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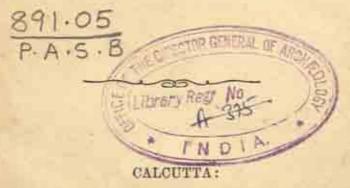
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APPENDIX B.

LIST OF DONATIONS.

Donors. Donations transferred to the Indian Museum.

Dr. J. E. T. Aitchison.—A specimen of Larns Ichthyaetus.

Capt. J. Anderson.—A fragment of stone from the old tomb of Mrs. Mary Hastings, at Berhampore.

J. Avdall, Esq.—A Fossil elephant tooth from Caunti.

Babu Biswambharanatha Mookerjee.—A pair of Sandals made of patha leaves, a kind of plant abundant in Peshawur.

F. Cockburn, Esq.—A specimen of Sciurus palmarum.

C. J. Crawford, Esq.—A steel print portrait of Dr. Latham.

Deputy Commissioner of the Upper Godavery District.—Two human skulls.

The Rev. C. H. Dall.—Three Photographs of the hairy family at Ava.

Dr. J. Fayrer,—A spear of a Naga Chief and a bow and arrows from the Andaman Island.

Col. B. Ford,—A specimen of a Fulgoria Cambelaria and a Phyllium Siccifolia and the skuil of a Dugong.

Imperfect skeletons of an adult and of a feetal Dugong.

A box of mineral specimens from the Andaman Islands.

A. Grote, Esq.—A specimens of Tragulus Javanueus.

Babu Gouradasa Bysack.—A low bricks and a carved Koran stand from Sat-Gombouj of Bagerhat.

W. J. Herschel, Esq.—A human skull wanting the lower jaw, with the sutures totally obliterated,

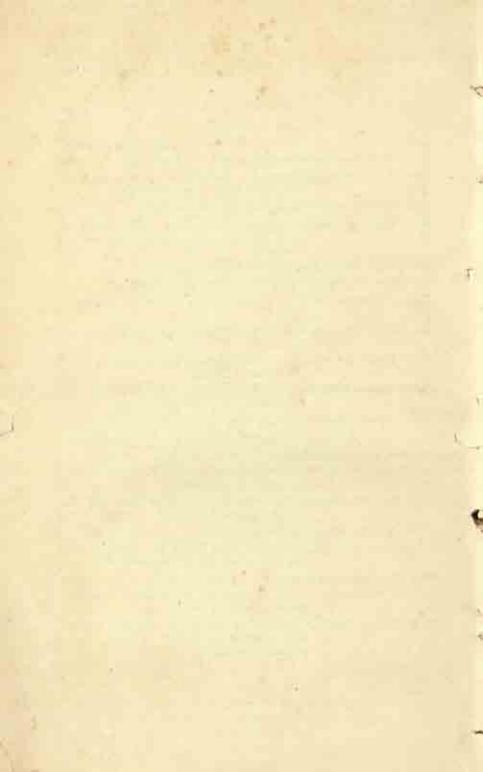
Babu Jadunátha Datta.—A young Crocodile.

L. Jackson, Esq.—A specimen of tissue woven by insects found near Gowar, in zillah Murshidabad.

Sir D. Maeleod,-A Photograph of a Zungami.

Licut. J. Waterhouse.—A box of specimens of plumbago from the South mines, near Delhi.

H. B. Webster, Esq.—A copper plate inscription found in a ruined Garhi situated in Mouzah Manpore, Pergunnah Agowtha.





ASIATIC SOCIETY OF BENGAL,

FOR JANEARY, 1867.

The Annual General meeting of the Asiatic Society of Bengal was held on Wednesday the 16th January, 1867.

E. C. Bayley, Esq., President, in the chair. The Secretary read the Council's Report.

ANNUAL REPORT.

In accordance with the custom of this Society the Council submit their annual report on the present condition of the Society and on the progress of its labours during the past year. With the single exception of Finance, which, owing to temporary causes presently to be explained, is in a less favourable condition than it has been for some years past, the Council believe that in every respect the state of the Society is most satisfactory. The Member-roll, which showed a slight diminution last year, now re-exhibits a marked increase, the loss of ordinary members by resignation and death being 24 only, while 39 new members have joined the Society. It now counts 391 members against 376 at the close of the last year, and has received therefore a net increase of 15 members. The comparative lists of paying and absent members, shew a still more marked improvement. Last year, there was a decrease of the former by not less than 21, but in the year inst concluded, this deficiency has been more than mude up, and 38 paying members have been added to the roll. The total number is now 305, of whom 146 are residents. The following table shows the number of members for each of the past ten years.

	Paying	Absent	Total
1857	109	38	147
1858	198	40	288
1859	135	45 *	180
1860	195	47	242
1861	925	55	281
1862	229	89	311
1863	276	79	855
1864	288	92	880
1865	267	100	876
1866	805	86	391
			1000

The losses by death (5 in all) include an unusual number of members whose labours have rendered them well known to the world at large or in the body of our Society. Foremost among them, we have to deplore the sudden and untimely death of the late Bishop of Calentta, a man whose pre-eminent worth and rare liberality of spirit have made his decease felt as a public loss, not alone by the clergy whom he ruled and by the members of the church he so nobly represented, but by those of every creed, whose object, like his, is the common welfare of men.

Dr. Roer was connected with the Society for very many years, as an associate from 1839 to 1852, and as an ordinary member from 1853 to the time of his decease. In 1841 he was placed in charge of the Society's Library, and in 1847 was appointed Editor of the Bibliotheca Indica and Secretary to the Philological Committee. In these different capacities, he took an active part in the affairs of the Society and rendered it most valuable service. In him the Society has to deplore the loss of an oriental scholar of high attainments, and a frequent contributor to its Journal and the Bibliotheca Indica.

Mr. Joseph G. Medlicott is another member, whose less is deeply regretted by very many of our body. In his public capacity, he was well known as one of the earliest and most energetic members of the Geological Survey of India, on the stuff of which he worked for upwards of ten years, and contributed in no small degree to the development of that orderly knowledge of Indian geology which we now possess, and which we owe almost entirely to the steady labours of the officers of the Survey. Arriving in India in 1851, already an

experienced geologist, he was engaged, during the ten years of his connection with the survey, in the Khasia hills, in the Raimahal hills, and other parts of Bengal and Central India; but his chief and best known publication is that on the geology of the Pachmari hills and the upper vallies of the Soane and Nurbudda, much of which country he surveyed under the peculiar difficulty of having to form his own topographical map part passa with the survey of the geological details. In 1861, when, owing to the outbreak of the civil war in America, the cotton production of India suddenly became an object of the highest importance to the manufacturers of Europe, Mr. Medlicott was commissioned by Government to draw up a handbook on the cotton production of Bengal, a work which gained for him a high reputation among those best able to appreciate its value. In 1862 he joined the Educational Department of Bengal, and up to the time of his decease in May of the past year, he continued to discharge the responsible duties of his post, earning by the liberality and catholicity of his views, not less than by the geniality of his spirit, the respect and confidence of all with whom he had to deal. His minor writings were numerous; chiefly contributions to the Calcutta Review and other periodicals. One of these, his review of Mr. Darwin's well known work on the origin of species. may be mentioned as having been noticed by the muincar author of the original work, as the most appreciative of all the numerous roviews that that remarkable book had drawn forth,

Mr. Obbard was for some years a member of the Society's Council, and especially took an active part in the meteorological discussions of two or three years since. His devotion to this science ceased only with his death, which occurred shortly after his arrival in England, whither he had proceeded in March last.

Two corresponding members have been elected during the past year, viz., Professor Emil von Schlagintweit, well known by his valuable work on Thibetan Buddhism, and the Rev. M. A. Sherring, to whom, in connection with Mr. Horne, the Society is indebted for several valuable contributions to the Journal on the subject of the Buddhist antiquities of Benares.

MUSEUM

In May last, the long contemplated transfer of the Society's collections to Government concluded the negotiations which have been pending since 1857, and the progressive steps of which have been from time to time reported to the Society. Before making the transfer, the Society had incurred a very large expenditure upon the Museum, in order that it might pass from their hands in a condition worthy of the many eminent men by whose exertions it had been formed. To Dr. J. Anderson, as a member of their own body, the Society are indebted for superintending the restoration and re-arrangement which the long absence of any qualified curator had rendered necessary, and they believe that all qualified to judge will pronounce the Museum in its present condition to be one of which the Society may be proud. The collections will remain in the Society's house until the completion of the new Museum Building. This, it is expected, will be ready to receive them within about three years from the present time.

The Museum is now in charge of the thirteen trustees appointed under the Act (XVI of 1866,) four of whom, viz. Dr. Partridge, Dr. Fayrer, Mr. Atkinson, and Mr. H. F. Blanford, are nominated by the Council of the Society.

FINANCE.

The heavy outlay on the Museum during the past year, following closely upon that incurred for the restoration of the building, and accompanied by a large increase in the publications of the Society, has temporarily reduced the finances of the Society to an unusually low ebb. On the other hand, unrealized assets, consisting of sums due by members and subscribers to the Journal have increased greatly, Indeed the Council cannot but think that these arrears would have been very much greater than they are, had it not been for the active exertions of the Honorary Treasurer of the Society, who has succeeded by dint of untiring exertions in realizing a considerable portion of the debts outstanding at the end of the last year, Owing to these causes, the Council have had to dispose of not less than 3000 Rs. worth of Government Securities in excess of the sale provided for in the Budget of the last year; as is shown in the following table of the income and expenditure, as estimated at the beginning of the last year, and as actually received or expended.

INCOME.

	Estir	nat	e.	Ac	tu	al.	Deficit.	Excess.
Admission fees,	1,000	0	0	1,280	0	0	143	280 0 0
Subscriptions,	8,500	0	0	8,676	0	0	144	176 0 0
Journal,	600	0	0 :	1,827	0	0	222	727 0 0
Library,	200	0	0	620	0	0	355	420 0 0
Museum,	6,000	0	0	2,589	0	0	3,411.	211
Secretary's Office,	20	0	0	20	0	0	***	2 0 0
Coin Fund,	100	0	0	.5	Ó	0	95.	489
	25,420	0	Ü	14,919	0	0	3,506.	1,605 0 0
Sale of Govt. Sects.	1,500	0	0	4,500	0	0	***	8,000 0 0
							3,506.	4,605 0 0

Excess,... Rs. 1,099 0 0

EXPENDITURE.

	Estin	nate.	Ac	tual.	Saving.	Excess.
Journal,	4,400	0.0	2,799	0.0	Rs. 1,601.	
Library,	2,000	0.0	5,258	0.0	200	8,258 0 0
Museum,	6,000	0 0	6,272	0.0	100	272 0 0
Secretary's Office,	2,850	0.0	1,784	0.0	ъ 566.	CHILLIAN II
Building,	2,500	0.0	2,634	0.0	700	134 0 0
Coin Fund,		0.0	503	0.0	444	183 0 0
Miscellaneous,	350	0.0	362	0.0	1977	12 0 0
		-		_	-	-
	17,920	0.0	10,612	0.0	,, 2,167.	3,859 0 0
			Expendit	are E:	cces, Rs.	1,692 0 0
			Income d	tto,		1,090 0 0
				D	ifference. ,	508 0 0

From this it will be seen that the sale of Rs 3,000 of securities beyond what had been anticipated has been necessitated, chiefly by the heavy expenditure on the Museum within the first five months of the year, in which period it exceeded the sum estimated for the entire year, while the income, estimated for the entire year, was actually received for 5 months only. The expenditure on the Library has also been considerably in excess of the estimate. But omitting the single item of the museum, the income has also exceeded the estimate by 1,530.

Were the museum expenditure in excess of the receipts for the same item emitted, the sale of the additional Rs. 3,000 of securities would not have been necessary, and there would have been a small surplus of Rs. 683.

This account of the financial condition of the Society would, however, be very imperisct, were the liabilities not also taken into consideration. There are still very heavy (Rs. 7,500) but not greater than the Society can meet without difficulty, if they can succeed in realizing any considerable portion of the very large amount (Rs. 8,100) due by members and subscribers to the Society. The Treasurer has made repeated endeavours to obtain these arrears, and with partial success, but some of the heaviest defaulters have, the Council regret to say, shown a lamentable disregard of the treasurer's applications, and the Council feel with regret that it may be necessary shortly to adopt very stringent measures towards some of the heaviest defuniters. The Council propose therefore to register the Society under the provisions of Act XXI of 1860, which will enable them to sue those who are insensible to less coercive forms of application; and at the same time to enforce Rule 11, which provides that the defaulter's name be removed from the Society, and full publicity given to his removal.

The Council have further taken steps to re-organize the financial system, to check expenditure to the utmost, and to place the entire control thereof under the Financial Committee, and they feel confident that, with economy and careful management, the Society's Finances will be restored to their former prosperity long before the time when the removal of the Society to the New Museum Building will put the Society in possession of a largely increased income, by the leasing of its present premises.

The following is the schedule of Income and Expenditure for the ensuing year. Each item has been carefully considered by the Financial Committee, and the amount of each item of Expenditure will not be exceeded in any case without a special reference to the Committee.

		INCOME.				
Admission fees,	999	***	944		(+++	1,000
Subscriptions,		m:	500	VO.	1423	8,600
Journal,	****	144	1466		1222	900
Library,	16		See .	***	300	200
Secretary's Office,	***		210			20
Coin Fund,			***	***		* 80
		-		R		10,800
	Ex	PENDITU	RE-			
Journal,						
	***	***	444		944	5,000
Library,			111	***	***	2,150
Library, Secretary's Office,				***		Photo Printer of the
Library, Secretary's Office, Building,	***		272	****	***	2,150
Library, Secretary's Office, Building, Coin Fund,	***	:	***		***	2,150 $2,000$
Library, Secretary's Office, Building,	***		***		***	2,150 $2,000$ $1,000$

Overcens.

The division of the executive work of the Society among four honorary officers has been found to work admirably, and has remiered it possible to carry out many improvements which would have been impracticable under the old system of entrusting the entire work to one or at the utmost two Secretaries. Two new Committees have been formed during the past year, the Socretaryships of which have been undertaken by Mr. Beverley and Dr. J. Anderson. The former gentleman has not hitherto been a member of their body, and the Council have to return their corollal thanks for the valuable assistance he has rendered in conducting the business of the Linguistic Committee.

Babn Protap Chunder Ghoshe has been active and assiduous as Assistant Secretary and Librarian, and the Council have great pleasure in recording their satisfaction with his services.

JOURNAL.

The entire Volums for the past year is larger and more profusely illustrated than any issued for previous years, while it has been fully equal in the value of the matter to that of any previous year. Three numbers of Part I, and two of Part II, have already been issued, and two more Nos. (one of each Part) are nearly ready for publication. A Special Ethnological number, containing a treatise on the Ethnology of India by the Hon'ble G. Campbell, with some important vocabularies, has also been issued, the price of which to subscribers it has been found necessary to fix at a higher rate than that of the ordinary series. Ten numbers of the Proceedings have also been published, in addition to a number containing the Index and tables for the Volume of 1865, and a double number, completing the Volume for the past year, will be issued in a few days.

All arrears of papers have now been cleared off, and it is believed that in the ensuing year the cost of the publications will be somewhat less therefore than during the past two years. But while the Council fully recognise the necessity for economy, they cannot recommend any curtailment of the publications, so long as reductions can be effected in other departments of the Society's expenditure.

LIBBARY.

Four hundred and sixty-nine volumes, periodicals and pamphlets have been added to the library during the past year and the library ture of certain departments of Natural History in which the library was previously very deficient, has been largely added to.

During the ensuing year, the finances will unfortunately allow but a comparatively small expenditure on new works, but a book for recording the names of works which it is desirable to add to the library is kept open for the suggestions of members, and these will be considered, and such as are approved of, added to the library in the order of their importance, as the means of the Society may admit of.

BIBLIOTHECA INDICA.

The editors of the Bibliotheca Indica continue to carry on that serial with unabated zeal. They have brought out 24 numbers, including portions of 10 different works, within the year under report. Twelve of these are in Persian, one in Arabic, ten in Sanskrit, and one translation into English from the Sanskrit.

In the new series Manlavis Kabir ul Din Ahmad and Abdul Rahman have published the first three fasciculi of the *Padshāhmimeh* of Abdul Hamid Lahmi, a history of Shah Jehan which will be welcome to oriental scholars as a contemporary and authentic chronicle of the reign of that emperor. The work is being printed from a MS. belonging to the Society which bears an autograph of Shah Jehan and there are several codices available for collation. As a continuation to it, Mauluvis Khadam Hosaim and Abdul Hai have undertaken an edition of the history of Alamgir (Alamgiruameh) by Mohammed Kazim, of which nine fasciculi have already been issued. Both the works are being printed under the able superintendence of Major Lees.

The Philological Committee have collected ample materials, and have made arrangements for the publication of a new and revised edition of the Ayin Akbary. Mr. Blochmann, who has undertaken to edit the work, has already made considerable progress in the task of collation, and the work will be sent to press immediately. The Government of India has been pleased to sanction a special grant of Rs. 5,000 for the publication of this work.

Papdit Ramnarayana Vidyaratua has completed his edition of the Scouts Satra of Aswalayana with a commentary, and is now engaged in an edition of the Grihya Satras of the same author. The work contains rules for the performance of domestic extensories according to the ritual of the White Yajar Veda.

Of the aphorisms of the Mimansa, Pandit Maheschandra Nyayaratna has published two fasciculi; and of the Taittiriya Aranyaka of
the Black Yajur Veda, Babu Rajendralala Mitra has brought out two
numbers. The last named gentleman was for some time engaged in
collecting materials for an edition of the Yoga aphorisms of Patanjali,
and has lately been able to send the work to press. It was originally
intended that it should include the commentary of Vyasa, but that
work having been already taken up by Mr Cowell, for the Sunskrit
Text Society of London, the Babu has limited his plan to the text of
Patanjali with the gloss of Bhoja Deva and an English translation.
This work will complete the Society's edition of the six Darsanas or
text books of the leading philosophical schools of India.

In the Old Series, Mr. Cowell has completed the second volume of the Black Yajur Sanhita, and a fasciculus of the third volume has been brought out by Pandita Ramnáriyana Vidyáratna, to whom the work has now been made over. Of the Bráhmana of that Veda, Bábu Rájendralála Mitra has brought out two fasciculi. It is expected that he will be able to complete the work in the course of the current year. Bábu Pramadadása Mitra has issued one fasciculus of his translation of the Sahitya Darpana, and Major Lees one of the Biographical Dictionary of persons who knew Mohamed. Both these works are now in a forward state for completion.

The following are lists of the different works published, or in

course of publication, in the old and the new series.

OF THE NEW SERIES.

 The Taittiriya Aranyaka of the Black Yajur Veda with the commentary of Sáyanácháryá, edited by Bábu Rájendralála Mitra, Nos. SS, 97, Fasc. III, IV.

 The Sranta Satra of Aswaláyana with the communitary of Gárgya Náráyána, edited by Rámanáráyána Vidyáratna, Nos. 90, 93,

Fasc. IX, X.

