to me, to Renan, to Schleicher, to Oppert, to Bleek, may, even to Bopp and Burnouf and Lassen, when with all "the simple-minded consciousness of rectitude " he declares, that he was never personal, then I ask, Could I remain silent any

How hard Professor Whitney is driven in order to fix any real blams on me, may be seen from what follows. The article in which the obnoxious passage which, I was told, deprived me of any claim to the amenities of literary intercourse occurs, had been reprinted in the "Indische Studien," before I reprinted it in the first volume of "Chips." In reprinting it myself, I had rewritten parts of it, and had also made a few additions. In the "Indische Studien," on the contrary, it had been reprinted in its original form, and had besides been disfigured by several inaccuracies or misprints. Referring to these, I had said that it had been, as usual, very incorrectly reprinted. Let

us hear what an American pleader can make out of

"In this he was too little miniful of the requirements of fair dealing; for he leaves any one who may take the trouble to ture to the 'Indische Studien,' and compare the version there given with that found among the 'Chips,' to infer that all the discordances he shall discover are attributable to Weber's incorrectness, whereas they are in fact mainly alterations which Müller has made in his own reprint; and the real inaccuracies are perfectly trivial in character and few in number — such primer's blundars as are rarely avoided by Germans who print English, or by English who print German. We should doubtless be doing Müller injustice if we maintained that he deliberately meant Weber to bear the odium of all the discrepancies which a comparer might find; but he is equally responsible for the result, if it is owing only to carclesances on his part,"

What will the intelligent gentlemen of the jury my to this? Because I complained of such blunders as alters being "construed," instead of "constructed," "enlightened" instead of "enlightened," "gratulate" instead of "congratulate," and similar inaccuracies, occurring in an unauthorized reprint of my article, therefore I really wanted to throw the odium of what I had myself written in the original article, and what was, as far as the language was concerned, perfectly correct, on Professor Weber. Can forensic ingenuity go further? If America possesses many such powerful pleaders, we wonder how life can be secure.

Having thus ascertained whence illæ lacrumæ, I must now produce a small bottle at least of the tears themselves which Professor Whitney has shed over me, and over men far better than myself, all of which, he says, were never meant to be personal, and most of which have evidently been quite dried up in his memory.

I begin with Bopp. "Although his mode if working is wonderfully genial, his vision of great acuteness, and his instinct a generally trustworthy guide, he is liable to wander far from the safe track, and has done not a little labor over which a broad and heavy mantle of charity needs to be drawn." (I. 208).

M. Renan and myself have "committed the very serious error of inverting the mutual relation of dialectic variety and uniformity of speech, thus turning topsy-turvy the whole history of linguistic development. . . . It may seem hardly worth while to spend any effort in refuting an opinion of which the fability will have been made apparent by the expection already given " (p. 172).

In mother place (p. 284) M. Rennn is told that his objection to the doctrine of a primitive Indo-European monosyllabism is noticed, not for any cogency which it possesses, but only on

account of the respectability of M. Renan.

Lassen and Burnouf, who thought that the geographical reminiscences in the first chapter of the Vendidad had a historical foundation, are told that their "claim is baseless, and even proposterous" (p. 201). Yet what Professor Whitney's knowledge of Zend must be, we may judge from what he says of Burnouf's literary productions. "It is well known," he says, "that the great French schular produced two or three builty volume only, "Communication sur la Yaçon," tense i., Paris, 1833, but that

may be due to my lamentable Iguscanne,

Professor Oppert simply exposes binaself in the somewhat ridiculous attitude of one who knocks down, with gestures of are and fright, a tramondate man of straw of his own erecting (I. 218). His erroneous assumptions will be received with most derisive incredulity (I. 221); the incoherence and nimbessaces of his reasonings (I. 223); an ill-considered thrade, a tissue of microprosentations of linguistic science (I. 227). He cannot impose upon me by his authority, nor attract us by his elequence: his present essay is as heavy in style, as hoose and vague in expression, unsound in argument, airogant in tone "(I. 238). The mative impacted to Professor Oppers in writing his Essay is that "the is a Jew, and wanted to stand up for the Shemites."

If Professor Opport is put down as a Shemite, Dr. Bleek is successed at as a German. "His work is written with much apparent profundity, one of a class, not quite unknown in Germany, in which a minimum of valuable truth is wrapped up in a maximum of sonating phrasology " (I. 292). Poor Germany catches it again on page 315. "Even, or especially in Germany," we are told, "many an able and acute scholar seems minded to indomnify himslef for dry and tedious grabhings among the roots and forms of Comparative Philology by the most siry ventures in the way of constructing Spanish eastles of linguistic science."

In his last work Professor Whitney takes credit for having at last rescued the Science of Language from the incongruities and

absurdities of European scholars.

Now on page 119 Professor Whitney very properly reproves another scholar, Professor Goldsticker, for having laughed at the German school of Vedic interpretation. "He compliasizes it," he says, "dwells upon it, reiterates it three or four times in a paragraph, as if there lay in the words themselves some potent argument. Any uninformed person would say, we are confident, that he was making an auworthy appeal to English prejudice against foreign men and foreign ways." Professor Whitney finishes up with charging Professor Goldstücker, who was himself a German —I beg my reader's pardon, but I am only quoting from a North American Review — with "fouling his own next." Professor Whitney, I believe, studied in a German university. Did he never hear of a 'cute little bird, who does to the next in which he was reared, what he says Professor Goldstücker did to his own?

Χαϊρό μοι, & Γάλδυτοκρε, από εἰν 'Αϊδαν δόμοιστο' Πάντα γάρ έδα τοι τελέα, τὰ πάροιδεν ἱπέστην.

Hacekel is called a headling Darwinian (I. 293), Schleicher is infected with Darwinism (I. 294), "be represents a false and hurtful tendency (I. 298), he is blind to the plainest truths, and employs a mode of reasoning in which there is neither logic nor common senses (I. 323). His essays are unsound, illogical, insens; but there are still incautious sciolists by whom every error that has a great name attached to it is liable to be received as pure truth, and who are ever specially attracted by good hearty paradoxes." (L. 330).

I add a few more references to the spitheta ornantia which I was charged with having invented. "Utter fatility" (p. 36); "meaningless and futile" (p. 152); "headloog materialist" (p. 153);

"better hamble and true (Whitney) than high-flown, pretentions, and false" (not-Whitney, p. 434); "simply and solely nonsense" (f. 255); "darkening of counsel by words without knowledge" (f. 255); "rhetorical talk" (f.725); "flourish of trumpets, lamentable (not to say) ridiculous failure" (f. 271).

What a contrast between the rattling discharges of these mitraillenses at the beginning of the war, and the whining and whimpering assurance now made by the American professor, that he never in his life said anything personal or offensive!

WHY I OUGHT NOT TO HAVE ANSWEBED.

Having taken the trouble of collecting these spent balls from the various battlefields of the American general, I hope that even Professor Whitney will no longer charge me with having spoken without book. As long as he cited me before the tribunal of scholars only, I should have considered it an insult to them to suppose that they could not, if they liked, form their own judgment. For fifteen years have I kept my fire, till, like a Chinese juggler, Professor Whitney must have imagined he had nearly finished my outline on the wall with the knives so skillfully nimed to miss me. But when he dragged me before n tribunal where my name was hardly known, when he thought that by catching the aura popularis of Darwinism, he could discredit me in the eyes of the leaders of that powerful army, when he actually got possession of the pen of the son, foully trusting it would carry with it the weight of the father, then I thought I owed it to myself, and to the cause of truth and its progress, to meet his reckless charges by clear rebutting evidence. I did this in my "Answer to Mr. Darwin," and as I did it, I did it thoroughly, leaving no single charge unanswered, however triffing. At the same time, while showing the unreasonableness of his denunciations, I could not help pointing out some serious errors into which Professor Whitney had fallen. Some thrusts can only be parried by a-tempo thrusts.

Professor Whitney, like an experienced advocate, passes over in silence the most serious faults which I had pointed out in his "Lectures," and after he has attempted — with what success, let others judge — to clear himself from a few, he turns round, and thinks it best once for all to deny my competency to judge him. And why?