- The Mimánsa Darsána with the commentary of Sávara Swamin, edited by Pandita Mahesachandra Nyáyaratna, Nos. 95, 101, Fasc. III, IV.
- The Grihya Sátra of Aswalayana with the commentary of Gürgya Nărăyana, edited by Rămanărayana Vidyāratna, No. 102, Fasc. I.
- The Klamgir Nameh by Muhammad Kazim ibn-i-Mohammad Amin Munshi, edited by Mawlawis Khadim Husain, and Abdul Hai, Nos. 87, 89, 91, 92, 94, 98, 99, 103, 104, Fase, I to IX.
- The Bédahahnamáh by Abdul Hamid Láhawri, edited by Mawlawis Kabir Al Din Ahmad and Abdul Rahim, Nos. 96, 100, 105
 Fase, I, II, III.

OF THE OLD SERIES.

- The Taittiriya Brahmana of the Black Yajur Veda with the econmentary of Sayanacharya, edited by Babu Rajendralala Mitra, No. 216, Fasc. XXI.
- The Sahitya-Darpana or Mirror of Composition, a treatise on literary criticis by Viswanatha Kaviraja, translated into English by Babu Pramadadasa Mitra, and the late James R. Ballantyne, LL. D. No. 217, Fasc. IV.
- The Sanhită of the Black Yajur Veda with the commentary of Mădhaya Achârya, edited by Rămanāarayang Vidyāratna, Nos. 218, 219, Fasc. XX, XXI.
- A Biographical Dictionary of persons who knew Mohammad;
 by Ibn Hajár, edited in Arabic by Mawlawis Abdul Haqq and Gholam Qadir, and Captain W. N. Lees, No. 215, Fasc. III.

COIN CARRIET.

The coin cabinet has received accessions of several new coins, including a collection of thirteen gold Indo-Scythians, several Greek, Bactrian, and Parthian silver pieces, and some gems. Measures are being taken for the arrangement and cataloguing of the collection, and the Conneil expect, that in course of the current year much will be done to render it easily accessible for reference and comparison.

The report having been read, it was moved by Mr. Beverley, and voted unanimously, that the report just read be approved.

The meeting then proceeded to elect the Council and officers for the ensuing year.

It was proposed by Mr. Blanford and agreed to, that the Hon'ble J. P. Norman and Mr. H. H. Locke be appointed Scrutineers of the ballot.

The ballot having been taken, the President announced, on the report of the Scrutineers, that the following gentlemen had been elected to serve on the Council for the ensuing year,

Couxen.

Dr. J. Fayrer, President, Dr. S. B. Partridge,

The Hon'ble G. Campbell, Vice-Presidents.

A. Grote, Esq.

E. C. Bayley, Esq.

Dr. T. Anderson.

Dr. J. Ewart.

Dr. D. B. Smith.

A. Mackenzie, Esq.

H. Beverley, Esq.

T. Obiham, Esq.

H. F. Blanford, Esq. General Secretary.

Babu Rajendralala Mitra, Philological Secretary.

Dr. John Anderson, Natural History Secretary, Lieutemant-Colonel J. E. Gastrell, Tressurer.

Mr. Mackensie proposed and Dr. Fayrers conded—that Dr. D. Waldie and Mr. Robinson be appointed auditors of accounts for the past year.

The President then addressed the meeting previous to vacating the chair.

He said that he congratulated the Society of Dr. Fayrer as their President. It was especially opportune, as the arrangment for the experiment of an ethnological congress, which had been first suggested by Dr. Fayrer, would have to be matured by the Society during the ensuing year, and would now have the benefit of Dr. Fayrer's personal supervision. As to the exact present position of that experiment, Dr. Fayrer would be better able to speak than himself, but he could at least say that the proposal had excited much attention and warm sympathy among scientific men and scientific bodies in Europe, and had already resulted in the collection of a large mass of information, both valuable and interesting, regarding the tribes of India and the countries on its borders.

As regards the position of the Society too, the year which had just passed was an important one. Their museum which, valuable and extensive as it was, had outgrown the measure of the Society's resources, had been handed over to the Trustees of the inture Imperial Museum.

The President could not but think that experience had already shown the wisdom of this step. The valuable services of Dr. Anderson, which the Society's means could never have enabled it to secure, had already resulted in the addition of much that was required to the Collections, and had saved, improved and utilized much which they already possessed. The President was sure that all the members of the Society who visited the museum would at once recognise the value of Dr. Anderson's labours. And he was convinced that the transfer of the Society's collections to the museum would tend greatly to their improvement and better preservation, and to their better service to the cause of science.

To the members, these collections, with the collections of the new museum, would be still as freely and conveniently available as before, and he believed, in short, that the measure would only result in the greater usefulness, dignity and prosperity of the Asiatic Society.

On one subject only, the reports of the past year which had just been read were unsatisfactory, and it was the point on which the reports always had been unsatisfactory, and this was the pecuniary condition. The labours of Dr. Anderson had shown the necessity for a large expenditure even before the transfer; and this heavy outlay had told heavily on the Society's means; he hoped, however, that now, relieved from the maintenance of their collections, their finances would soon recover, but there was and always would be an ample field in India and its immediate neighbourhood, for the profitable expenditure of any amount which either the Society or the Government could afford to devote to the development of antiquities, history or natural science.

In conclusion, he could not but regret that his own enforced absence from Calcutta had prevented him from being as useful to the Society as he could have wished to be. The Society was aware, however, that the Vice-Presidents, and especially Mr. Grote, had fully and ably done the work which ought to have fallen to the President's share; for this he begged leave to tender them his individual thanks, and would now with great pleasure vacate the chair to make room for Dr. Fayrer.

The President elect, on taking the chair, addressed the meeting as follows.

"Gentlemen; I have to thank you for the great though unexpected honour you have conferred on me by electing me to be the President of your Society. I must, however, express my conviction that you have not made a happy selection; I say so, because I think that the President of a Society, such as this, should be a person with more leisure at his command than I have, and of scientific attainments such as I can have no pretension to. Indeed I am at a loss to understand how the choice can have fallen on one so unfitted, as I am, for such an office, and I confess that my misgivings as to the results, cause me apprehension. When I reflect on the distinguished men who have preceded me, and on all they have done for the Society, I feel how entirely I am at a disadvantage, and how imperiectly even I can ever hope to do justice to the chair, in which you have placed me. On learning at the last meeting of the Council that it was the intention of that body to nominate me as their President, I hastily determined to decline the honour, but on stating my intention to some of my friends, and hearing that to do so would be displeasing to many for whom I entertain the highest regard, I determined to accept the office if offered to me, and do my best, (i. e. whatever the turmoil and uncertain leisure of a professional life will permit,) to give you satisfaction, and, if I can, with your aid, to promote the interests of the Society.

"It is at an eventful period in the history of the Asiatic Society, that the office of President has been assigned to me. In parriag with its noble collections, and thus associating itself with the inchoate Imperial Museum, it has given an impulse to the progress of science in this country, that can hardly be over-estimated.

"Long possessed of one of the richest known collections of natural history, and enjoying the services of a distinguished naturalist as curator, it had yet the mortification of seeing these collections gradually suffer from neglect and decay; the valuable services and contributions of its best supporters frustrated, if not altogether lost a the progress of natural science languishing, and energy failing, because the necessary funds were not forthcoming to meet the demand; and notwithstanding the subsidy of a Government which has so often generously aided in the advance of knowledge, the Society was unable to keep race with the requirements of the period, or to maintain, in its due freshness and integrity, the position to which it might have fairly been entitled in the scientific world. This happily is no longer to be the case. It is sufficiently apparent even to the most casual observer, among those who frequent the Society's meetings, that a great change has already taken place; and I feel certain that what we now see is but an eurnest of much more that is to come.

"The Imperial Museum will hold our collections. The curator of that Institution will jesiously preserve and guard whatever we entrust to his care. Scientific men and others in India will contribute to him what they would have sent to us; but our interest is still with our collections, and to us the world will look for further contributions and further elaboration and generalization of the mass of material already accumulated. With the impulse that science has received by the recent conjuined action of the Government and the Society. I would venture to hope that increased activity in furthering scientific enquiry will agitate its members generally; and that a more vivid appreciation of asjentific research, and the importance of a more zealous investigation into the large field of knowledge which still lies open in India, will characterize the efforts of every individual connected with the Society; that these rooms will be the scene of many animated discussions of anbjects connected with every department of science; and the object of the founder may be fulfilled, -" That enquiry may be fully extended, within the geographical limits of Asia, to whatever is performed by man or produced by nature."

The annual Report, to which you have just listened, has informed you of much of what has been done, and of the condition of the Society at the close of the past year. It betokens activity and onward movement; it indicates that large and important questions have been dealt with by the Society, not only in the Department of oriental languages, in which it has always field so high a place, under the direction of the eminent native and European philologists who have contributed so largely to the 'Bibliotheca Indien,' but also in zoology, archaeology, meteorology and other departments of natural science, in which enquiry has been pushed, and progress made.

"Questions of the day, most occupying men's minds,—those connected with the origin of our species,—the history, affinities and relations of the infinite number of varieties of the human race, whether illustrated by physical conformation or linguistic pscaliarities, have been prominently brought before the Society, for investigation; and are perhaps, at your hands, to receive the solution of some of the most interesting problems connected with the enquiry.

"The Natural History of the Fauna and Flora of the country, its mineral and other telluric treasures, already much investigated by many able men, yet present ample field for research and discovery.

"A noble Botanic Garden and herbarium, although unconnected with the Society, (which we may hope to see supplemented by a section of Economic Botany, in the Maseum) already represent the treasures of this department of the organized kingdoms of nature.

"In Geology and Palmontology, a museum and records worthy of the distinguished Geologists who are at the head of that Department of Science in India, are accessible to the scientific world, and are available to you either for study or comparison.

"For those who are interested in numerical and archeological relies, collections exist in the Society's Museum, of no mean repute; and it is with pleasure that I note the commencement of a Department of Social Science under the auspiess of a talented and energetic member of our Society, which is thus indirectly connected with the Asiatic Society. I have also the gratification of recording the initiation of a movement among several members of the Society and others, for establishing that most useful and instructive of all places of public recreation, a Zoological garden. This is a subject which I trust will receive public support and the countenance of the Society, and will soon be reckneed among the accomplished facts of Calcutta.

"It is a subject of congratulation in the interests of natural science, that the Society has many energetic collectors, enquires and contributors scattered over the length and breadth of the land; all working, and scalous for its well-doing.

"The geological, topographical, geometrical and archaeological surveys are steadily progressing, and accumulating funds of information of the most important mature, under the eminent men who direct their operations, and to whom we may naturally look for—and from whom indeed we have always received—the most valuable contributions to our present stock of knowledge. With such means at our disposal,—with such great opportunities,—with a Government well disposed towards the pursuit of science, and some of whose members are on our roll,—with an able staff and select committees to work each department of scientific enquiry,—surely we ought not to fail in contributing that quota of knowledge to the great general stock, which is naturally looked for, and may be expected from us by kindred societies in Europe.

41 You will have observed that it has not been altogether progress during the past year.* Financially the Society has been and is embarassed, but we may reasonably hope that the increasing number of the members will obviate for the inture this source of trouble, and that the many long outstanding arrears will be speedily liquidated. We have suffered too by the inscrutable hand of death. You have heard an obituary notice of several eminent and staunch supporters of the Society, among whom I regret to say that of Sir G. Everest ought to have appeared. They were good and true men, earnest enquirers into those questions which engage our Society and the scientific world generally; and though it is perhaps neither the time nor place to allude further to what they have done, or to express our regret for their loss, yet I cannot refrain from adding one tribute of regret to that which has lately engaged the sympathies of men of every denomination, for the untimely loss of a good man, cut off in his prime in the midst of a noble work, respected and beloved alike by learned and unlearned, by members of all sects, and every religious denomination and creed.

"But there is business of importance still before the meeting, and I ought not to detain you longer. I again thank you for the honour you have done me, and express a hope that the year to come may be even more prosperous than that just passed away."

The meeting then resolved itself into an ordinary monthly meeting. The minutes of the previous meeting were read and confirmed.

The following presentations were announced-

 From Baboo Bishwambhar Nath Mookerjee; a pair of sandals made of patha leaves, a kind of plant abundant in Peshawar.

 From C. J. Crawford, Esq., through Mr. Grate; a steel print portrait of Dr. Latham.

 From the Deputy Commissioner of the Upper Godavery district, two human skulls.

From the Rev. G. U. Pope, through the Rev. C. H. A. Dall;
 five Tamil printed works, by the Rev. G. U. Pope.

From Dr. J. Fayrer; a spear of a Naga chief, and a bow and arrows from the Andaman Islands.

The following letter from W. Masters, Esq., on the November fall of meteors, was read:—

"I respond to the spirit of your last letter by forwarding an account of meteors that fell on the 14th instant, for record in the Proceedings of your Society. I have sent a popular account of them to the "Englishman" for general information: to this I shall add a few particulars which I did not consider of sufficient interest to insert in the original.

"My attention was first drawn to these visitors to our sphere, in 1823 (I believe), when, a little before sunrise, while scated in an upper verandah in Calcutta and looking south, I observed white, pearly, flakey, I might almost say, tiny spiritual things of the shape of Rupert drops falling, as I fancied, perpendicularly down, about a yard or two apart, and about 15 succeeding each other in two or three minutes within the range of direct vision. Day followed too quickly for this exhibition to last long.

"Since that time I had been watching their recurrence without success; and was on the look out for them from the 9th to the 13th instant, when only a few stragglers presented themselves. Up to 11 r. m. of the 13th, there was no sign of meteors; but at half-past 4 a. m. of the 14th instant, they were in great abundance over Kishnaghur. I cannot say at what hour they first began to fall, although I have made inquiries of watchmen and others. I looked out about half past four or a quarter to five, and observed them shooting along the sky divergingly and very rapidly, from some part of the head of Leo major; and by their manner of comporting themselves, was immediately convinced that we had come upon the great shoul of November. I was most interested in detecting, if possible, the precise point of divergence; and it soon became evident that, contrary to received opinion, γ Leonis was not the starting point. After counting fifty in about five minutes, I woke up five others to witness the phenomenon and give aid in watching and counting.

"We arranged ourselves looking in different directions, and as each saw a meteor, there was a distinct call of the next number 51, 52, 53 &c.; the stars shooting out sometimes faster than they could be counted: some were lost on this account; some, owing to the excitement of my young coadjutors; and many, while I was waking up aid. Yet, in less than half an hour, we counted four hundred and twenty; had we been all together during the half hour, we should certainly have counted more than five hundred.

"The velocity of these meteors was exceedingly great; there was no lagging or hesitation in their course, as is frequently the case with ordinary meteors: but they darted like rockets from an unseen centre, sometimes three or four in one direction nearly, slightly diverging, leaving long and short trains with much divergence herizonwards and narrow convergence upwards. I shall call these a for reference in the sequel. Others shot in different directions, east, west, north, and south, and intermediate points were filled up in rapid succession; not one appeared to fall perpendicularly to the earth; all described glowing arcs in the sky, varying from 26° to 60°; a few points of light excepted, which described scarcely 3° or 4°.

"Their decided and long courses, all seeking the horizon directly, and their persistent trains of the light, which looked like meridians on a globe, strongly and unmistakably pointed to a spot in the head of Leo major, then some degrees eastward of the zenith, as their radiating point.

"The meteors did not actually start into view at one point; many commenced their courses about 30° or 40° from the supposed point of divergence, seeking the different points of the horizon, while the upper portions of their trains pointed to the same spot in the sky. Those were generally large and bright, and illumined the trees and walls like a flash of lightning from a thunder cloud near the horizon; others, comparatively small, darted or first shewed themselves only a few degrees from the radiating centre, sometimes three at once, leaving their trains for leisurely tracing backwards; those with long trains and long courses, generally burst or blazed out about 20° or 30° from the horizon; some within 20° of it. No sound of any kind was heard; the light of these meteors, when they blazed out, was reddish; the trains left behind were generally broad, spreading about half a degree, glowing at first like the fresh mark of phosphorus on a wall, then quickly becoming pale like the tail of a comet, or like the mingling of muriatio acid gas and ammonia, and lasting from half a minute to one minute and a half.

"One took me quite by surprise; it blazed out like a star of the 2nd or 3rd magnitude between μ and ε of Leo major, as bright as ε but not of the same silveryness or intensity, and gradually faded away in the same spot, without any visible linear course whatever; it suggested the idea of a meteor coming straight to the eye.

"I looked our again at 6 a. m. before the sun rose, and saw a streak of white light, like a Rupert's drop with a long thread behind, shoot down from the direction of Les major, to Capella Alajoth in the north west, the only star then visible. It appeared to be close at hand, and looked exactly like those of 1833, with the exception of the long thread. About three or four of the meteors enumerated above did not shoot from the diverging point: if they belonged to the same set, they must have been drawn out of their course.

"After as careful a survey as the circumstances would permit, I have no doubt that the centre of radiation was somewhere between the two stars in the head of Leo major, via ε and μ; and probably at the precise spot where a meteor appeared and disappeared. I saw one meteor start a few degrees north of μ, (scarcely 3°,) to a point between north and north-east, and its course, traced backwards, passed straight over μ and ε; and the clear impression of the moment on my mind.

was, that a line darted from ϵ across μ and onward, the line becoming a meteor some distance farther on. Again, the set of three or four which I have called α above, shot south-eastward, leaving Regulus a little to the east: starting nearly on a parallel with Regulus, their pale traces, left in the sky, converged unmistakeably up to ϵ and μ , one trace proceeding a little more north than the other: and the meteor noticed above which blazed out between these two stars appears to reveal the true point of divergence: Some point near γ Leonis was the diverging point in 1833; if other observers confirm my statement, some step, I imagine, will be gained towards the determination of the orbit of the November sheal.

"On the supposition that the meteors are not self-luminous, but become visible after contact with our atmosphere, it would appear that the atmosphere was unpierced by any meteors, (two excepted,) to a distance of about 10° at most, all round s.

"The apex of the Zodiscal light appeared to be some degrees south of ϵ and γ Leonis."

21st November, 1866.

"As a sequel to my letter of the 21st ultimo regarding the November meteors, I beg to forward the following particulars. The 27th to the 29th November, and 7th to 12th December, are dates of observation for meteors of a similar kind; but diverging meteors were not seen again or detected till 2½ a. m. of the 12th December; they might have come on at an earlier hour of that date, and they appear to have passed off by 3 a. m.

"They shot divergingly and with great rapidity, not from a point near γ or ε Leonis, but some point to the westward of these, between ξ in the muzzle of Leo Mojor and the small stars in the foot of the Lysz and the tip of its tail; some point about 29° or 30° of north Declination, and 136° of Right Ascension. They darted out at the rate of about three per minute; were small, described short and thin area of light, and left no traces: hence it was difficult to fix with any degree of precision upon the exact point of divergence. Some showed themselves only as moderate bluess or bursts of light about 40° or 50° from this point, without any visible are of light or course. A bright meteor with a long train shot across the area of divergence from nearly due south to north, or from Alphard in Hydra to θ in Ursa Major.