"I do not consider Professor Miller capable of judgleg me justly," he says. And why? "Because I have felt moved, on account of his extraordinary popularity and the exceptional importance attached to his attorances, to criticise him more frequently than anybody else."

Is not this the height of forensic ingenuity? Because A has criticised B, therefore B cannot criticise A justly. In that case A has indeed nothing to do but to criticise B C D to Z, and then no one in the world can criticise him justly. I have watched many controversies, I have observed many stratagems and bold movements to cover a retreat, but nothing to equal this. Professor Pott was very hard on Professor Curtius, but he did not screen himself by denying to his adversary the competency to criticise him in turn. What would Newman have said, if Kingsley had tried to shut him up with such a remark, a remark really worthy of one literary combatant only the famous Pastor Goeze, the critic of Lessing?

What would even Professor Whitney think, if I were to say that, because I have criticised his "Leo-

tures," he could not justly criticise my "Sanskrit Grammar?" He might not think it good taste to publish an advertisement to dissuade students in America from using my grammar; he might think it unworthy of himself and dishonorable to institute comparisons, the object of which would be too transparent in the eyes even of his best friends in Germany. Mr. Whitney las lived too long in Germany not to know the saying, Man merkt die Absieht und man soird verstimmt. But should I ever say that he was incompetent to criticise my "Sanskrit Grammar" justly? Certainly not. All that I might possibly venture to say is, that before Professor Whitney undertakes to criticise my own or any other Sanskrit grammar, he should look at § 84 of my grammar, and practice that very simple rule, that if Visarga is preceded by a, and followed by a, the Visarga is dropt, a changed to a, and the initial yowel elided. If with this rule clearly impressed on his memory, he will look at his edition of the Atharva-Veda Pratisakhya, I. 33, then perhaps, instend of charging Hindu grammarians in his usual style with "opinions obviously and grossly incorrect and hardly worth quoting," he might discover that the MSS, for eke's prishtam, and that the proper translation was not that vowels are formed by contact, but that they are formed without contact. Instead of saying that none of the other Prafishkhyas favors this opinion, he would find the same statement in the Rig-Veda Prátisákhya, Sútra 719, page celxi of my edition, and he might perhaps say to himself, that before criticising Sanskrit grammars, it would be useful to learn at least the phonetic rules. I had

pointed out this slip before, in the second edition of my "Sanskrit Grammar;" but, as to judge from an article of his on the accent, Professor Whitney has not seen that second edition (1870), which contains the Appendix on the accent in Sanskrit, I beg leave to call his attention to it again.

WHY I OUGHT TO BE GRATEFUL.

I am glad to say that we now come to a more amusing part of this controversy. After I had been told that because I was attacked first, therefore I was not able to criticise Professor Whitney's writings justly, I am next told that I ought to be very grateful for having been attacked, may, I am told that, in my heart of hearts, I am really very grateful indeed, I must quote this passage in full:—

"During the last eight years I have repeatedly taken the opportunity accurately to examine and frankly to criticise the views of others and the arguments by which they were supported. I have done this more particularly against eminent and famous men whom the public has accustomed itself to regard as guides in matters referring to the Science of Language. What unknown and uncared for people say, is of no consequence whatever; but if Schleicher and Steinthal, Renan and Miller, teach what to me seems an error, and try to support it by proofs, then surely I am not only justified, but called upon to refute them, if I can. Among these students the last-named seems to be of different opinion. In his article, 'My Reply to Mr. Darwin,' published in the March number of the Dentsche Rumbehau, he thinks it necessary to read me a severe lecture on my presumption, although he also flatters me by the hint that my custom of criticising the most eminent men only is appreciated, and those whom I criticise feel honored by it."

I confess when I read this, I wished I had really paid such a pretty compliment to my kind critic, but looking through my article from beginning to end. I

find no hint anywhere that could bear so favorable an interpretation, unless it is where I speak of "the noble army of his martyrs," and of the untranslated remark of Phocion, which he may have taken for a compliment. In saying that it was acknowledged to be an honor to be attacked by him, Professor Whitney was, no doubt, thinking of the words of Ovid, Summa petunt dextra fulmina missa Jovis, and I am not going in future to deny him the title of the Jovial and Olympian critic, nor should I suggest to him to read the line in Ovid immediately preceding the one quoted. Against one thing only I must protest. Though the last named, I am surely not, as he boldly asserts, the only one of the four sommités struck by his Olympian thunderbolts, who have humbly declined too frequent a repetition of his celestial favors. Schleicher, no doubt, was safe, for alsa, he is dead! But Steinthal surely has uttered rather Promethean protests against the Olympian, -

Old for spaces and may found to blamme from Zelle ANN furne makeneys found to sufficiently forms with founds.

and as to M. Renan, does his silence mean more than —

Epol I Thereor Zards & patter peles

I confess, then, frankly that, in my heart of hearts, I am not grateful for these cruel kindnesses, and if he says that the other Serene Highnesses have been less ungrateful than I am, I fear this is again one of his over-confident assertions. My publishers in America may be grateful to him, for I am told that, owing to Professor Whitney's articles, much more interest in my works has been excited in America

than I could ever have expected. But I cannot help thinking that by the line of action he has followed, he has done infinite harm to the science which we both have at heart. In order to account somehow or other for his promisenous onslaughts, he now tells Mr. Darwin and his friends that in the Science of Language all is chaos. That is not so, unless Mr. Whitney is here using chaos in a purely subjective muse. There are differences of opinion, as there are in every living and progressive science, but even those who differ most widely, perfectly understand and respect each other, because they know that, from the days of Plato and Aristotle, men who start from different points, arrive at different conclusions, particularly when the highest problems in every sciences are under consideration. I do not agree with Professor Steinthal, but I understand him; I do not agree with Dr. Bleek, but I respect him; I differ most of all from Schleicher, but I think that an hour or two of private conversation, if it were possible still, would have brought us much nearer together. At all events, in reading any of their books, I feel interested, I breathe a new atmosphere, I get new ideas, I feel animated and invigorated. I have now tend nearly all that Professor Whitney has written on the Science of Language, and I have not found one single new fact, one single result of independent research, my, not even one single new etymology, that I could have added to my Collectanes. If I am wrong, let it be proved. That language is an institution, that language is an instrument, that we learn our language from our mothers, as they learned it from their mothers and so on till we come to Adam and Eve, that language is meant for communication, all this

surely had been argued out before, and with arguments, when necessary, as strong as any adduced by Professor Whitney.

Professor Whitney may not be aware of this, or have forgotten it; but a fertile writer like him ought at all events to have a good memory. In his reply, p. 262, he tells us, for instance, as one of his latest discoveries, that in studying language, we cought to begin with modern languages, and that when we come to more uncient periods, we should always infer similar causes from similar effects, and never admit new forces or new processes, except when those which we know prove totally inefficient. In my own Leetures I had laid it down as one of the fundamental principles of the Science of Language that " what is real in modern formations must be admitted as possible in ancient formations, and that what has been found true on a small scale may be true on a larger scale," I had devoted considerable space to the clucidation of this principle, and what did Professor Whitney write at timt time (1865)?

"The canolision sounds almost like a bathos; we should have called these, not fundamental principles, but obvious considerations, which hardly required any illustration" (p. 243).

Here is another instance of failure of memory. He assures us:—

"That he would never venture to charge anybody with being influenced in his literary labors by personal vanity and a desire of netoriesy, except perhaps after giving a long string of proofs—nay, not even then" (p. 274).

Yet it was he who said of (L 131) the late Professor Goldstücker that —

"Mare denunciation of one's follows and worship of Hindu predocessors do not make one a Vedic scholar," and that, after he had himself admitted that "no one would be found to question his (Professor Goldstücker's) immense learning, his minute accuracy, and the sincerity and intensity of his convictions."

By misunderstanding and sometimes, unless I am greatly mistaken, willfully closing his eyes to the real views of other scholars, Professor Whitney has created for himself a rich material for the display of his forensic talents. Like the poor Hindu grammarian, we are first made to say the opposite of what we said, and are then brow-beaten as holding opinions "obviously and grossly incorrect and hardly worth quoting." All this is clever, but is it right? Is it even wise?