"This display of meteors had nothing brilliant or exciting in it: but notwithstanding its tameness, I think it should be recorded."

A letter from Dr. Duka presenting a specimen of a meteorite was read.

"The piece of stone which I have the honor of presenting to the Society, is a fragment of a large meteorite that fell near Knyahinya in the neighbourhood of Nagy-Berezna in the county of Ungvar in the north-east of Hungary, near the border of Gallicia.

"The phenomenon occurred on the 9th of June last, and according to the statement of Professor Hirsch, communicated by him to Dr. Haidinger of Vienna, the fragments were very numerous, as many as sixty pieces being in the possession of different parties.

"It appears from all I could gather in the country, that on the afternoon of the above-mentioned day, between 4 and 5 o'clock, an enormous detonation took place, which could be compared to a simultaneous discharge of one hundred pieces of artillery. High on the horizon a small cloud was visible, about ten times the size of the sun; otherwise the heaven was perfectly clear. Upon the detonation, the cloud dispersed in a radiating manner, and in the vacuity no flash was visible. Two or three seconds after the discharge a noise was heard, which seemed to be caused as if waters or rocks were dashing one against another, and this lasted for nearly fifteen seconds; and at last, with all traces of the cloud, entirely subsided. The labourers working in the fields near the spot, state that, for full half an hour afterwards, a smell of sulphur surrounded tham.

O All the fragments were collected within the circumference of about 1,200 yards: they vary in weight from a few ounces to large masses, one of which weighs 27 pounds. A Jewish publican who was quite close, took up a fragment immediately on its fulling down, and declares that it was cold like ice, but that his hands smelled of sulphur or garlic for two days subsequently.

"The phenomenon was seen in all directions of the compass, but at a distance, it appeared, instead of a mere cloud, like a ball of fire; and the furthest distance from which it was reported to have been noticed, is about 80 English miles.

"As this phenomenon occurred about the time when the late disasrous Austrian campaign was about to commence, it excited more than ordinary interest throughout Austria, and I sloubt not but that a full account of it will in due time be published by some of the Scientific Societies in the Empire.

"My specimen is 1 fb 4 ozs, 72 grs, in weight and 8 to 9½ inches in circumference: it is I believe of a structure and composition similar to the Aerolite which fell near Parnallee in February 1857,"

Lieutenant W. J. Williamson, and G. A. D. Anley, Esq., duly proposed at the last meeting, were balloted for and elected as ordinary members.

The following gentlemen were named for ballot as ordinary members at the February meeting.

Colonel J. C. Brooks; proposed by Dr. J. Anderson, seconded by Dr. J. Ewart.

Lieutenant-Colonel Blair Reid, Governor-General's Agent at Chumla; proposed by Dr. J. Anderson, seconded by Mr. Grote.

E. V. Westmacott, Esq., C. S., B. A., Assistant Commissioner, Manbhoom; proposed by Dr. J. Anderson, seconded by Mr. H. F. Blanford.

Alfred Woodley Croft, Esq., Professor, Presidency College; proposed by J. B. Branson, Esq., seconded by Mr. H. F. Blanford.

John Anderson Paul, Esq., Exchange Hall; proposed by J. H. Branson, Esq., seconded by Mr. H. F. Blanford

Letters from Dr. R. Bird and Lt. H. Trotter, intimating their desire to withdraw from the Society were recorded.

An Ethnological Report of the Government of the Straits Settlement was submitted.

In connection with the proposed Ethnographic Congress, Dr. Cleghorn exhibited five photographs by Messrs. Bourne and Shepherd, illustrating the aborigines of the Himalaya and adjacent countries, who occasionally find their way to Simla. The Kannits of the Hill States and the Guilless of Kangra were represented in their proper costume. The most interesting group contained the figures of a Lama from Libassa and a North Tibetan from Zanskar, rarely seen at that sanatorium.

The receipt of the following communications was announced-

From Baboo Gopee Nath Sen, Abstract of Hourly Meteorological Observations made at the Surveyor General's Office in Septemer last.

2. From H. Blochmann, Esq., M. A.

- " Notes on Sherajuddaulah and the town of Moorshedabad, taken from a Persian manuscript of the Tarikhi-i-Mansuri."
 - B. From F. S. Growse, Esq., M. A. Oxon B. C. S.

" Philological Notes."

4. From Professor E. Von Schlagintweit.

- "Notes in reference to the question of the origin of the aboriginal tribes of India."
 - 5. From J. Benmes, Esq., C. S.

"Further Notes on the derivation of ' Om and Amen."

LIBRARY.

The following are the additions made to the Library since the meeting held in September last.

Presentations.

. The names of Donors in Capitals.

Die Fossilen Mollusken des Tertiär-Beckens von Wien, by Dr. M. Bornes (Band, H. Nes. 5 and 6. Bivalve).—The Author.

Proceedings of the Delhi Society (in Persian).-The Society,

A Treatise on Cultivation (in Persian).—The Denni Scienzistic Society.

Catalogue of the American Philosophical Society's Library, Part 2.— THE SOCIETY.

Reise der Oesterreichischen Fregatte Novara um die Erde in den Jahren, 1857-58-59, unter den Befehlen des Commodere B. Von Wüllerstorf-Urbair. Nautisch-Physicalischer Theil.—Tun Aurnon.

An Index to Aitchison's Treatises, Engagements and Summids.— The Government of Bengal.

Ditto ditto. THE FOREIGE OFFICE.

A Manual of Mahomedan Civil Law in Canarese by Lieut, R. A. Cole, —The Author.

Hindu Social Laws and habits viewed in relation to health, by Baboo Kony Lall Day.—The Author.

Blustrated Catalogue of the Museum of Comparative Zoology at Harvard College, No. 1: Ophinridae and Astrophytidae, by Professor T. Lyman,—The Museum.

Ditto ditto No. 2; N. American Acalephas by Professor A. Agassiz.— The Author. Bulletin of the Museum of Comparative Zoology.—Professor Agassiz, Report on the Calcutta Cyclone; by Lient.-Col. J. E. Gastrell and H. F. Blanford, Esq.—The Government of Bengal.

Extracts from Harrington's Analysis of Bengal Regulations,—The Foreign Oppice.

Abhandlungen der Königlichen Academie der Wissenschaften zu Berlin, 1864,—The Academy of Science of Berlin.

Observations on the functions of the liver by Dr. R. M'Donnell.— The Avrior.

Catalogus Codicum Orientalium Bibliothecm Academias Lugduno-Batavas by P. Jong and M. J. de Goeje,—Tus Auvnous.

Ichthyologischer Bericht über eine unch Spanien und Portugal unternommene Reise by Dr. F. Steindachner,—Тик Аυтиок.

The Progress of England; a poem; to which are aided Notes on the organization of the British Empire.—Tuz Entron.

Annals of Indian Administration, Vol. IX, Parts 3 and 4, Vol. X, Parts 1 to 3.—The Bengal Government.

Journal of the Chemical Society, Vol. IV; July, August and September, 1866;—The Society,

Quarterly Journal of the Geological Society of London, Vol. XXII, Nos. 87, 88.—The Society.

Journal of the Royal Geological Society of Ireland, Vol. I, Part 2:— The Society.

Journal Asiatique, Vol. IV, No. 15, Vol. VII, Nos. 24, 27, Vol. VIII, No. 28, sixth series:—The Asiatic Society of Paris.

Proceedings of the Royal Society, Vol. XV, Nos. 85, 86.—The Royal Society of London.

Journal of the Statistical Society of London, Vol. XXIX, Part 3:— THE SOCIETY.

Bijdragen Taal-land-en Volkenkunde van Nederlandsch Indië, Vol. I, Parts 1 and 2, 3rd series.—The Society.

Transactions of the Linnean Society of London, Vol. XXV, Part 2.—The Society.

Journal of Sacred Literature, Vol. X, No. 19 .- THE Entrons.

Journal of the Proceedings of the Linnean Society, Zoology, Vol. VIII. Nos. 31, 32, 33.—The Society.

Ditto ditto, Botany, Vol. IX, Nos. 36, 37, ditto ditto. - The Society.

Sitzungsberichte der K. Akademie der Wissenschaften zu München; Vol. I, Parts 1 to 4; Vol. II, Parts 1, 2:—The Society.

The Calcutta Christian Observer, Nos. 318, 319, 322 and 323.—The Epiron.

Philosophical Transactions of the Royal Society of London, Vol. CLIV, Part 3, Vol. CLV, Part 1,—The Society.

Rahasya Sandarbha, Vol. II, No. 34.—The Calcutta School Book Society.

Memoirs of the Geological Survey of India, (Palæontologia Indica), Vol. IV, Part 1.—The Government of India.

Ditto ditto, Vol. IV. Part I .- The Government of Bengal.

Ditto ditto, Vol. IV. Part I: THE SUPERINTENDENT OF THE GEOLO-GICAL SURVEY.

Report (Annual) on the Administration of the Province of Oudh for 1864-65.—The Government of Bengal.

Report on the Administration of the Madras Presidency, for 1864, 1865.—The Government of Bengal.

Selection from the Records of Bengal Government, No. 42.—The Government of Bengal.

Return showing the operations of the Income Tax Act in the N. W. P. for 1864-65. The Government of Bengal.

Proceedings of the Royal Institution of Great Britain, Vol. IV, Parts 5, 6.—The Royal Institution.

Selection from the Records of the Bombay Government, No. 96.— The Government of Bombay.

Journal of the Royal Asiatic Society of Great Britain and Ireland, Vol. II, Part I.—The Society.

Bulletin de l'Acadêmie Impêriale des Sciences de St. Petersbourg, Vol. VII, Nos. 3 to 6, Vol. VIII, Nos. 1 to 6, Vol. IX, Nos. 1 to 4.:— The Academy.

Memoires de l'Académie Impériale des Sciences de St. Petersbourg, Vel. IX, Nos. 1 to 7, Vol. X, Nos. 1 to 2.—The Imperial Academy.

Proceedings of the Royal Geographical Society of London, Vol. X, Nos. 4, 5,—The Royal Geographical Society.

Memoirs of the Royal Astronomical Society of London, Vol. XXXIV.—The Society.

Memoirs of the Geological Survey of India, Vol. IV, Part 3, Vol. V, Parts 1, 2, 3,—The Superintendent of the Geological Survey. Catalogue of the Organic remains belonging to the Echinodermata in the Museum of the Geological Survey of India.—The Same.

Zeitschrift der Deutschen Morgenländischen Gesellschaft, Vol. XX, Part 2:—The Editor.

Annual Report, with Tabular Statements for the year 1865, on the condition and management of the Jails in the N. W. P.—The Govt. N. W. P.

Nyt Magazin for Naturyidenskaberne, Vol. XIII, Part 4, Vol. XIV, Part 1.—The Entropy.

Det Kongelige Norske Frederiks Universitets Aussberitning, 1863.—The University of Christiania.

Proceedings of the Royal Irish Academy, Vols. VII, VIII, and IX, Part 1.—The Academy.

Transactions of the Royal, ditto ditto, Vol. XXIV, Antiquities, Parts 8, 4, 5, 6 and 7.—Ditto ditto.

Ditto ditto ditto ditto, Science, Parts 4, 5, 6,-Ditto ditto.

Ditto ditto ditto ditto, Polite Literature, Parts 2, 3 .- Ditto ditto.

Report on the Survey Operations of the Lower Provinces of Bengal, 1st October, 1864 to 20th September, 1865.—The Government of Bengal.

Report (General) on the Revenue Survey Operations of the Bengal Presidency for 1864-65.—Foreign Department.

Selection from the Records of Government N. W. P. Part XLIV.— THE GOVERNMENT OF BENGAL.

Selections from the Revenue Records for 1818-20,-The Same.

Monatsberichte der Königlich Preussischen Akademie der Wissenschaften zu Berlin, for 1865.—The Academy of Science, Berlin.

Compilation from Rollins' Ancient History, with additions; translated into Urdu No. 9.—The Scientific Society of Altoure.

Selection from the Records of the Government of India, (Foreign Department) No. 5.—The Government of India.

Auctores Sanscrita, Vol. I, Parta 1, 2.—The Sanscrit Text Scients.

Recueil de Voyages et de Memoires, publié par la Société de Géographie, Vol. VII.—Tun Society.

Fyzabad Settlement Report, Nos. 1 to 3.—By P. Carnegy, Esq.— The Author. Report (Annual) of the Dispensaries of N. W. P. for 1865.—The Government of the N. W. P.

Erchanges.

The Athensum for July, August, September and October, 1866, The Philosophical Magazine and Journal of Sciences, Vol. XXXI, Nos. 214, 215, Vol. XXXII, No. 216.

Purchases.

Cowasjee Pattell's Chronology.

Les Religions et les Philosophies dans l'Asie Centrale by M. l' E. Gobineau.

The Ferns of British India, Part 14, by Capt. R. H. Beddome.

Sanscrit Wörterbuch, Part 31.

Sketches in India; by Capt. A. N. Scott.

La Maha Bharuta, by H. Fauche, Vols. IV. and V.

The Kamil of El Mubarrad, Part 2, by W. Wright, Esq.

Hewitson's Exotic Butterflies, Part 60.

Essay on the Sacred language, writing and religion of the Parsees; by Dr. M. Hang.

Günther's Zoological Records, Vol. II.

Dictionary of British Indian Dates.

Idylla from the Sanscrit; by R. T. H. Griffith.

Reeve's Conchología Iconica, Parts 258 and 250,

The Annals and Magazine of Natural History; Vol. XVII, Nos. 104, 105, 106, 107.

Comptes Rendus de l'Académie des Sciences, Tom. LXIII. Nos. 2 to 19.

Numismatic Chroniele and Journal of the Numismatic Society. New Series, Vol. VI, Paris 1, 2, 3.

Journal des Savants, July, August, September and October, 1866.

The Quarterly Review, Vol. CXIX, Nos. 239, 240.

Revue des Deux Mondes, from 15th July to 1st November, 1866.

Revue et Magasin de Zoologie, Vol. XVIII, Nos. 7, 8, 9,

Journal of the American Society of Sciences and Arts, Vol. XVII, Nos. 124, 125.

Abhandlungen für die Kunde des Morgenlandes, Vol. IV, No. 4.

The Ibis; A Magazine of General Ornithology, Vol. II, Nos. 7, 8.

Annuaire des deux Mondes; Histoire Générale des divers Etats, Vol. XII, for 1864-65.

Annalen der Physik und Chemie, Band CXXV, Stück 12.

The Indian Medical Gazette, Nos. 10 aml 11.

The American Journal of Science and Arts, No. 125, for September, 1866.

The Edinburgh Review, Vol. CXXIV, No. 254.

The Annals of Indian Medical Science, Nos. 19, 20 and 21.

The London and Edinburgh Philosophical Magazine and Journal of Science, Vol. XXXII, No. 217.

LIST OF MEMBERS

OF THE

ASIATIC SOCIETY OF BENGAL,

ON THE 31st DECEMBER, 1866.

LIST OF ORDINARY MEMBERS.

The * distinguishes Non-Subscribing and the † Non-Resident Members.

Date of Election.		
1847 June 2.	†Abbott, BrigdrGenl. J., Royal Artillery,	Dinapore
1860 Dec. 5.	Abdool Luteef, Khan Bahadur, Mau-	
355	lavi.	Calcutta
1865 June 7.	Agabeg, J. Esq.	Calcutta
1860 July 4.	†Ahmad Khan, Saied, Bahadur,	Allyghur
1862 April 2.	+Aitchison, C. U. Esq., C. S.	Lahore
1862 April 4.	+Aitchison, J. E. T. Esq., M. D.	Umritsar
1859 Feb. 2.	*Alabaster, C. Esq.	China
1866 Jan. 0.		Allahabad
1852 July 7.	*Allen, C. Esq., B. C. S.	Епторе
1864 May 4.		Purneah
1860 Oct. B.		Calcutta
1861 May 1		Calcutta
1865 Jan. 11		Calcutta
1843 Sept. 4		
	Artillery,	Europe
1866 July 4	†Anderson, A. Esq.	Fygabad
1864 Dec. 7		Calcutta
1860 Nov. 7		Sarun
1861 Sept. 4		Calcutta
1861 July 3	*Asphar, J. J. T. H. Esq.	Europe
1864 Dec. 7		Jaunpore
1855 July 4		Calcutta
	Ansten, Capt. H. H. G., H. M.'s	
	24th Foot, Surv. Genl.'s Dept.	Dehra Dhoon
1826 Sept. 6	A CONTRACTOR OF THE PROPERTY O	Calcutta
1835 Oct. 7	*Baker, Col. W. E., Bengal Engineers.	Europe
1865 Nov. 1		Calcutta

Date of Election	084-		
1866 Sept.	5.	Ballard, LieutCol. H., C. B.	Calcutta
1860 Nov.	7.	Banerjea, Rev. K. M.	Calcutta
	4	Barry, Dr. J. B.	Calcutta
1864 May		Barton, Rev. J.	Calcutta
1866 Jun.		+Basevi, Capt. J. P., Royal Engineers.	Dehra Dhoon
1862 Aug.	6.	*Batten, G. H. M. Esq., B. C. S.	Europe
1860 July	4.	*Batten, J. H. Esq., B. C. S.	Europe
1838 Jan.	3.	Bayley, E. C. Esq., B. C. S.	Calcutta
1859 May	主	Bayley, S. C. Esq., B. C. S.	Calcutta
1861 Feb.	6.	Beadon, Hon'ble Sir Cecil, B. C. S.	Calcutta
1849 June	6.		f Motehary
1864 Sept.	7.	†Beames, J. Esq., B. C. S.	Champarun
1931 Asset	7.	Beaufort, F. L. Esq., B. C. S.	Calcutta
1841 April		*Beavan, Lient. R. C., late 62nd	
1861 Sept.	384	B. N. I.	Europe
1847 4	1	Beckwith, J. Esq.,	Allipore
1847 Aug.		*Benson, LieutCol. R.	Europe
1830 Sept.	3470	†Bernard, C. E. Esq., B. C. S.	Nagpore
1862 Dec.	6.	Beverley, H. Esq., C. S.	Calcutta
1862 Aug.		†Bhau Daji, De.	Bombay
1862 June		Bhola Nath Mullick, Bábu.	Calcutta
1862 July	56.71		Chinsurah
1864 Nov.			Constitution .
1840 July	.40.	K. C. B.	Епторе
1964 Man	. 4		Howrah
1864 May	172.1		44011111111
1846 Mar.	4.	B. N. L	Europe
1859 Sept.	7.		Calcutta
	- (4		
1857 Mar.	190		Calentta
TOTAL AND		F. G. S. +Blanford, W. T. Esq., A. R. S. M.,	
1859 Aug.	. 3.	F. G. S. Geol. Surv.	Bombay
TO01 1	1 10		Calcutta
1864 Apri		*Bogle, Lieut Col. Sir A., Kt.	Europe
1857 Aug			Calcutta
1859 Aug	1.4	ACCOUNT OF THE PARTY AND THE P	Calcutta
1866 June			Europe
1859 Oct.		*Remott Dr T B M S	Епторе
1854 Nov.		The state of the same of the s	Hooghly
1865 May			Europe
1860 Mar.			Calcutta
1860 Oct.	100		Calcutta
1864 Dec.			Europe
1862 Jan.		The second of th	Augur W.
1866 Apr	11:3	A Tarrellangue A version wanted that age	Mulwa Central
			India Horse
10 47 To-	. 0	*Brodie, Capt. T., 5th Regt., B. N. I	
1847 Jun	数三円	- Thomat ciable will man said all and said	The second second

Date of Election.