Much of what I have here written sounds very harsh, I know; but what is one to do? I have that respect for language and for my friends, and, may I add, for myself, to avoid harsh and abusive words, as much as possible. I do not believe in the German saying, Auf einen groben Klotz gehört ein grober Keil. I have tried hard, throughout the whole of my literary career, and even in this " Defense," not to use the weapons that have been used against me during so many years of almost uninterrupted attacks. Much is allowed, however, in self-defense that would be blamable in an approvoked attack, and if I have used here and there the cool steel, I trust that clean wounds, inflicted by a sharp sword, will heal sooner than gashes made with rude stones and unpolished flints.

Professor Whitney might still, I feel convinced, do some very useful work, as the apostle of the Science of Language in America, if only, instead of dealing in general theories, he would apply himself to a crit-

ical study of scientific facts, and if he would not consider it his peculiar calling to attack the personal character of other scholars. If he must needs criticise, would it be quite impossible for him, even in his character of Censor, to believe that other scholars are as honest as himself, as independent, as outspoken, as devoted at all hazards to the cause of truth? Does he really believe in his haste that all men who differ from him, or who tell him that he has misapprehended their teaching, are humbugs, pharisees, or liars ? Professor Steinthal was a great friend of his, does he imagine that his violent resentment was entirely unprovoked? I have had hundreds of reviews of my books, some written by men who knew more, some by men who knew less than myself. Both classes of reviews proved very useful, but, beyond correcting matters of fact, I never felt called upon to answer, or to enter into personal recriminations with any one of my reviewers. We should not forget that, after all, reviews are written by men, and that there are often very tangible reasons why the same book is fiercely praised and fiercely abused. No doubt, every writer who believes in the truth of his opinions, wishes to see them accepted as widely as possible; but reviews have never been the most powerful engines for the propaganda of truth, and no one who has once known what it is to feel one's self face to face with Truth, would for one moment compare the appliance of the many with the silent approval of the still small voice of conscience within. Why do we write? Chiefly, I believe, because we think we have discovered facts unknown to others, or arrived at opinions opposed to those hitherto held. Knowing the effort one has made one's self in shaking off old opinions or accepting

new facts, no student would expect that everybody else would at once follow his lead. Indeed, we wish to differ from certain authorities, we wish to be criticised by them; their opposition is far more important, far more useful, far more welcome to us, than their approval could ever be. It would be an impossible task were we to attempt to convert personally every writer who still differs from us. Besides, there is no wheat without bran, and nothing is more instructive than to watch how the millstones of public opinion slowly and noiselessly separate the one from the other. I have brought my harvest, such as it was, to the mill: I do not cry out when I see it ground. From my peers I have received the highest rewards which a scholar can receive, rewards far, far above my deserts; the public at large has treated me no worse than others; and, if I have made some enemies, all I can say is, I do not envy the man who in his passage through life has made none.

Even now, though I am sorry for what Professor Whitney has done, I am not angry with him. He has great opportunities in America, but also great temptations. There is no part of the civilized world where a scholar might do more useful work than in America, by the bold and patient exploration of languages but little known, and rapidly disappearing. Professor Whitney may still do for the philology of his country what Dr. Bleek has done for the languages of Africa at the sacrifice of a lifelong expatriation, alas! I have just time to add, at the sacrifice

of his life.

But I admit that America has also its temptations. There are but few scholars there who could or would check Professor Whitney, even in his wildest moods of asseveration, and by his command of a number of American papers, he can easily secure to himself a temporary triumph. Yet, I believe, he would find a work, such as Banccoft's "On the Native Races of the Pacific States of North America," a far more useful contribution to our science, and a far more permanent monument of his life, than reviews and criticisms,

however brilliant and popular.