Court of Hispornia		
1866 Jan. 17.	4 Reams Tioni Car r	0.107
1860 Nov. 7.		Amherst
1866 Feb. 7.	Browne, Capt. Horace A.	Rangoon
		Calcutta
1866 June 6.	The control of the same	Gowhatty
1866 June 6.	Buckle, Dr. H. B., C. B.	Colombia
1863 Aug. 5.	Bunkim Chunder Chatterjee, B. A.	SAMPSHIE SH
4444.4	Dang.	Rarringe
1856 Sept. 3.	Busheerooddin, Sultan Mehammad.	Chinsurah
10000		Ontmentate.
1860 June 6.	†Campbell, C. J. Esq., C. R.	73.37.7
1859 Sept. 7.	*Campbell, Dr. A.	Delhi
1863 June 3.	Campbell, Hon'ble G.	Europe
1860 Jan. 3.	+Curnae J H Pinne B. D C C	Calcutta
1865 Nov. 1.	†Carnac, J. H. Rivett, Esq., B. C. S. †Carnegy, P. Esq.	
1860 Oct. 3.	Christian T E	Fyzabad
1863 Ang. 5.	†Christian, J. Esq.	Monghyr
	†Chunder Nath Roy, Cowar,	Natore
1863 April 1.	Cleghorn, Dr. H.	Calcutta
1863 June 3.	†Clementson, E. W. Esq.	Moulmein
1864 May 4.	†Cline, G. W. Esq. L.LD. F. G. S.	Nagpore
1861 Sept. 4.	†Cockburn, J. F. Esq., C. E.	Kurhurbari
There is not a second		Colliery
1862 April 2	Colles, J. A. P. Esq., M. D.	Calentta
1851 Mar. 5.	"Colvin, J. H. B. Eso, R C S	Emm
1860 Dec. 5.	†Cooper, F. H. Esq., B. C. S.	Europe
1857 Mar. 4.	*Cowell, E. B. Esq., M. A.	Labore
1866 May 2.	*Cox, W. H. Esq.	Europe
1866 Jan. 17.	Crawford, J. A. Esq., C. S.	Europe
1861 July 3.	*Crockett, Oliver, R. Esq.	Calentta
25 20	Security Officer, 18, 18d.	China
1866 Feb. 7.	†Daly, N. Esq.	
- NONO. 16	Lowy, M. Ded.	Myanoung
1862 April 2.	FD-1	Burma
	*Dalrymple, F. A. E. Esq., C. S.	Europe
1847 June 2.	+Dalton, Lient, Col. E. T., 9th Regt.	Chota Nag-
1861 Mar. 6.	D. W. L.	pore
1861 Mar. 6.	+Davey, N. T. Esq., Revenue Survey.	Dacca
1865 May 3.	APRICATION, L.S. PROPERTY	Rotasghur
1861 Nov. 6.	† Davies, R. H. Esq., B. C. S.	Ondle
1864 July 6.	1 avecomina million, Pann	Calcutta
1856 June 4.	TheBourbel, Major R. Rengel Enge	
1861 June 5	*Denison, His Excellency Sir W.	Assum
	K, C. B.	p.
1863 Feb. 4.	Deo Narain Singh, Hon'ble Rajah.	Епгоре
1863 June 3.	Depree, Capt. G. C., Royal Artillery,	Benares
	and a story atoyat airtillery,	Chota Nag-
1861 Mar. 6.	*Davereny Hon'ble II D D	pore
	*Devereux, Hon'ble H. B., B. C. S.	Europe
20 (10)	Dhunpati Sinha Dooghur, Roy Bahadur,	
	areaning UP.	Azimgunge
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Date of Election.		-
1853 Sept. 7.	Dickens, LieutCol. C. H.	P. Townson
1860 Nov. 7.	Digumber Mitra, Bâbu.	Calentia
1859 Sept. 7:	*Douglas, Lient, Col. C.	Calcutta
1854 July 5.	Drummond, Hon'ble E., B. C. S.	Europe
1864 Dec. 7.	*Dunlop, H. G. Esq.	Allahabad
1860 Jan. 4.	Duka, Dr. T.	Europe
	Dukin Die Le	Simla
1861 May 1.	*Earle, Capt. E. L., Bengal Artillery.	Europe
1857 May 6.	"Eatwell, Dr. W. C. B.	Enrope
1840 Oct. 7.	*Edgeworth, M. P. Esq., B. C. S.	Europa
1863 May 6,	† Edgar, J. W. Esq., B. C. S.	Cachar
1865 Feb. 1.	† Egerton, P. H. Esq., B. C. S.	Umritsar
1846 Jan. 7.	"Elliott, Walter, Esq., M. C. S.	Europe
1859 Nov. 2,	TEHIOIT, C. A. Esq., B. C. S.	Enttebghur
1863 April 1.	TEUIS, Hon ble R. S., C. S., C. B.	Madras
1856 Mar. 5.	"Ettin, LientCol. R. R. W., 23rd	
100 No. 10	Regt. B, N. I.	Europe
1854 Nov. 1.	Elphinstone, Capt M. W 4th Regt.	
1001 T	B, N, L	Lahore
1861 Jan. 9.	†Erskine, Hon'ble C. J., Bombay C. S.	Bombay.
1856 Aug. 6.	"Erskine, Major W. C. B.	Enrope
1868 Oct. 7.	Ewart, Dr. J.	Calcutta
1862 Aug. 6.	*Eyre, Col. Vincent, C. B.	Europe
1865 June 7.	P	
1851 May 7.	Fawens, Dr. J.	Calcutta
1863 Jan. 15.	Fayrer, Dr. J., B. M. S.	Calcutta
1865 Aug. 2.	†Fedden, Francis, Esq., Geol. Survey. Fenn, S. Esq.	Calcutta
1859 Oct. 12	†Fisher, A. Esq.	Calcutta
1860 Mar. 7.	*Fitzwilliam, Hon'ble W. S.	China
1865 April 5.	*Fleming, Dr. J. M. 29th P. N. I	Emmpe
1861 Feb. 6.	From R Res Civil P. N. 1	Ettrope
1863 Dec. 2.	†Forrest, R. Esq., Civil Engineer, †Forsyth, Lient J.	Etwah
1868 June 3.	Porcyth, T. D. Esq., C. B.	Nagpore
1860 Mar. 7.	TFrere, His Excellency Sir H. Bartle,	Lithure
Prince and the	K. C. B., B. C. S.	n i
1861 Sept. 4.	+Fuller, Capt. A. R.	Bombay
1859 Oct. 12.	†Furlong, Major J. G. R.	Lahure
1859 Dec. 7.	Futteh Ali, Maulavi.	Agra
1849 Sept. 5.	†Fytche, LieutCol. A. 70th Regt.	Calcutta
	B. N. L.	Rungson
ACCOUNTS TO		Rangoon
1866 Jan. 17.	G. M. Tagore, Esq.	Calcutts
1864 Aug. 11.	†Garrett, C. B. Esq., C. S.	Cliaprah
1859 Aug. 3.	Gastrell, Lient-Col. J. E., 18th	C. Maria
	Regt. N. I., Rov. Sarvey,	Calcutta
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Date of Election.		
1859 Sept. 7.	*Geoghegan, J. Esq., B. C. S.	Europe
1865 June 7.	†Giles, A. H. Esq.	Dinajpore
1842 Sept. 2.	*Gladstone, W. Esq.	Europe
1859 Sept. 7.	*Goodeve, E. Esq., M. D.	Europe
1862 July 2.	Gordon, J. D. Esq., C. S.	Calcutta
1864 Dec. 5.	†Gooroochurn Dáss Bábu.	Jaugipore
1862 Feb. 5.	†Gourdoss Bysack, Bábu.	Jahanabad
1863 Nov. 4.	†Gowan, Major J. G.	Sirhind Divi-
1000 TION 18-	Tournai, italor o. G.	The second secon
1859 Dec. 7.	*Grant, Sir J. P., K. C. B.	sion, Umbala Europe
1860 Jan. 4.	Grant, T. R. Esq.	Calcutta
1860 July 4.	Grey, Hon'ble W., B. C. S.	Calcutta
1866 June 6.	†Gribble, T. W. Esq., B. C. S.	COMPANY OF THE PARTY OF THE PAR
1861 Sept. 4.	Griffin, L. Esq., B. C. S.	Sasseeram Lahore
1860 Nov. 7.	+Griffith, R. T. H. Esq.	Benares
1849 Ang. 1.	Grote, A. Esq., B. C S., F. L. S.	Calentta
1861 Feb. 6.	†Growse, F. S. Esq., B. C. S.	200
1862 Feb. 5.	*Guthrie, Col. C. S., Bengal Engrs.	Mynpoorie
A17574 A. 0.01-	Gutanie, Con. C. S., Dengar langis.	Europe
1847 June 2.	*Hall, F. E. Esq., M. A., D. C. L.	Europe
1866 Jan. 17.	+Hamilton, Capt. T. C.	Moulmein
1863 June 3.	*Hamilton, Col. G. W.	Europe
1855 Mar. 7.	†Hamilton, R. Esq.	Bombay
1828 Nov. 12.	*Hamilton, Sir R N E., Bart., B. C. S.	Europe
1847 May 5.	*Hannyngton, Col. J. C., 63rd Regt.	17/2/01/01/01
- 17/2	N. L.	Europe
1859 Oct. 12.	*Hardie, Dr. G. K.	Europe
1866 Nov. 7.	Harendra Krishna Kumar.	Calcutta
1863 Mar. 4.	Hári Dáss Dutt, Bábu.	Calcutta
1862 Oct. 8.	*Harington, Hon'ble H. B.	Europe
1860 Oct. 3.	†Harris, E. B. Esq., C. S.	E I Rallway
		Rohnee W.
	Marie N. W. T. Marie D. A.	Deoghur
1861 Feb. 6.	†Harrison, A. S. Esq., B. A.	Behar,
1864 Nov. 2.	Hatton, C. W. Esq.	Calcutta
1859 Oct. 12.	†Haughton, Lieut Col. J. C., C. S. I.	Julpigorie
1848 May 3.	"Hearsay, Maj, -Gl. Sir J. B , K. C. B.	Europe
1862 Aug. 6.	†Heeley, W. L. Esq., C. S.	Berhampore
1866 April 4.	Henry, N. A. Esq.	Calcutta
1859 Aug. 3.	Henessey, J. B. N. Esq.	Calentta
1853 July 6.	+Herschel, W. J. Esq., B. C. S.	Midnapore
1854 Mar. 1.	*Hichens, Lient. W., Bengal Engrs.	Europe
1866 Jan. 17.	Hicks, J. G. Esq.	Calcutta
1860 May 2.	Hobbouse, C. P. Hon'ble B. C. S.	Calcutta
1859 Sept. 7.	+Hopkinson, H. LientCol. H.	Assam
1863 July 1.	+Horne, C. Esq., C. S.	Mynpoorie
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Date of Election.		
1986 May 7	The Mark T. I. D	44.00
1860 Mar. 7.	Hovenden, Major J. J., Bengal Engrs.	Calcutta
1863 Jan. 15.	Howell, M. S. Esq., C. S.	Shajehanpore
1866 Jan. 17.	Hughes, Lieut, W. G.	Martaban
1866 Feb. 7.	Hoyle, G. W. Esq.	Calcutta
1866 Mar. 7.	†Irvine, W. Esq., C. S.	Muzafernagar
1860 Jan. 4.	†Innes, Major J. J. M.	Lahore
1862 Oct. 8.	Irwin, Valentine, Esq., C. S.	Narail, Jessore
1853 Dec. 7.	†IshureeprasadSinha,Bahadur,Rajah.	Benares
1864 Sept. 7.	*Jackson, Hon'ble E.	Europe.
1861 Jan. 9.	Jackson, Hon'ble L. S., B. C. S.	Calcutta
1841 April 7.	*Jackson, W. B. Esq., B. C. S.	Europe
1851 April 2.	Jadava Krishna Singha, Babu.	
1861 Dec. 4.	James, Major H. R., C. B.	Calcutta Calcutta
1864 Sept. 7.	*Jardine R Esc. C S	Emm
1845 Dec. 3.	*Jardine, R. Esq., C. S., †Jerdon, Dr. T. C., M. M. S.	Europe
1866 Feb. 7.	†Johnson, W H. Esq.	Mussoorie Dehra
1847 June 2.	Johnstone, J. Esq.	100
1862 Mar. 5.	*Johnstone, Capt. J., Assistant Com-	Europe
	missioner.	Europe
1859 Sept. 7.	*Jones, R. Esq.	Епгора
1865 June 7.	+Joykissen Dass Bahadur, Rajah.	Allyghur
		arm's Sum
1866 Mar. 7.	Kadar Nath Mookerjee.	Bhowanipore
1858 Feb. 3.	Kaliprosonno Singha, Bábu.	Calcutta
1863 July 1.	*Kane, H. S. Esq., M. D.	Епторе
1850 April 3.	*Kay, Rev. W., D. D.	Europe
1861 Dec. 15.	†Kempson, M. Esq., M. A.	Bareilly
1862 Jan. 15.	King, W. Esq., Jr., Geol. Survey.	Madras
2000 11 0		· · · · · · · · · · · · · · · · · · ·
1839 Mar. 6.	*Laidlay, J. W. Esq.	Europe
1861 Mar. 6.	*Laing, Hon ble S.	Europe
1863 Sept. 2.	Lane, T. B. Esq., B. C. S.	Calcutta
1851 Dec. 3.	†Layard, Major F. P.	Bhagulpere
1864 Feb. 3.	†Leeds, H. Esq , Conservator of Forests.	Burmah
1852 April 7.	Lees, Major W. N., LL. D.	Calcutta
1859 Dec. 7.	Leonard, H. Esq., C. E.	Calcutta
1865 June 7.	†Lewin, Capt. T. H.	Chittagong
1856 Feb. 6.	*Liebig, Dr. G. Von., B. M. S.	Europe
1860 Jan. 4.	Lindsay, E. J. Esq.	Calcutta
1861 Nov. 6.	†Lloyd, Capt. M.	Tounghoo
1862 Dec. 3,	Lobb, S. Esq., M. A.	Calcutta
1835 Oct. 7.	Loch, Hon'ble G., B. C. S.	Calcutta
1864 Nov. 2.	Locke, H. H. Esq.	Calcutta
1866 May 2.	+Lovett, Lieut, B.	Punjah
1828 July 2.	*Low, Major-General Sir J., K. C. B.	Europe

Date of Rivetion.	Y	
1866 Jan. 17	AT AND TANKS IN CO. III O	A CANADA CANADA
1861 April 3		Dehra Dhoon
1854 Nov. 1		Europe
1004 1101/	*Lushington, F. A. Esq., B. C. S.	Europe
1866 Mar. 7.		Monghyr
1866 June 6.	+Macdonald, Capt. J. Staff Corps.	Chandu Divi
AND THE RESERVE AND THE RESERV	Transfer of the second	sion. Nagman
1848 April 5.	+Maclagan, LientCol. R., F. R. S. E	Laboro
1866 Jan. 17.	TMaegregor, Lient C.	Buxa
1865 Nov. 1.	Mackenzie, A. Esa., C. S.	Calcutta
1863 Jan. 15.	Maine, Hon'ble H. S.	Calcutta
1860 Jan. 4.	Mair, D. K. Esq., M. A.	Calcutta
1865 Mar. 1.	Malleson, Major G. B.	Calcutta
1862 Sept. 3.	Mallet, F. R. Esq.	Calcutta
1860 July 4.	†Man, E. G. Esq.	Burdwan
1852 Nov. 3.	Manickjee Rustomjee, Esq.	Calcutta
1861 June 5.	†Man Sinha Bahadur, Maharajah.	Ondli
1864 Aug. 11.	*Marks, Rev. J. Ebenezer.	Europe
1850 Jan. 2.	*Marshman, J. C. Esq.	Enrope
1866 July 4.	Mathews, J. H. Eeq.	Calcutta
1863 Oct. 7.	†Martin, T. Esq., C. E.	Gowhatty
1863 Nov. 4.	*McClelland, Dr. J.	Europe
1837 Oct. 4	†McLood, Hon'ble D. F., C. B., B. C.S.	Lahore
1860 Mar. 7.	†Medlicott, H. B. Esq., F. G. S.	Gwalior
1861 Feb. 6	+Melville, Capt. A. B., late 67th N. I.	
1855 Nov. 7.	Surv. Genl.'s Dept.	Gwalior
	*Middleton, J. Esq.	Europe
1850 April 3,	*Mills, A. J. M. Esq., B. C. 8.	Europa
1847 April 7, 1856 Feb. 6.	*Money, D. J. Esq., B. C. S. Money, J. W. B. Esq.	Europe
TRANSPORT (1971) 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Money, J. W. B. Esq.	Calcutta
THE PARTY OF THE P	Morland, Major J.	Umballa
1864 June 1.	†Morris, G. G. Esq., B. C. S.	Jessone
YOU'T ATTIE T	+Moula Bukhsh, Khan Bahadur,	44.00
1837 July 5.	Maulvi	Patm
1854 Oct. 11.	*Muir, J. Esq.	Europe
1859 Aug. 3.	Muir, Hon'ble W., B. C. S.	Calcutta
Tool Lings S.	†Murray, Lieut. W. G., 68th N. I.	Mussoorie
1862 July 2.	+Napler, His Excellency Major-Gent.	
THE PERSON NAMED IN	Sir R., K. C. B.	Donton
1860 Nov. 7.	*Newmarch, Major C. D.	Bombay.
1865 Feb. 1.	+Newul Kishwar, Moonshee.	Europe
1852 Sept. 1.	"Nicholls, Capt. W. T., 24th Regi-	Lucknow
200 100	ment, M. N. L.	Furnis
1863 Sept. 2	Norman, Major F. B.	Europe
1863 Jan. 15	Norman, Hon'ble J. P.	Calcutta
	Committee Committee and All All	Calcutta