It was because I thought Professor Whitney capable of rendering useful service to the Science of Language in America that I forbore so long, that I never for years noticed his intentional rudeness and arrogance, that I received him, when he called on me at Oxford, with perfect civility, that I assisted him when he wanted my help in procuring copies of MSS, at Oxford. I could well afford to forget what had happened, and I tried for many years to give him credit for honorable, though mistaken, motives in making himself the mouthpiece of what he calls the company of collaborators.

In fact, if he had arraigned me again and again before a tribunal of competent judges, I should gladly have left my peers to decide between me and my American traducer. But when he eleverly changed the venue and brought his case before a tribunal where forensic skill was far more likely to carry the day than complicated evidence that could be appreciated by a special jury only, then, at last, I had to break through my reserve. It was not exactly cowardice that had kept me so long from encountering the most skillful of American swordsmen, but when the duel was forced upon me, I determined it should be fought out once for all.

I might have said much more; in fact, I had

written much more than what I here publish in selfdefense, but I wished to confine my reply as much as possible to bare facts. Professor Whitney has still to learn, it seems, that in a duel, whether military or literary, it is the bullets which hit, not the smoke, or the report, however loud. I do not flatter myself that with regard to theories on the nature of language or the relation between language and thought there ever will be perfect unanimity among scholars, but as to my bullets or my facts, I believe the case is different. I claim no infallibility, however, and would not accept the papal tiara among comparative philologists, even though it was offered me in such tempting terms by the hands of Professor Whitney. In order, therefore, to satisfy Mr. Darwin, Professor Haeckel, and others whose good opinion I highly value, because I know that they care for truth far more than for victory, I now appeal to Professor Whitney to choose from among his best friends three who are Professores ordinarii in any university of England, France, Germany, or Italy, and by their verdict I promise to abide. Let them decide the following points as to simple matters of fact, the principal bones of contention between Professor Whitney and myself : -

 Whether the Latin of the inscription on the Duilian Column represents the Latin as spoken in 263 B. c. (p. 430);

 Whether Ahnra-Mazda can be rendered by "the mighty spirit" (p. 430);

 Whether sarvanâman in Sanskrit means "name for everything" (p. 430);

 Whether Professor Whitney knew that the Phenician alphabet had by Rougé and others been traced back to an Egyptian source (pp. 480, 450, 468);

 Whether Professor Whitney thought that the words light, alight, and delight could be traced to the same source (p. 467);

Whether in the passages pointed out on p. 434.
 Professor Whitney contradicts himself or not:

7. Whether he has been able to produce any passage from my writings to substantiate the charge that in my Lectures I was impelled by an overmastering fear lest man should lose his proud position in the creation (p. 435);

 Whether there are verbatim coincidences between my Lectures and those of Professor Whitney

(pp. 425, 470-474);

 Whether I ever denied that language was made through the instrumentality of man (p. 470);

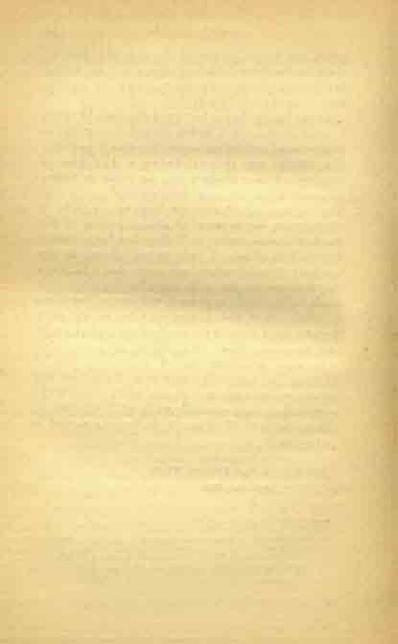
 Whether I had or had not fully explained under what restrictions the Science of Language might be treated as one of the physical sciences, and whether Professor Whitney has added any new restrictions (pp. 422 seq., 475 seq.);

 Whether Professor Whitney apprehended in what sense some of the greatest philosophers declared conceptual thought impossible with-

out language (p. 484);

 Whether the grammatical blunder, with regard to the Sanskrit pari tasthushas as a nominative plur, was mine or his (p. 490);

 Whether I had not clearly defined the difference between hard and soft consonants long before Professor Whitney, an i whether he has not



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