Dute of Electi	on		1
1860 June	4.	+Oldham, C. Esq., Geological Survey.	Madras
1851 June	4.	Ohlham, T. Esq., LL. D., F. R. S.	Calcutta
1864 Dec.	7.	Onslow, D. B. Esq.	Barrackpore
1866 July	4.	Ormsby, M. H. Esq.	Calcutta
1827 June	7.	*O'Shaughnessy, Sir W. B.	Europe
1847 Feb.		*Ousely, Major W. R.	Europe
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- Control
1864 Mar.	2,	Palmer, Dr. W. J.	Calcutta
1862 May	7.	Partridge, S. B. Esq., M. D.	Calcutta
1860 Feb.	1,	Pearse, Major G. G.	Madras
1864 Mar.	2,	Pellew, F. H. Esq., C. S.	Burrial
1865 Sept.	6.	†Peppe, J. H. Esq.	Gya
1835 July	1	†Phayre, LtCol. A P , C B.	Rangoon
1864 Nov.	2.	Phear, Hon'ble J. B.	Calcutta
1862 Oct.	8.	Poolin Behary Sen, Bábu.	Berhampore
1839 Mar.	6.	Pratt, Ven'ble Archdeacon J. H., M.A.	Calcutta
1860 Jan.	4.	Preonath Sett, Babu.	Calcutta
1825 Mar.	9.	*Prinsep, C. R. Esq.	Europa
1827 Feb.	1,	Prosonno Coomar Tagore, Babu.	Calcutta
1864 Feb.	3,	†Pullan, Lieut. A., G. T. Survey.	Dehra Dhoon
# M M M M M M M M M M M M M M M M M M M	-	770A17-747	NAMES OF TAXABLE PARTY.
1862 April	2.	Raban, Lieut,-Col, H.	Calcutta
1853 April	6,	Radha Nath Sikdar, Bābu.	Calcutta
1849 Sept.	5.	Rajendra Dutt Bábu.	Calcutta
1856 Mar.	5.	Rajendalála Mitra, Bábu.	Calcutta
1864 May	4.	Ramanath Bose, Bälse.	Calcutta
1837 Feb.	1,	Ramanath Tagore, Babu.	Calcutta
1865 July	5.	+Ramsden, Lieut. W. C.	Cawapore
1866 Jan.	17.	Rattray, A. Esq.	Hidgelee Kan-
1000 11	440	170 11 FE D. 18	tee
1860 Mar.	7.	†Reid, H. S. Esq.	Qudh
1864 Dec.	7,	†Richardson, R. J. Esq., C. S.	Gyn
1857 June	7.	Riddell, Hon'ble H. B., B. C. S.	Calcutta
1857 Ang. 1863 April	6.	†Roberts, Hon'ble A. A., B. C. S.	Panjab
1864 Dec.	7.	†Robertson, C. Esp., C. S.	Nyne Tal
1863 May	17.54	†Robertson, E. S. Esq.	Azimghar
1865 Feb.	6.	†Robertson, H. D. Esq., C. S.	Saharunpore
1847 Dec.	T	Robinson, S. H. Esq.	Calcutta
1866 Dec.	5.	*Rogers, Capt. T. E.	Europe
1859 Sept.	7.	Ross, J. M. Esq.	Calcutta
- out to the	-	Russell, A. E. Esq., B. C. S.	Hoogly
1865 June	7.	Sárodáprosád Mookerjee, Bábu.	Baraset
1859 Feb.	2	Satischunder Roy Mahárajah.	Krishnagur
1856 Aug.	6.	Satyasharana Ghosal, Rajah.	Bhookylas,
		S. S	Calcutta
1861 Dec.	4.	†Saunders, C. B. Esq., B. C. S.	Mysore
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Date of Election.		1
1864 June 1.	*Saunders, J. O'B. Esq.	MACHINE .
1854 Dec. 6.	†Saxton, LtCol. G. H., F. G. S.,	Europe
,400 L 2000 00 .00	38th M. N. L.	A. A.
1854 May 2,	Sabiltar P Page	Ganjam
1860 Feb. 1.	Schiller, F. Esq.	Calcutta
1859 Aug. 3.	*Scott, Col. E. W. S.	Europe
1866 Jan. 17.	†Scott, W. H. Esq.	Dhera Dhoon
	*Seaton, Lient, G.	Europe
1863 Sept. 3.	Sama Churn Sirkar, Bábu.	Calcutta
1860 July 4.	†Shelverton, G. Esq.	Dhera Dhoon
1866 Sept. 5.	Sherer, Capt. F. S.	Gowhatty
1845 Jan. 14.	*Sherwill, LtCol. W. S., 66th Regi-	Trans
1000 A 1	ment B, N. L, F. G. S., F. R. G. S.	Europe
1868 April 1.	Showers, Major C. L.	Calcutta
1864 Feb. 3.	Shumbhoonath Pundit, Hon'ble,	Calcutta
1866 June 6.	Sime, J. Esq., B. A.	Calcutta
1864 Sept. 7.	+Sladen, Capt. E. B.	Mandalay
1866 June 6.	+Smart, R. B. Esq.	Assam:
1865 July 5.	Smith, D. Boyes, Esq., M. D.	Calcutta
1856 Feb. 6.	*Smith, Col. J. F.	Europa
1866 May 2.	†Soorut Nauth Mullick, Baboo.	Howrah
1854 Sept. 6.	Spankie, R. Esq., B. C. S.	Адта
1864 Mar. 2.	†Spearman, Lieut. H. R.	Yangzaleen
		British Bur-
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1860 May 2.	+Staunton, Major F. S., Beng. Engs.	Darjiling
1843 Sept. 4	"Stephan, Major J. G., Sth N. I.	Europe
1863 Jan. 15.	Sterndale, R. A. Esq.	Calentta
1863 May 6.	tStevens, W. H. Esq.	Futtyghur
1863 Sept. 2.	Stewart, R. D. Eso.	Calentta
1864 April 6.	Stewart, J. L. Esq. M. D. Stokes, Whitley, Esq.	Lahore
1861 Sept. 4.	Stokes, Whitley, Esq.	Calcutta
1863 Nov. 4.	Stoliczka, Dr. F.	Calcutta
1843 May 3.	†Strachey, LaCol. R., F. R. S.	C. Hallanda
	F. L. S., F. G. S.	Bombay
1859 Mar. 2.	†Stubbs, Capt. F. W., Beng. Artillery.	Govinghur
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1861 Oct. 2.	†Sudderuddin, Moonshi.	Pundooah
1858 July 7.	Sutherland, H. C. Esq., B. C. S.	Backergunje
1864 Aug. 11,	Swinhoe, W. Esq.	Calcutta
200	Z-ATWARDUNGTON	Caronea
1865 Sept. 6.	Tawney, C. H. Esq.	Calmitte
186b April 5,	†Taylor, R. Esq.	Calcutta
1860 May 2.	Temple, R. Esq., B. C. S.	Madras
1859 Mar. 2.	Theobald, W. Esq., Jr., Goological	Nagpore
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	Date of Election	.		
	1860 June	6.	Thompson, J. G. Esq.	Calcutta
		4.	+Thompson, Major G. H., Bengal	
	redo mar.	4.	Staff Corps,	Hazareebaug
	TORK Tone	6.	*Thompson, Dr. T., M. D., F. R. S.,	Marine Ma
	1855 June	0.	F. L. S., F. B. G. S.	Europe
	***********************		+Thornhill, C. B. Esq., B. C. S.	Allahabad
	1853 Nov. 2		Thornant, C. B. Esq., B. C. S.	Murree, Punjah
١		4	Thornton, T. H. Esq.	Trent toule orning
	1847 June	2	Thuillier, LtCol. H. L., F. R. G S.,	Calcutta
	District 1	27	Bengal Artillery.	Control of the Contro
	1863 May	6.	Thuillier, Lt. H. R.	Calentta
	DISTURBANCE.	2.	*Thurlow, Hon'ble T. J. H.	Europa
	1865 July	5.	Tolbort, T. W. H. Esq., C. S.	Panjab
	1865 July	5,	Tonnerre, Dr. C. F.	Calcutta
	1862 Feb.	Ď.	†Torrens, Col. H. D.	Sangor
	1861 June	ð,	+Tremlett, J. D. Esq., C. S.	Goorranualla,
			20.2	Luhore
	1863 Mar.	4.	"Trevelyan, Right Hon'ble Sir C,	100
			K. C. B.	Europe
	1841 Feb.	8.	Trever, Hon'ble C. B., B. C. S.	Calcutta
	1863 Feb.	4.	Trever, E. T. Esq., B. C. S.	Europe
	1864 Mar.	2	*Trever, Lt. E. A. Royal Eng.	Europe
	1464 July	6.	+Trotter, Lient, H. Bengal Eng.	Meerut
i	1864 Sept.	4.	Tween, A. Esq., Geological Survey.	Calcutta
	1863 May	6.	†Tyler, Dr. J.	Etah
		120	1 2200	
	1860 May	2,	+Vanrenen, Capt. A. D., late 71st	
	4500 540	-	B. N. L.	Lahore
	1864 Feb.	3.	†Verchere, A. M., Esq., M. D.	Kohat
	1864 April	6.	†Vijayarama Gajapati Baj Munnia	December 1
	ASSES SALISM	1,000	Sultan Bahadur, Maharajah Mirza,	Vizianagaram
			Dutini	
	1865 Nov.	1.	Waldie, D. Esq.	Calcutta
	1861 May	1.		
		2,		Shahapur, Pan-
	1863 Dec.		I at testinal and an amole	jab
	1000 Man	0	*Wall, P. W. Esq., C. S.	Europe
	1863 May	6.		Calcutta
	1863 Oct.	7.	Walters, Rev. M. D. C.	Calcutta
	1863 Dec.	-740	AW B C P Page R C S	Dehra Dhoon
	1862 Jan.	15.	+Ward, G. E. Esq., B. C. S.	Europe
	1852 July	7.	Ward, J. J. Esq., B. C. S.	Charles of the Control of the Contro
	1859 July	6,	*Warrand, R H. M. Esq., B. C. S.	Europe
	1865 May	8,		Calcutta
	22222		tillery.	market and the National
	1854 July	5	*Watson, J. Esq., B. C. S.	Enrope
	1847 Nov.	3.	*Waugh, Major-General Sir A. S.	Thursday
	2-4		C. B., F. R. S., F. R. G. S.	Europe
	1862 Oct.	8	Wheeler, J. T. Esq.	Calcutta

Date of Election	m.		
1864 Mar, 1861 Sept, 1859 Sept, 1859 Aug, 1865 Feb, 1866 Mar, 1861 May 1859 Mar, 1862 Aug,	9; 4. 7; 8; 1. 7; 7; 9; 6.	Wilkinson, C. J. Esq. †Williams, Dr. C., H. M.'s 68th Regt. †Wilson, W. L. Esq. †Wilmot, C. W. Esq. †Wilmot, E. Esq. †Wise, Dr. J. F. N. Woodrow, H. Esq., M. A. *Wortley, Major A. H. P. Wylie, J. W. Esq., Bambay C. S.	Calcutta Rangoon Beerbhoom Deoghur Delhi Dacca Calcutta Europe Calcutta
1855 April 1856 July	4. 2.	*Young, LtCol. C. B. *Yule, LtCol. H.	Europe Europe

LIST OF HONORARY MEMBERS.

Date of Election	m:		
1825 Mar.	9.	M. Garcin de Tassy, Membre de l' Inst.	Paris
1826	1.	Sir John Phillippart.	London
1829 July	1.	Count De Noe.	Paris
1831 Sept.	7.	Prof. Francis Bopp, Memb. de l' Aca-	
Tour roope	30	démie.	Berlin
1831	7.	Prof. C. Lassett,	Bonn
1834 Nov.	5.	Sir J. F. W. Herschel, F. R. S.	London
1834	5.	Col. W. H. Sykes, F. R. S.	London
1835 May	6.	Prof. Lea.	Philadelphia
1840 Mar.	4	M. Reinaud, Memb, de l' Instit., Prof.	Transmission and the second
ACTO DAME.	3	de l' Arabe,	Paris
1842 Feb.	4.	Dr. Ewald.	Göttingen
1842	4	Right Hon'ble Sir Edward Ryan, Kt.	London
1843 Mar.		Prof. Jules Mohl, Memb, de l'Instit.	Paris
1847 May	5.	His Highness Hekekyan Bey.	Egypt
1847 Sept.	i.	Col. W. Munro.	London
1847 Nov.	8.	His Highness the Nawab Nazim of	and and a
4.0-81 200×1	1,444	Bengal.	Moorshedabad
1848 Feb.	2.	Dr. J. D. Hooker, R. N., F. R. S.	London
1848 Mar.	8:	Prof. Henry Princeton.	United States
1853 April	-20	Major-Gen. Sir H. C. Rawlinson, K. C.	- Comment to the control
Access Tribure	709	B., F. R. S., D. C. L.	London
1854 Aug.	2.	Col. Sir Proby T. Cautley, K. C. B.,	2504004
4002 Milg.	-	F. R. S.	Loudon
1855 Mar.	7.	Rájá Rádhákánta Deva, Báhádur,	Brindahun
1858 July	6.		Europe
1859 Mar.	9	Hon'ble Sir J. W. Colvile, Kt.	Europe
1860	7.	Prof. Max Müller,	Oxford
1860 Nov.	7.		Paris
2000	7.		
1000	7,	Dr. Robert Wight.	London
TORO	7.	Edward Thomas, Esquire,	London
THE R. LEWIS CO., LANSING	2	Dr. Aloys Sprenger.	Germany
1000	7.	Dr. Albrecht Weber.	Berlin
1865 Sept.	. 6.		Europe
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LIST OF CORRESPONDING MEMBERS.

1844 Oct.	2	MacGowan, Dr. J.	Europe
1856 June	4.	Kremer, Mons, A. Von.	Alexandria
1856 n	4.	Porter, Rev. J.	Damasens
1856 ,,	4.	von Schlagintweit, Herr H.	Berlin
1000	4.	Smith, Dr. E.	Beyrout
1856 "	4.	Tailor, J., Esquire.	Bussorah
1856	4.	Wilson, Dr.	Bombay
1857 Mar.	4.	Neitner, J., Esquire.	Coylon

Date of Electi	m.		
1860 Feb. 1860 April 1861 July 1862 Mar, 1863 July 1863 July 1866 May	4.1.1.4.8.5.5.4.7.	Baker, Rev. H. Swinhoe, R., Esq., H. M.'s Consulate, Hang, Dr. M.	Berlin Batavia Batavia E. Malabar Amoy Poonah Berlin London London Ceylon Prussia Europe

LIST OF ASSOCIATE MEMBERS.

1835 Oct.	7. Stephenson, J., Esquire.	the second
1838 Feb.	7. Keramut Ali, Saied.	Europe
1843 Dec.	6. Long, Rev. J.	Hooghly
		Calcutta
and a series	3. Dall, Rev. C. H. A.	Calcutta

ELECTIONS IN 1866.

Corresponding Members.

Schlagintweit, Prof. E. Von. Sherring, Rev. M. A.

Russia Europe

Ordinary Members.

Major A. S. Allan. Rev. J. Barton. Lieut.-Col. D. Brown. J. A. Crawford, Esq., C. S. *G. M. Tagore, Esq. Capt T. C. Hamilton. J. G. Hicks, Esq. Lieut, W.G. Hughes, James Low, Esq. A. Rattray, Esq. A. Mackenzie, Esq., C. S. Lient, G. Seaton. N. Daly, Esq. *Rev. J. Cave Browne. G. W. Hoyle, Esq. W. H. Johnson, Esq. Baboo Kadar Nath Mookerjee. Dr. J. F. N. Wise. W. Irvine, Esq., C. S. A. P. Macdenall, Esq., C. S. N. A. Henry, Esq. H. C. Broderick, Esq., M. D.

W. H. Cox, Esq., Lieut. B. Lovelt. Baboo Soorat Nath Mullick, W. M. Bourke, Esq. C. Brounfield, Esq. Dr. H. B. Buckle, C. B. T. W. Gribble, Esq., B. C. S. Capt. J. Macdonald.

J. Sime, Esq., B. A.,
R. B. Smart, Esq.
A. Anderson, Esq.
J. H. Mathews, Esq.
M. H. Ormsby, Esq.
Capt. F. S. Sherer,
Lient. Col. H. Ballard, C. B.
Kumar Harendra Krishna Bahadoor,
J. M. Ross, Esq.

Allahabad Calcutta Amherst Calcutta Calcutta Montmein Calcutta Martaban Dehra Dhoon. Hedgellee Kantai Calcutta Tenasserim. Myanoung Burma Calcutta Calcutta Dehra Calcutta Dacca Mozufurnugger Calcutta Calcutta West Malwa Augur Cent. Malwa Horse Krishnagur Kohat, Punjab Howrah Calcutta Gowhatty Calcutta Sussercem Chanda Division, Nagpore Calcutta

Dacca

Fyzabad

Calcutta

Calcutta

Calcutta

Calcutta

Calcutta

Gowhatty

LOSS OF MEMBERS DURING THE YEAR 1866.

By Retirement.

Ordinary Members.

R. B. Chapman, Esq. Hon'ble A. Eden. H. Duhan, Esq. Baboo Kasinauth Chowdry. R. L. Martin, Esq. C. C. Stevens, Esq. Dr. A. C. Macrae, Lieut.-Col. D. G. Robinson. J. C. Wilson, Esq. Capt, G. M. Bowie, Baboo Jadoo Nath Mookerice. J. Strachey, Esq., C. S. J. M. Scott, Esq. J. C. Sarkies, Esq. Baboo Kaliprasuuno Dutt, Raja Apurva Krishna Bahadoor. S. Jennings, Esq. W. T. Dodsworth, Esq. A. Money, Esq.

Calentta Calcutta Dehra Dhoon Calcutta Dacca Barasat Calcutta Calcutta Fyzabad Bhugalpore Rajshave Oudh Calcutta Calcutta Calcutta Calonita Calcutta Dehra Dhoon Bhugulpore

By Death.

Dr. E. Roer, J. G. Medlicott, Esq. Raja Pratab Chunder Sing, Calcutta, Right Rev. Lord Bishop of, J. Obbard, Esq.

Brunswick, Germany Midnapore Pakpara Calcutta Europe,

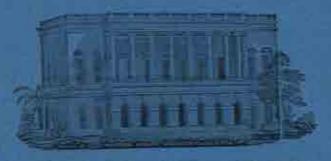
PROCEEDINGS

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ASIATIC SOCIETY OF BENGAL:

THE GENERAL SECRETARY.

No. II. - FEBRUARY, 1867.



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PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

FOR FEBRUARY, 1867.

The monthly meeting was held on Wednesday the 6th February, 1867, at 9 p. m.

Dr. J. Fayrer, President, in the chair.

The minutes of the last meeting were read and confirmed,

The following presentations were announced.

From Lieutenant-Colonel B. Ford, Superintendent, Port Blair; a box of mineral specimens.

From H. B. Webster, Esq., Officiating Collector, Bulandshuhar;
 a copper plate inscription found in a ruined Gurbee situated in Mousah
 Manpore, Pergunuah Agowtha.

Mr. Blanford, on the part of the Rev. Mr. Henderson, exhibited a specimen of printing in a new kind of Arabic type, the invention of the Rev. M. Jules Ferette.

With reference to the type, Mr Blochmann said ;-

"The Arabic print, which Mr. Blanford has kindly exhibited, is very interesting, as it is a specimen of a simple but very elegant invention. To print Arabic texts with the vowel points is a matter of some difficulty, as the discritical points are generally put up in separate rows above and below the text. Mr. Ferette of Damascus has succeeded in printing Arabic texts with the vowel points in a single line. This he accomplishes—

- 1. By omitting unnecessary points, as the jurn and the wast,
- By putting between every two consonants a small joining stroke.

By removing the vowel points a little to the left from their positions above or below the consonants, so as to come above or below the joining strokes.

"M. Ferette has now cast types containing both the joining strokes and the vowel points. The joining strokes are of course small, but would not look bad even if they were a little larger, and the removal of the points to the left is rather pleasing, as the consonants also incline to the left, in accordance with the rules of Arabic calligraphy.

"There is only one defect, which, I dare say, could be remedied; viz. in the connected form of the letters jim, he and khe, which in M. Ferette's specimen consist each of 4 strokes instead of 3.

With this exception, the general appearance of the types in question is very pleasing, whilst the decrease of the cost and the saving of labour appear to be so considerable, as to justify the belief that M. Ferette's invention will soon be generally adopted."

The Council reported that they have nominated the following gentlemen to serve in the several Committees in the ensuing year.

FINANCE.

Colonel J. E. Gastrell. A. Mackenzie, Esq.

Dr. T. Oldham.

PHILOLOGY.

Major W. N. Lees.

A. Grote, Esq.

H. Blochmann, Esq.

E. C. Bayley, Esq.

The Roy. J. Long.

C. H. Tawney, Esq.

Baboo Jadaya Krishna Sing,

Maulavi Abdul Latif Khan Bahadur,

LIBRARY.

A. Grote, Esq.

Major W. N. Lees.

Dr. T. Anderson.

Dr. T. Oldham.

Dr. D. B. Smith,

W. S. Atkinson, Esq.

Dr. F. Stoliezka.

NATURAL HISTORY.

Dr. T. Anderson.

Dr. S. B. Partridge.

Dr. D. B. Smith.

Dr. F. Stoliczka.

Dr. T. Oldham.

W. S. Atkinson, Esq.

W. Theobald Esq., Junior.

A. Grote, Esq.

Baboo Debendra Mullick.

METEOROLOGICAL AND PHYSICAL SCIENCE.

Dr. T. Oldham.

Colonel J. E. Gastrell.

Captain J. P. Basevi.

Dr. S. B. Partridge.

Lieutenant-Colonel J. T. Walker.

D. Waldie, Esq.

COIN COMMITTEE.

Major W. N. Lees.

A. Grote Esq.

Captain F. W. Stubbs,

E. C. Bayley, Esq.

COMMITTEE OF PAPERS.

All the members of the Council.

STATISTICAL COMMITTEE.

Dr. J. Ewart.

C. B. Garrett, Esq.

Lieutenant-Colonel J. T. Walker.

The Hon'ble G. Campbell.

ETHNOLOGICAL COMMITTEE.

Linguistic Section.

Bábu Rájendralála Mitra.

The Hon'ble G. Campbell.

H. Blochmann, Esq.

Major W. N. Lees.

J. Beames, Esq.

Dr. J. Anderson.

H. Beverley, Esq., Secretary.

Physical Section.

A. Grote, Esq.

Dr. S. B. Partridge.

Dr. T. Oldham,

Dr. J. Ewart.

Dr. J. Fayrer.

H. F. Blanford, Esq.

Dr. John Anderson, Secretary.

Letters from the Hon'ble G. Loch and C. W. Hatten, Esq., intimating their desire to withdraw from the Society, were recorded.

The following gentlemen proposed at the last meeting were balloted for and elected as ordinary members.

Colonel J. C. Brooke.

E. V. Westmacott, Esq.,

Lieutenant-Colonel B. Reid,

A. W. Croft, Esq.

J. A. Paul, Esq.

The following gentlemen were named for ballot as ordinary members at the next meeting.

W. G. Willson, Esq., B. A., Cathedral Mission College; proposed by Mr. H. F. Blanford, seconded by the Rev. J. Barton.

G. E. Kuox, Esq., B. C S; proposed by Mr. H. F. Blanford, seconded by the Rev. J. Barton.

The Hon'ble W. Markby; proposed by Mr. Grote, seconded by Mr. Blanford.

Bábu Peary Mohan Mookarjee, M. A.; proposed by Mr. Grote, seconded by Mr. Blanford.

Captain H. W. King, Commander P. and O. Service; proposed by Dr. J. Fayter, seconded by Mr. Blanford.

F. Hill, Esq., Professor of Civil Engineering, Presidency College; proposed by Dr. Fayrer, seconded by Mr. Blanford.

Baboo Jogindro Mullick, Zemindar of Andul; proposed by Baboo Jadava Krishna Sing, seconded by Bábu Rájendralála Mitra.

The following letter from Mr. Thomas on the derivation of Arian Alphabets was read-

"I am glad to find that my notice of the derivation of Arian Alphabets attracted attention, and I am most curious to learn the course the discussion took at the meeting of the Asiatic Society of Bengal; more especially as I am now following out the Indian section of the enquiry, and have arrived, already, at some unexpected results, tending to confirm the original Dravidian derivation of the Sanskvit Alphabet. The readers of our Journal will not fail to call to mind that Prinsep, in his early comments upon the Lat alphabet, pointed out that, in many instances, the aspirale letters were formed by a duplication of the lines of their corresponding simple letters. The question was not raised as to when these aspirates had been designed, but the inference was, that they had been formed simultaneously with the simple letters, and out of the same elements. I have a different theory to propose, which I submit for the examination and comments of your members; it is to assume that all the simple letters were Dravidian, and constituted a complete and sufficient alphabet for that class of languages, while the aspirates were later additions required for the due expression of Magadhi and other northern dialects, as the Sanskrit in after times added its own sibilants to the latter alphabet. A glance at the subjoined comparative alphabets will show the 20 consonants (out of the full 21) of the Dravidian system, as opposed to the 81 consonants of the Prakrit of Asoka's edicts. Of the additional aspirates of the latter scheme, two only can in any way claim to be ordinary duplications; the chh, and th; while a more simple origin might be sought for the latter in a common circle : dh, dh and ph may fairly be taken as intentional modifications of their corresponding normal letters, but kh, and gh, like th, and th have more in common as fellow aspirates than association with their own leading consenants; and finally Jh and bh seem to have been unfettered adaptations. The s (A) again differs from the y (L) only in the reversal of the leading lower limb. As the alphabetical data, upon which alone we have now to rely, are derived from inscriptions embodying a different language, and dating so late as B. C. 250, we can scarcely expect to recover the missing Dravidian consonants, but one at least of the vowel tests is significant in the extreme. The Dravidian vowels, as contrasted with the Sanskrit series by Caldwell, arrange themselves as follows:

Sanskrit, $u, \hat{u}, i, i, u, \hat{u}, ri, ri, lri, \dots, \hat{v}, ai, \dots, \hat{o}, a\hat{u}, \underline{u}, ah$.

Tamil, $a, \hat{a}, i, i, u, \hat{u}, \dots, \dots, \dots, \hat{v}, e, \hat{v}, ei, o, \hat{o}, \dots, \dots$.

The value of the simple e, in the Lat character, admits of no doubt, the outline of the letter takes the form of D, while the elongated vowel is constructed by a duplication of the sound, effected by the addition of a medial e, thus D = Ee, apparently the original Dravidian e, (or possibly ei,) but which, in Asoka's inscriptions, is made to do duty for at. In the more distinctly Sanskrit adaptations of the Devanagari Bactrian alphabet, the initial Δ [η] formed the basis of all the other vowels, whose varying values were discriminated by their several vowel marks.

"I am unwilling to enlarge upon an avoweilly speculative suggestion, but I think few will fail to detect the contrast between the archaic crudeness of the simple letters and the more complicated and cursive forms of the aspirates in the Lât alphabet. Had the latter class of characters uniformly followed the typical design of their corresponding simple letters, there would have been more reason to have assumed a simultaneous and congruous initiation; but the introduction of anomalous signs among the guiterals, the remarkable cursive development assigned to the aspirates, as opposed to the stiff outline of its simple prototype (an advance equal in degree, but less obviously marked in the dh, and dh,) and the inconsistent development of the hh, upon the basis of the old d, all seem to indicate a later and independent elaboration of the aspirates.

Conso-	Prakrit.					1	Dravidian.			
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	٨	#	Þ	1991	1	X	0	5	D	1
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Sanskrit additions to the Lat alphabet. In $= \pi_i \ u = \eta$.

Bábu Bájendralála Mitra said that it was with great diffidence that he ventured to make a few remarks on the letter read to the meeting. The prominent position held by Mr. Thomas as an oriental scholar; his thorough knowledge of the antiquities of this country, and the service he had already rendered to Indian history by his varied and learned researches, claimed for his opinions and theories the highest consideration. His conversancy with Oriental palmography was unrivalled, and anything said by him in regard to it, was sure to command the respect of all. Then again the arguments on which his new theory of the Dravidian origin of Sanscrit writing was based, had not yet been all given out, and, in their absence, it was impossible to discuss the subject in all its bearings without risk of serious mistakes. The few words that he had then to say, were intended, therefore, more to comply with Mr. Thomas's wish to provoke discussion, and to direct attention to such objections as suggest themselves at first sight, in order that truth may be ultimately elicited, than to rebut his theory.

The subject mooted by Mr. Thomas was of great importance, and since his first letter about it was read to the Society in July last, it had engaged the attention of many persons who take an interest in Oriental antiquities. Since the receipt of Mr. Thomas's last letter, he had himself jotted down a few notes, the substance of which he wished to bring to the notice of the meeting. These he would read as follow,—

"The general position laid down by Mr. Thomas is that 'the Arians invented no alphabet of their own for their special form of human speech, but were, in all their migrations, indebted to the nationality amid which they settled for their instruction in the science of writing.' He then instances the Persian convitorm, the Greek, the Latin, the Zend, the Pehlavi and the Derandgari, as alphabets borrowed by the Arians. It is to the last that I wish to confine myself for the present, as it is to that I have, in my humble way, directed my study for some time.

"It has been said that if the Arians did not elsewhere originate an alphabet, it is not likely that they should do so in India, and that if they always borrowed elsewhere, it is to be presumed that they did so also in this country. But such a line of argument is neither logical nor fair. The Arian race migrated from their cradle at different

times under very different circumstances, and it is not to be supposed that their intellectual condition should remain alike at all times and under all circumstances. As far as we know, the Hellenic and the Tentonic Arians left their common home at a very early period, and the Indians the latest. There would be nothing inconsistent or illogical, therefore, in the supposition that the later colonists went forth in a more advanced social condition than their predecessors, having originated a system of alphabetic writing. But supposing, and most probably such was the case, that they came to India before they had discovered the art of writing, there is nothing to prevent a highly intellectual race from doing so in their adopted country. Indeed the stability of the major of Mr. Thomas is entirely dependent upon the issue of this minor; if it can be shewn that the Hindus did succeed in devising a system of alphabetic writing without borrowing from their neighbours, the general proposition must break down, and the enquiry therefore may, without lear of error, be confined to India.

"Now, in India the Arians came in contact with the Dravidian aborigines, and Mr. Thomas therefore supposes that they must have got their alphabet from those aborigines. But there is not a shadow of historical evidence to show that those aborigines had a written literature at the time when the Arians came to this country, or for some time after it. Nobody has yet discovered a Dravidian book or inscription sufficiently old to justify such a presumption, nor is there a single tradition extant of there over having existed a Dravidian literary composition, either sacred or profane, of a pre-Vedic era. The ancient history of the Dravidians, apart from the Arians, is a blank. All that we know of them is from the writings of the Brahmans, and there we find them to have been the very reverse of a literary race. The races alluded to are the Coles, the Bheels and the Minahs of our day-the rule primitive people who inhabit our woods and wilds, and contend with the tiger of our jungles for a precarious existence. They might have been more civilized before that some of them owned houses and fortified places, large herds, and stores of gold, is ensceptible of proof: but the only source of information accessible to na of these prehistoric times are the Vedas, the oldest Arian records extant, and they describe them to have been, in the days

of the Brahminic Rishis, barbarians of the lowest type, and our poets confounded them with monkeys and satyrs -or wild men of the woods who were not to be included in the pale of humanity. Some of the epithets used in the Vedas to indicate the aborigines are remarkable. The Rig Veda describes them as Mridhravdch or "of imperfect speech." Elsewhere they are said to be Anass or "mouthless" or "speechless." Some Rishis condemned them as "priestless and hymnless, fit only to be slain." In short, if any faith is to be put in the Vedic narratives regarding the social condition of the people of India in primitive times, we must accept the bulk of the aborigines to have been in a state of society in which leaves and bark supplied the place of clothing, the shade of trees served for bondoirs, and hollows and caverns occupied the place of bedrooms. And all this at a time when the Brahmins had lofty houses, fine clothing, gold ornaments, horses and cars, iron implements, divers arts, poets, astronomers and musicians, in short, everything indicating a tolerably advanced state of civilization. Admitting that they had not come to the art of writing, was it likely that their naked neighbours should have come to it? II we trace the growth and history of the Arian colonization in India, we are led to the conclusion that the Arians continued steadily to advance, and the Dravidians to recede and decay. The Arians gradually became the masters of the finest provinces, and the Dravidians partly betook themselves to jungles and mountain fastnesses, partly got incorporated with the intrusive population, and partly submitted to them as bond slaves, living out of the bounds of their cities and owning no property. This degradation, physical and moral, was not a state of things which would help the Dravidians to take the start of the Arians, and devise the means of recording literary composition, which the latter should fail to achieve. It may be said that the Arians reviled the aborigines from a lofty sense of their own superiority, and called them asiknis or "blackies," very much in the same spirit in which the roughs among their own conquerors call them "niggers" in the present day, and that they were not the repositories of everything that is vile, as they are described to have been. But it is the very gist of the present enquiry to ascertain the relation of the two races in the scale of civilization, and it would be begging the question to say that the Dravidians originated the art of writing, and the Arians borrowed it. It would be a mere statement without any reliable evidence to support it, no more than to support the theory that the Sanskrit grammar was elaborated at Taxila and not elsewhere in the Panjab, or even in Brahmavarta.

"Mr. Thomas assumes that the Brahminio Arians first constructed an alphabet in the Arianian provinces out of an archaic type of Phonician, which they continued to use, until they discovered the superior fitness and capabilities of the local Pali. He states that he has been collecting proofs of this for some time past, and each fresh enquiry more and more confirms his early impression. It is a matter of regret that the published report of his lecture does not give any of his evidences, and I am at a loss, therefore, to know on what grounds be takes the Arian alphabet to have been elaborated in the Arianian provinces before the Brahmins came to India. That alphabet may be a Bactrian adaptation from the Phenician, but the question is, when did the Brahmans first use it? The oldest Arian record is long subsequent to Buddhism; none that I know of dates before the Pali edicts of As'oka; and there is nothing to bridge over the gap of at least some thirteen hundred years between that time and the period when the Brahmans dwelt in Bactria.

"Then as to the Pali, it is evident that it existed in the country long before the time of As'oka. The different shapes under which the same letters of the Pali alphabet appear at Junaghur and Dhauli are marked and peculiar, and they cannot be accounted for by any candid enquirer, except on the supposition that long usage had brought on local peculiarities. The allusions to alphabetic writing in Pagini and other purely Indian pre-Buddhist authors point likewise to an Indian, and not to a Bactrian alphabet. Again, the oldest Sanskrit inscription that has yet been found is recorded in the Pali (the Junagarh inscription of As'oka) and not in the Arian letters; indeed no Sanskrit inscription has yet been met with in the Arian characters. The Pali, besides, is a vernacular form of the Sanskrit-the first stage in its transition to the Prakrit-and the alphabet used to write it down may more reasonably be taken to be its legitimate vehicle, and not that of the Dravidian, of which no inscription of any kind, either old or new, has yet been discovered in the Pali character. Indeed, I can see no connexion whatever between the Dravidian languages

and the Pali character. The name Pali is derived from the Sanskrit pali a house or palli a village, meaning a domestic or village dialect, that is the vernacular, which was not necessarily, nor even probably, Dravidian. But were we to leave all philological proofs aside, and admit the northern Indian vernacular of former days to have been Dravidian, still it must be borne in mind that that name has been recently given to it by Europeans, and therefore it cannot be used as an argument in favour of, or against, the question at issue. Prinsep called the character Lât; had he named it Sanskrit it would have obviated much unnecessary discussion. The giant, in short, is of our own creation, and we can destroy it in any way we like.

" As to the Bactrian, those characters flourished coterminously with the Pali 'for writing the vernacular in the trans-Indus Provinces, and that too at a time when those provinces were under Bactrian supremacy. It is very rarely met with in the chief seats of the Brahmins, and the natural inference would be, that political influence led to the use of a foreign alphabet in writing down a Sanskritic vernacular-a Sir Charles Trevelyan of the time enforcing a pet system of Bactrianism. The Roman letters are now being used for writing many Indian dialects. Until recently, many up-country Hindus wrote, and indeed even to this day write down their Hindi in Persian characters. I have seen more than one Hindi book printed in Arabic letters. Sheikh Sadi, the Persian moralist, wrote his rekhta versesthat is Hindi-in Persian; and well may have Bactrian satraps got the Indian Vernacular of their time written in their own national characters. At any rate the use of the Bactrian to record the Pali edicts of A'soka in the Usafzai country, (and that is the oldest instance of the use of the Bactrian,) can in no way prove the antiquity of the Bactrian higher than that of the Pali, as the medium of writing down Sanskrit.

"One remarkable fact which proves the Brahminic origin of the Pali alphabet is its fullness. It contains a number of letters,—aspirates, sibilants and long vowels,—which no Tamilian language has ever had any occasion to use. Had the alphabet been designed by the Tamils, these would never have been devised. Mr. Thomas, in the letter just read, has accounted for them by supposing that the Dravidians had them not, and that the Brahmins added them to adapt the alphabet to

their use. Had such been the case, there would have been some trace in the formation of the letters to indicate their origin under different states of civilization. Such, however, is entirely wanting. The aspirated letters in the simplicity of their configuration differ in no respect from the surds and the sonants. The one set appears to have been produced by the same intellectual effort as the other, and the two are of character exactly alike. I admit that three out of the ten aspirates, viz. chh, th and ph appear to be duplications or modifications of the surds ch, f and p., but they constitute only one-fourth of the total of 12 aspirates, the rest of which are perfectly independent in design and shape. Mr. Thomas thinks the be to be an inconsistent development upon the basis of the old d, but there is no reason to show why the aspirated senant of the labial class should be formed on the model of the unaspirated sonant of the dental, instead of the same letter of its own class. I cannot therefore admit the argument to be of any value. Again the s is supposed to be an adaptation of the v. " produced by the reversal of its leading lower limb." But the question remains unanswered, why the s should be formed on the model of y to which it bears no phonetic resemblance whatsoever, instead of any other letter? The hypothesis in this case involves another difficulty; it assumes that the Sanskrit first coined only one a sound, leaving it to be inferred that the other two sibilants were introduced into the language a long time after, when we know for certain that the Sanskrit originally had three sibilants, two of which it lost in the Prakrits. As to the vowels, nothing can be more natural than that the long and the short sounds of the same kind should be indicated by slight modifications of the same figure. I cannot conceive that, to account for them, it is necessary to assume their origin at different times under the influence of different nationalities. Those who can devise a system of alphabetic writing may safely be presumed to have sufficient intelligence to make the same letter do duty for both a long and a short sound by a slight modification.

"One other argument in favour of the Tamilian origin of the Sanscrit alphabet I have now to notice: It is the use of what are called cerebral or lingual letters. It has been said that the Arians never used cerebral letters; we find them not in the Zend, the Greek, the Latin, and the Tentonic; ergo they should not be found in the Sanscrit; but since

they are, they must have been taken from the Tamilians. But the mafor premise in this argument is not tenable. The cerebral letters used in the Sanscrit are r, r, sh, t, th, d, dh, and n. Of these, r and sh are common to all the Arian languages, and that is enough to show that the general premise is founded on a mistake, and the deduction from it consequently cannot be accepted as true. It is possible some may tell me that by cerebrals Messrs. Caldwell, Norris and Thomas allude to t th d dh and n, and not to all the letters of that class. This shifting of the ground would scarcely be fair in argument, but accepting the premises on this narrow basis, I think there is not proof sufficient to support it. We know not whether the old fire-worshippers pronounced their t as F and not S, nor do we know the sound that letter had among the Greeks and Romans, for the Greek as pronounced now is not the Greek that was, and were old Homer to appear among the dons of Oxford or Cambridge, he would be almost as unintelligible to the Porsons of our day, as he would be to the people of this country. Leaving the Zend, the Greek and the Latin as uncertain, if we turn to the Teutonic and the Sclavonic, we find the cerebral consonants by no means unknown. The Low German along the shore of the Baltie has them, and they are dominant in the Scandinavian, the Russian and the Lithuanian. In the English the 3 is unknown, and, notwithstanding the dictum of grammarians that the English s was a dental, it is rarely that an Englishman can pronounce the sound of 3. With him 3 is the only letter known, and he uses it both for 3 and 3. Mr. Norris in his paper on the "Seythic Tablets" of Behistun, accounts for the presence of t (3) in the Scandinavian and the Icelandic, by supposing it to have been borrowed from the Lapp-a Tartar language; but I imagine he will not try to assign to the same cause the origin of the English t. Were he to do so, he would have to prove, in the first place, that nations can borrow sounds, and secondly, that the Anglo-Saxons really did so. It is well known that physical and social causes may lead to the loss of certain sounds in a language. The Brahminic Arian originally had a guttural q, which the enervating influence of India soon softened down to the modern . In our own day, the Persians and Moghals in Bengal lose the guttural & in the course of a single generation. Aspirates and compound consonants are being constantly softened down through the agency of that and like causes, and often without any apparent cause whatever. Indeed this tendency in languages to soften and wear out and arrange themselves in new forms, is the chief agency in the formation of new dialects, and with its aid we can easily account for the absence of particular letters in particular languages. But there is no proof, on the other hand, to show that nations can borrow sounds. Professor Bühler of Poonah, in a learned paper on the "Sanskrit Linguals," published in the Journal of the Madras Asiatic Society, justly observes:

" Regarding the borrowing of sounds, it may suffice for the present to remark that it never has been shown to occur in the languages which were influenced by others in historical times, such as English, Spanish, and the other Romance languages, Persian, &c. Let us consider the case of the English. Though half of its words have been imported by the Norman race, though most of the old Saxon inflections have perished in the struggle between the languages of the conqueror and the conquered, though in some instances even Norman affixes have entered the organism of the original language, the quietism of the Saxon organs of speech has opposed a passive and successful resistance to the introduction of foreign sounds. The English has received neither the clear French 'a,' nor its 'u,' nor its peculiar nasals, On the contrary it has well preserved its broad, impure vowels and diphthongs, and it is now as difficult for the Englishman to pronounce the French 'a,' or 'u,' as it was for his Saxon ancestors eight hundred years ago. But we find still stronger evidence against the loan-theory in the well-known fact, that nations which, like the Jews, the Parsees, the Slavonic tribes of Germany, the Irish, etc., have lost their mother-tongues, are, as nations, unable to adopt, with the words and grammatical laws, also the pronunciation of the foreign language. They adapt its sounds to their own phonetic system, and their peculiarities are recognisable even after the lapse of centuries.

"In this country the Afghans, the Persians and the Meghals have failed, in seven hundred years, to acquire the peculiarities of the Indian vernacular sounds, and the Hindus, in a like period, have equally failed to atter the Persian ξ and $\mathfrak F$. Other instances may be addiced ad libitum, but they are, I believe, not necessary. The point at issue is to show that sounds have been borrowed, and not to prove the negative. I shall

leave the subject, therefore, to those who advocate the loan-theory under notice. I may observe, however, that even if it be possible to prove its possibility, it will make but small progress in supporting the conjecture that the Eastern Arians never had any cerebral letter in their language. The Sanskrit has for its basis between 18 and 19 hundred verbal roots, which, by an ingenious series of inflections, agglutinations, affixes and suffixes, produce the entire vocabulary of the language. Now out of these 1800, 335 roots have the contested cerebral letters; 182 of which have the consonants exclusive of r, 116 end in sh, and 37 in ri, or ri. If the loan-theory were admitted, it will have to be proved that the Brahmins, though conquerors and the more civilized of the two, had to horrow one-fifth of their verbal roots from the despised aborigines, and that too at a time when the Rig Veda hymns were first sang by the ancient Rishis. This is a feat which, in the present state of philology, will not be easy of accomplishment."

Mr. Bayley said, that he could not but regret that the whole of the evidence on which the theory of Mr. Thomas was based, was not before the Society. It was of course impossible fully to judge of the merits of that theory until this was the case. Mr. Thomas's propositions were in fact two in number ;- Ist, that the Aryan race generally, and the Indian branch of it in particular, borrowed and did not invent their alphabets; and secondly, that the particular Indian alphabet, of which the earliest form was that known popularly as the "Lath" character, was borrowed from the Dravidian races which were in occupation of India or part of it, before the advent of the Brahmins, Now he thought, that at least the grounds on which the first proposition was based, were to some extent apparent. It was not, as Baboo Rajendra Lal seemed to suppose, based solely on the argument that the Aryan race having clearly borrowed alphabets in some cases, were necessarily to be considered incapable of originating one for themselves. Rajendra Lal indeed did not deny that the Aryans had borrowed alphabets from the natives whose countries they overran, and one undeniable instance of this action on their part, was their adoption of the arrow-headed character.

As Mr. Bayley understood Mr. Thomas's assumption, however, it was at least based on better ground than Baboo Rajendra Lal imagined;

When a nation already sufficiently organized and powerful to overrun its neighbours, starts on a career of conquest, and, having as yet no alphabet of its own, occupies countries where an alphabet is already established, it was a priore improbable that it should take the trouble of inventing one of its own. Of course, it did not follow, as Rajendra Lal pointed out, that because the earlier Aryan hordes possessed no alphabet of their own invention, that this was necessarily the case also with later hordes, issuing from the same stock and the same "nidns," but there was a strong antecedent improbability that a race which certainly at a comparatively late period of the world's history possessed no alphabet, and was then surrounded by neighbours who did, neighbours with whom, by conquest, some sort of intercourse must have been established,-should nevertheless invent rather than adopt an alphabet. Ceasing, however, to argue from pure probabilities, there was, Mr. Bayley thought, some external evidence for concluding that the Lath alphabet was not an Aryan invention, but adopted.

It was not the only alphabet used by the Aryan race in India: at the earliest date which could be assigned probably to any Lath inscription, there was another character which Mr. Bayley would call the Bactro-Pali, equally well established in Northern India, and employed to express what might be called identically the same language.

In Northern India, including Cabul, it might be said that this alphabet reigned supreme; south of the Jumna on the other hand was the region of the Lath character and its branches. Intermediately between say the Jumna and the Jhelum was a tract of debateable ground, in which however, at the early date above mentioned, the Bactro-Pali certainly predominated on one inscription; and many coins belonging to this tract are however certainly bi-literal, expressing absolutely the same words in both characters.

If it be supposed that a later emigration of the Aryan race, leaving its cradle after the invention of the Lath character, carried it with them to Central and Southern India, one or other of the following two several suppositions must necessarily be accepted; neither of which seemed at all probable in itself or supported by any evidence.

If, for example, it be supposed that the whole of the Indian Aryan branch quitted its original resting-place together, then it must be supposed that one portion abandoned its native alphabet and adopted one that it found existing, or that, discarding its own alphabet, it arbitrarily invented one totally different, while the rest of the horde, pressing on southwards, retained and cherished their own.

If, on the other hand, the two branches be looked upon as two separate emigrations, one before and one after the supposed invention of the Aryan Alphabet, then we are to suppose that, passing through countries settled by their own race, speaking their own tongue but using an adopted alphabet, the southern branch of the Aryans yet carried to their own remoter settlement, and preserved there, their newly invented character. Improbable as this latter supposition was, it was rendered still more so by the fact that the two alphabets gave expression to identically the same language; and it was not likely that a second emigration, coming forth from its parent root after the lapse of time necessary to perfect the invention and use of an alphabet, and after the great social change effected by the conversion of a spoken into a written alphabet, should carry with it identically the same language as the earlier emigration.

There remained another possible supposition, which had not been noticed by Rajendra Lal, vir., that one or both of the two alphabets were invented by the Aryan race after they reached India. But in the first place, it is impossible to believe that the same people setting about to invent an alphabet, should have invented two totally different, or that if one was borrowed from existing sources, they should set about to invent another while one was existent and ready to hand.

Lastly, as a matter of fact, the Bactro-Pali at least was pretty clearly borrowed: it was closely allied to,—in some forms and in its modes of numeration, almost identical with,—certain Semitic forms of writing of very great antiquity, which were once in use on the shores and in the islands of the Mediterranean.

Practically, therefore, there was located in India an Aryan race, using a language which is in fact common to all its tribes, a fact which may be accepted as showing that they entered India at dates not very remote, or under very different circumstances. Of this branch, the Northern portion, when settled on the road which the rest of the tribes must have traversed on their way towards Central and Southern India, used a borrowed character; and the most probable inference seems to be that the character used by the other is

borrowed also: that, in fact, both adopted the indigenous character which was found already existing in that portion of India in which they settled.

This inference was further strengthened by the fact that both these alphabets, at the earliest date to which we can ascribe their use with any certainty, were not wholly fitted to express all the sounds of the Aryan language which they embodied, and that, in fact, at later dates, we find both characters modified into a more convenient form. Mr. Bayley meant to allude especially to the use of reduplicate and compound letters, which are sparingly and awkwardly combined in the earlier inscriptions, while in later inscriptions (and this is peculiarly the case with the Bactro-Pall) new compounds, nay, it may be said, almost wholly new symbols are gradually introduced. Although therefore the Society had not Mr. Thomas's evidence before it, it seemed at least probable that he was correct, to the extent of assuming that there is no evidence that the Aryan race ever invented an alphabet; but that on the other hand it is certain that they borrowed the alphabets of other nations on more than one occasion, and there is strong presumption that their Indian branch borrowed the Lath character.

But from whom did they borrow it? It was very unfortunate that there was not any portion of Mr. Thomas's case before the Society on this point, nor did the Society know upon what proofs he bases his presumption that the "Lath Alphabet was of Dravislian origin."

On the other hand, the Society are obliged to Baboo Rajemira for the, no doubt, very strong grounds which he had stated for believing that the Dravidian races had no alphabet; nor could Mr. Bayley, so far as his experience went, find any evidence in contradiction of it. Remains presumably belonging to pre-Aryan races were occasionally discovered, but so far as Mr. Bayley was aware, no sort of inscription existed among these. Again, in Southern India, Mr. Walter Elliot reported that, at a comparatively late date, one branch of the Dravidian race maintained itself in independence, and possessed a considerable share of importance, power and wealth. Coins even were attributed to this tribe, but apparently nothing written or inscribed had survived them. Nor, so far as Mr. Bayley was aware, did any purely indigenous Dravidian literature exist; any thing at least of a nature inconsistent with the lifea of its being handed down by oral tradition.

So far therefore as the case stood before the Society—it seemed as if, while there was a strong presumption, at least, that the "Lath" character was borrowed by the Aryans and not invented, it seemed at least doubtful if it had a Dravidian origin, and its invention was still obscure.

Mr. Bayley would, however, venture on a guess at a source, from which there was some possibility perhaps that this character had been derived; but, in doing so, he did not venture either to put forth the suggestion with any confidence, nor was it one to the authorship of which he could lay claim. The subject had been touched upon both by the late Sir Henry Elliot and by General Cunningham, and the latter indeed had, he believed, investigated it to some extent, and might possibly give the result of his enquiries to the world.

The great Sansarit Epic spoke of a race of "Snakes" at enmity with the Aryan race, and indeed allusions to them occur repeatedly elsewhere both in the books and the traditions of the Hindus. Who these Snakes might be, was not the present question; it had been attempted to identify them as Scythian, and for present purposes Scythian was as good a name by which to indicate them, as any other.

Now it was curious that the most Archaic form of the Lath character (as had been pointed out by General Cunningham,) was found on certain coins which bore the emblems and the names known to have belonged to this Snake race. Taking this hint, Mr. Baylay would venture to throw out a few others. The Snake race was not confined to India alone: on the contrary, traces were found of it almost everywhere in the Western part of Asia and in Eastern Europe. The well-known story of Zohak had been supposed to indicate the compact of Persia, of "Iran" proper, by this Smike race or some wave of it. The subject was a wide one and open to infinite inquiry and research, But the points which were more immediately of interest related to the presence of this race on the northern shores of the Euxine and in the upper parts of Greece. Herodotus, it might be remembered, spoke of the Cimmerians as displaced from more pressure, on the upper part of the Euxine, by an irruption of Scytlis, the offspring of Herenbea and a woman half a snake. Again the Neepot, a tribe allied to the Scythian, were, a generation before Darius, similarly driven away from their original site by Snakes, partly coming from the North, partly bred among themselves; and it was curious that Kadmus, the traditionary inventor or introducer of the Greek alphabet, was also a slayer of the serpent, that is, was at least in hostile contact with the serpent race; and perhaps the singular legend of the sowing of the serpent's teeth may be explained as an example of a custom, probably of remote antiquity, but of which familiar modern instances were to be found in the institutions of the Janissaries and Mamelukes—the custom, that is, of forming military bodies of male children captured from the enemy in war.

There was on this occasion no time to follow out this subject, nor did Mr. Bayley consider himself justified in anticipating the results of General Cunningham's researches; but he believed that it was probable that these would show a strong similarity, not merely in names, but in customs and religion, as existing in these regions which the western Snakes appear to have tred, with the traces of the same nature which they have left behind in India. And as regarded the Grecian alphabet, without entering into the arguments which had been assigned in support of its Phomician origin, Mr. Bayley would only remind the Society of the strong impression which the resemblance between the Greek and the Lath alphabet made on the minds of the first decipherer of the latter, the late James Prinsep; and at any rate it was curious that in Greece, as in India, the long vowels and especially the double letters seem to have been added to facilitate the proper expression of Aryan sounds, proving that it was, at least in its first stage, not fully adopted to the requirements of an Arvan language, and was therefore evidently not originally invented to meet these, but was probably borrowed.

Mr. Campbell said that he had supposed Mr. Bayley to speak of the Snake races as distinguished from the early Aryans, in a way which might lead to the supposition that those Snake races were not Aryans. Now the term was chiefly applicable to the Rajpoots and Juts and cognate tribes, and he thought no one could see these peoples and doubt for an instant that they are Aryans of the very highest type. At the same time, these people have not generally had very literary tendencies, and it might be questionable whether they invented an original alphabet. The whole question, however, of the first invention of the alphabet used in India, seemed to him to merge in a much better one, not yet solved, viz. what were the first religious civilizations in India. If it were the fact, that the early Aryans, with their beliefs in gods descending from above, and in the firm existence of a golden age and a higher state from which man descended, were met by another faith already established in India, by a school holding the doctrine of the progression of races from below upwards, and from which both the Sivite and the Buddhist forms have spring, then it may be that the earliest Phonetic alphabet was in the possession of this latter school. That the aboriginal Dravidian savages should have invented either the religion or the alphabet, seemed to him to be out of the question. They must have come from some foreign source. The question remained, what was that source?

Mr. Bayley explained that he had used the terms "Scythian" and "Aryan" merely as concise forms of expression, and without any intention of assigning an ethnologic character to the Snakes.

Bábn Rájendralála Mitra was glad to find that Mr. Bayley concurred in the main with what he had said in regard to that part of the question to which he had confined his attention. He was well aware of more than one alphabet having been current in different parts of India, in writing down one language, in the time of Aşoka and for some centuries after it, but it did not at all serve to throw any light on the question at issue, viz the source whence the Ariansfirst got their alphabet. The researches of the learned Dr. Goldstücker had clearly established that Panini lived many centuries before the age of As'oka, and at his time the art of writing was well known. The root likh " to write " (aksharacinyas'e) in his Dhitupotha was conclusive on the subject, and the question therefore was, what was the alphabet that great grammarian and his predecessors used? was it the Bactrian, or the Pali, or any other which has been replaced by the latter? There were not data sufficient to give a positive answer to this; but he felt no hesitation in giving a negative one, as regards the Bactrian. All northern languages, or rather those of cold regious, are noted for gutturals, aspirates, troublesome combinations of consonants, and distinctions of long and short vowels, which Byron well describes as the

u ___ harsh, granting gartural,

Which we have to hiss, spit and sputter all."

These, when transferred to hot countries, soon loss their sharpness and become soft and sweet. The history of the Sanskrit language

proves this most incontestably: the sharpness and harshness and the peculiar distinctions and combination of sounds of the Vedic dialect are nowhere to be met with in the Sanskrit of the time of Buddha, and the Sanskrit of Buddha's time was not what it became in the time of Kalidasa. It underwent many changes, and most of those changes were dictated by a desire to rub off the asperities of the Vedic language for the sake of emphony.

Now, a priori, it would be expected that an alphabet designed for the earlier Sanskrit, or the language as current in the Arianian provinces, would be richer in letters than in one got up in the time of Buddha, for a great deal more stress was laid on minor distinctions of pronunciation in the pre-Vedic and the Vedic, than in later ages; and when the first idea of alphabetic writing is once formed, no nation can be believed to be so slow as not to be able to design a sufficient number of letters to meet all their requirements. The Bactrian is avowedly not so full. Its vowels are few and imperiect, and consonants deficient; and it could not therefore have been originally used for a language most remarkable for its long and short vowels, to which it attached so much importance.

Again, it was unknown in the history of language, that a nation, themselves conquerors, voluntarily gave up an alphabet with which their religion was most intimately associated for many centuries, and adopted an alphabet from a conquered people, because of "its snperior fitness." No amount of superiority can have any influence in such cases. But he knew not what the superiority was in the case of the Pali. It was not one of easy writing, for the flowing Bactrian has, in that respect, great advantages over the angular Pali; nor of fulness, for it is avowed that it had no aspirates at all, before the Brahmins adopted it. But were it otherwise, still he doubted if such adoption were possible, after a language had been associated with a particular form of writing for a long time. The English vocalic system was imperiect in many respects, and some of its letters were obliged to do duty for half a dozen sounds, and yet it was not to be for a insment supposed that it would ever be replaced by the most perfect system of writing that is current in the world, the Sandrit. Besides the Sanskrit was a dead language in the time of Asoka, and had been replaced by the Pali which dropped the aspirates and some of

the sibilants, and rejected the distinctions of long and short vowels; and that, or a little before that, was not the time when the Brahmins would forsake their ancient alphabet for a foreign one, for the sake of its superior and more perfect system of vowels and aspirates.

Mr. Campbell read a letter from Col. Phayre, Chief Commissioner of British Burmah, inclosing a list of words of the Mon or Talain language of Pegu and Tenasserim, prepared by the very best scholar of that language, the Rev. Mr. Haswell, in accordance with the list of test words sent to Col. Phayre; also promising a similar specimen of the Andamanese language. Col. Phayre added, "The study of the tribes in the hills of Burmah is one of vast interest to the Philologist, to the Ethnologist, and to the Missionary; they may be said to be unknown, at least the majority of them."

Mr. Campbell then said that although he could not pretend to have critically studied the list of Mon words which he had only just received, he could not resist the earliest opportunity of stating that at the very first glance, the first few words in the list seemed at once to establish, he might say beyond the possibility of doubt, a radical connection between the Mon or Talain people and the Sontals and similar tribes to the west of Bengal, whom he had designated as Kolarians. He had recently published a short comparative list of aboriginal words, and Mr. Man had appended to his Sontalia and the Sontals the same model list of test words which had been translated by Mr. Haswell. On comparing these lists, the first four numerals and the first four simple nouns (put first as of the most radical test character) were found to be in fact plainly identical, the only difference, where there is a difference, being of a uniform character, viz. that the shorter vowels of the Sontal words are changed into a broader o, oo, on, or an, thus—

	Soutali,	Mon.
One.	mi or mia	тиоой
Two	barea	ba
Three	pea or pia	pee or pi
Four	ponea	pann
Hand	ti or tihi	tena
Foot	jang	24988

	Sontali.	Mon.
Nose	1001	moo
Eye	me or met	mote
The next h	igher numerals are.	
Five	monayia	m'some
Six	turui	trow

Five might be doubtful; the sixth seemed to be identical. Above six, the higher numerals seem to be all different. So, going on with the list of nouns, although a resemblance might be traced here and there, it was not easily seen; and in fact most of the higher class words were different. He found a resemblance in the pronouns thus—

I	aing	oa
Thou.	amg	m'na
He	uni	nya

Indeed Mr. Logan in his valuable paper had already recognised a connection in the form of the pronouns.

At first sight it appeared as if the Mon had lost the refined grammatical forms of the Sontals, and had lapsed into a Chinese-like simplicity of grammar, but the whole subject required much study. He found that Col. Dalton also held the opinion that some of the darker tribes of the extreme East of India have probably an affinity to the aboriginal races of Central India. Altogether the study of the eastern tribes, and their connection with those of the West and again with those still further to the south-east, seemed to open up an almost boundless field of most interesting inquiry.

A letter from Professor Piazzi Smyth, Astronomer Royal of Scotland, was read—

"Herewith I have the pleasure of enclosing you a letter from Sir Walter Elliot, transmitted to me by my friend Colonel Walter Birch, 104th Fusiliers, and requesting your kind assistance in procuring for me a small block of stone, about the size of an ordinary British brick, or an octavo book," of particular quality, and transmitting the same, if procurable, to Colonel Birch's agents in Calcutta, Messrs.

[•] In a letter of later date, Professor Piazzi Smyth expresses a desire to obtain a block 6 or 7 inches square and 3 or 4 inches thick, without flaw,—Eil.

Grindlay & Co., whom the Colonel kindly promises to advise of its expected arrival and have it sent to me here.

"The reason for going so far, for so small a matter is,—that the stones of this country are too soft, or too large-grained, or too fissured, or too permeable by water: and I hope, from what I have heard of some Indian minerals, to get something supereminent in hardness, fineness of grain, toughness, freedom from fissures and crystallization, and proof against the entrance of water.

"Corundum has been mentioned; but that will not do, for though hard enough, it is crystallized, and a lump would probably be only a brittle congeries of small crystals.

"Basalt has been mentioned, and if India has basalts like some of those in Upper Egypt, viz. excessively fine-grained, tough, compact, and free from fissures and tendency to fissure, over lengths of 8 and 9 inches, —it might do well. The basalts of Scotland are far too coarse-grained and full of fissures.

"A pudding stone from Agra that I have seen, contains particles of jasper, which promise to be better still, if the original rock of it, the jasper, could be got at. Its colours are red, brown and black, the grain almost infinitely fine, the hardness far above steel; being too, I presume, a sedimentary, argillaceous rock, altered by plutonic heat, I should expect more toughness, freedom from fissures, and more uniformity than in basalt.

"If too, you can get one example, which will stand all these tests,—
I should much like to hear whether more examples perfectly similar
could be afterwards procured, and at what price. The purpose is, to
form small standard scales of 5 to 10 inches in length, and likely to last
unaltered in length and quality for a much longer time than the metals
hitherto used for that purpose. Something capable of going down to
all posterity, without sensible change, during 5,000 or 10,000 years."

In commenting on the above, the Secretary said he had brought the note before the meeting with a view of soliciting the aid of Members through the medium of the published Proceedings. He would especially note, as promising stones, the jasper of the Sone and Nerbudda valleys, and the Jade, large lumps of which are sometimes to be obtained in the bazaars.

The receipt of the following communications was announced-

- From Dr. A. Bastian of Bremen, a translation of an inscription copied in the temple of Nakhon Vat, in the city of Monasteries, near the capital of ancient Kambodia.
- From Baboo Gopee Nath Sen, Abstract of the hourly meteorological observations made at the Surveyor General's Office in October, 1866.

The following additions to the Library since the Meeting held in January, 1867, were announced.

Presentations.

. The names of Donors in Capitals.

Annales Mussei Botanici Lugduno-Batavi by F. A. G. Miquel, Vol. II, Fasc. III, IV and V.—The Batavian Society.

Cours d' Hindustani. Discours d'Ouverture du 3 Décembre, 1866, par M. G. de Tassy.—The Auruon.

Many and great Dangers with Safeguards. Twelve Sermons by G. U. Pope, D. D.—The Autmon.

Tamil Poetical Anthology, by G. U. Pope, D. D.—The Author. Tamil Prose Reading-book, by G. U. Pope, D. D.—The Author.

Tamil Grammar, by G. U. Pope, D. D .- Tue AUTHOR.

Lord's Sermon on the Mount in English, Tamil, Malayalam, Kanarese and Talugu, by G. U. Pope, D. D.—The Author.

Report on the Police of the Town of Calcutta and its Suburbs for 1865-66.—The Bengal Government.

Report on the Survey operations for Sesson 1865-66.—The Superintendent of the Revenue Survey.

Almanach der Kaiserlichen Akademie der Wissenschaften. Sechszehnter Jahrgang, 1866.—Tur Academy.

Proceedings of the Royal Geographical Society of London, Vol. X. No. VI.—The Society.

Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften; Philosophisch-Historische Classe; Band 51, Hefte 2, 3; Band 52, Hefte 1, 2, 4: Mathematisch-Naturwissenschaftliche Classe, Jahrgang 1865: 1ste Abtheilung, Nos. 8, 9-10. 2te Abtheilung, Nos. 9, 10. Jahrgang 1866, 1ste Abtheilung, Nos. 1, 2, 3, 4, 5. 2te Abtheilung, Nos. 1, 2, 3, 4, 5.—The Academy.

Denkschriften der Kaiserlichen Akademic der Wissenschaften: Mathematisch-Naturwissenschaftliche Classe. Band XXV.—Tun Academy.

Archiv für Kunde Oesterreichischer Geschichts-Quellen. Band XXXV. Heft 1, and Band XXXVI, Heft 1.

Register zu den Bänden I-XXXIII. des Archivs, and zu den Bänden I-IX. Notizenblattes:-The Academy.

Fontes Rerum Austriacarum. Band VII. Abtheilung L.—Ter.

Register zu den Bänden I-XIV. der Denkschriften der Philosophisch-Historischen Classe der K. A. der W. Band I-The Academy.

Chárúpát, Part I. of Akhaya Coomar, translated into Hindustani?— The Translators.

Exchanges,

London, Edinburgh and Dublin Philosophical Magazine and Journal of Science, Vol. XXXII, No. 218.

The Athenaum for November 1866.

Purchases.

Dictionnaire Turc-Arabe-Persan by Dr. J. T. Zenker, Heft 10.

Deutsches Wörterbuch by J. and W. Grimm, Part IV, Fasc, 11 and Part V. Fas, L

Comptes Rendus de L'Académie des Sciences, Nos. 22 and 23, 1866, Journal des Savants, November 1866.

Revue et Magasin de Zoologie, No. 11 of 1866.

Revue des Deux Mondes, 1st December, 1866.

The Annals and Magazine of Natural History, No. 108, Vol. XVIII, Reeve's Conchologia, parts 260 and 261 (Tellina and Unio).

The American Journal of Science and Arts, Vol. XLII. No. 126.



PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

FOR MARCH, 1867.

The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday the 6th of March, 1867 at 9 p. m.

Dr. J. Fayrer, President, in the chair.

The minutes of the last meeting were read and confirmed,

The following presentation was announced.

From the Editor, the "Pandit," a Monthly Journal of the Benares College, devoted to Sanscrit literature, No. 10.

The Council reported that they had elected Baboo Debendra Mullick a member of their body, in place of Dr. D. Boyes Smith, who had resigned.

The following gentlemen, proposed as ordinary members at the last meeting, were balloted for and elected.

The Hon'ble W. Markby.

Baboo Peary Mohun Mookerjee, M. A.

Captain H. W. King.

F. Hill, Esq.,

Baboo Jogindra Mullick.

W. G. Willson, Esq., B. A.

G. E. Knox, Esq., B. C. S.

Captain S. G. Montgomery, whose withdrawal was announced in July 1865, (owing to a mistake of his Agent,) was reinstated in the list of Members.

The following gentlemen were named as candidates for ballot at the next meeting.

Lieutenant-Colonel B. Ford, Superintendent of Port Blair; proposed by Mr. H. F. Blanford, seconded by Mr. Grote.

Major G. Mainwaring; proposed by Mr. Grote, seconded by Mr. Blanford.

Dr. Mohindra Lal Sirear; proposed by Baboo Rajendra Lala Mitra, seconded by Mr. Blanford.

The Hon'ble Nawab Sir Sherif-ul omrah Bahadoor, K. C. S. I. Member of the Legislative Council of Madras; proposed by Moulavi Abdool Luteef Khan Bahadoor, seconded by Dr. Fayrer.

The receipt of the following communications was announced-

- From D. Waldie, Esq., Experimental Investigations connected with the water supply to Calcutta, Part III.
- From Dr. C. Macmamara, through Dr. Fayrer, on the intimate atructure of muscular fibre.
- From W. Scott, Esq., On the reproductive Functional Relations of several species and Varieties of Verbascums.
- From Baboo Gopee Nath Sen, Abstract of the Hourly Meteorological Observations made at the Surveyor General's Office in November, 1866.

At the request of the President, Dr. Macnamara read his paper "On the intimate structure of muscular fibre," of which the following is an abstract.

of an homogeneous substance, the characteristic features of which are, that it contracts in obodience to the nervous force, direct, or reflex. The elements of the contractile tissue, under all circumstances, are arranged so as best to fulfil the mechanical purposes for which it is intended.

"In voluntary muscles there are no such elements as have been described as sarcous particles, but the contractile tissue consists of bundles of contractile fibres, each fibre being composed of two longitudinal bands running continuously from one end of the muscle to the other end, and connected throughout their length by spiral transverse bands, the whole being encased in a sheath of homogeneous tissue. A voluntary muscle therefore consists of a matrix of fibrons tissue, the interstices of which are filled up with contractile fibres such as I have just described; the larger vessels and veins ramifying in the fibrons matrix, but giving off numerous branches which are brought into immediate contact with the contractile tissue.

"It is evident that hands of clastic tissue could not perform the functions required of a muscle; the increase in breadth of the muscles

of a limb in contracting would, under these circumstances, exercise an injurious amount of pressure on the nerves and vessels of surrounding parts. All such anomalies are obviated by the arrangement I have now described; for in contracting, the longitudinal bands must shorten on themselves, drawing the transverse bands into closer approximation, and these at the same time uncoil: each fibre therefore increases in breadth exactly to the same amount which it loses in length, the changes, as in a muscle, being accurately proportioned to one another. It is quite possible that as the longitudinal bands are attached to fixed points at either extremity, the tension or relaxation of the transverse bands would be sufficient of themselves, by acting on the longitudinal bands, to cause contraction or relaxation of the muscle; and I am disposed to favour this idea, because we can thus easily conceive the means by which the remarkably rapid action which muscles are capable of effecting is accomplished; being kept in a state of perpetual tension depending on the action of the spiral bands.

"If this be the minute anatomy of muscle, it displays a source from whence animal heat may be derived. Much of Liebig's theory of the combustion of the hydro-carbons being the chief if not only source of animal heat, is falling to the ground; but in muscle or bone, there is evidence of the existence of forces as capable of engendering heat as combustion, viz. friction, compression, tension and expansion, all necessarily giving rise to molecular motion, and an equivalent amount of heat, quite capable of keeping up the temperature of the blood to a healthy standard.

"It appears also that we may equally well explain the presence of electricity in a muscle, by the play of the forces above enumerated: they must, in fact, when set in motion, induce electrical phenomena, and that independently of the nervous system."

A discussion ensued on the subject of the above paper; after which, on the proposition of the Secretary, the special thanks of the meeting were unanimously voted to Dr. Mamamara for the important communication just read to the meeting.

The following are the additions made to the Library since the meeting held in February last,

Presentations.

*. * The names of Donors in Capitals,

Rahasya Sandarbha, Vol. III, Nos. 35 and 37.—The Calcutta School Book Society.

The Report of the British Association, Bath, 1864.—The Associa-

Sonthalia and the Sonthals .- THE GOVERNMENT OF BENGAL.

Selections from the Records of the Government of India, Foreign Department, No. 51, (Political Administration of Central India for 1865-66.)—The Government of India.

Another Copy .- THE GOVERNMENT OF BENGAL.

A list of Waste Land Sales made in Cachar under the new Waste Land Rules, with a map.—The Government of Bengal.

Report of the Committee of the Bengal Chamber of Commerce from May to October, 1866.—The Chamber of Commerce.

Proceedings of the Royal Society of London, Vol. XV, No. 87.—THE Society.

Zeitschrift der Dentschen Morgenländischen Gesellschaft, Zwanzigster Band, Heft IV.—THE EDITOR.

Descriptive Catalogue of Vernacular Books and pamphlets forwarded by the Government of India to the Paris Exhibition of 1867, by the Rev. J. Long.—The Authon.

Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften zu Wien,

Philos-histor, Classe;

Band 49, Hefte I, II, III, Band 50, Hefte I, II, III, IV, Band 51, Heft I, and Register zu den Banden 41 bis 50.

Iste Abth.

Band 51, Hefte III, IV, V, Band 52, Hefte I, II, Band 51, Hefte III, IV, V, Band 52, Hefte I, II, Band 51, Hefte III, IV, V,

(Band 52, Hefre I, II, III, and Register zu den Bänden 43 bis 50.—Die Akademie Der Wissenschaften zu Wies.

Denkschriften der Kaiseri. Akademie der Wissenschaften; Philos. histor. Classe, Band XIV., Math. Nature, Classe, Band XXIV.—THE ACADEMY.

Archiv fur Oesterreichische Geschichte-

Band XXXIII. Hefte 1, 2

XXXIV. Hefte 1, 2

XXXV. Heft 1 .- THE ACADEMY.

Fontes Rerum Austriacarum, II Abth. Band XXIV.—The Acade-MY.

Atlas der Hautkrankheiten, Lief. V.—The Academy of Sciences of Vienna.

Almanach der Kaiserlichen Akademie der Wissenschaften für 1865.— The Academy.

Verhandlungen der K. K. Zoologisch-botanischen Gesellschaft in Wien, Band XV.—Tun Entron.

Philosophical Transactions of the Royal Society of London, Vol. 155, pt II, Vol. 156, part I.—The Royal Society.

Researches on Solar Physics by W. de la Rue, B. Stewart and B. Loewy, First Series.—The Authors.

Results of Meteorological and Magnetical Observations made at the Stonyhurst College Observatory.—The College.

Report on the Result of the Administration of the Salt Department, during the year 1865-66.—The Government of Bengan.

Der Meteorsteinfall am 9 June, 1866, bei Knyahinya (Zweiter Bericht), von W. Ritter v. Haidinger.—The Auvhor.

Results of twenty-five years' Meteorological observations for Hobart Town, by F. Abbott F. R. A. S.—The Royal Society of Tasmania.

Abhandlungen für die Kunde des Morgenlandes. Band IV. No. 5.—The Society.

Proceedings of the Royal Society of London, Vol. XV. No. 88.— The Royal Society.

Transactions of the Royal Society of Edinburgh, Vol. XXIV.
Part II.—The Royal Society of Edinburgh.

Journal of the Statistical Society of London, Vol. XXIX. Part IV.—The Statistical Society.

Proceedings of the Royal Society of Edinburgh, Vol. V. No. 68.— The Royal Society of Edinburgh.

Report on the Operations of the Thugges and Dacoity Department in Native States, by Lieutenant-Colonal C. Hervey, C. B.—The Ferricas Department to the Government of India.

A Narrative of the Russian Military Expedition to Khiva under

General Perofski in 1839,—The Foreign Department to the Government of India.

The Pandit, a monthly Journal of the Benares College devoted to Sanskrit Literature, No. 10, Vol. I.—Tun Epiron.

Purchased.

Rås Målå or Hindoo Annals of the Province of Goozerat, by A. K. Forbes, 2 Vols.

Ure's Dictionary of Arts, Manufactures and Mines; by R. Hunt, F. R. S., F. G. S., 3 Vols.

Catalogue of Colubrine Snakes in the Collection of the British Museum, by Dr. A. Günther.

History of the British Empire in India from 1844 to 1862, by L. J. Trotter, 2 Vols.

History of Herodotus translated into English, with copious notes, by G. Rawlinson, M. A., & Vols.

Comparative Anatomy and Physiology of Vertebrates, by R. Owen, F. R. S., 2 Vols.

A Dictionary of Science, Literature and Art; by W. S. Brande, D. C. L., F. R. S. L. and the Rev. G. W. Cox, M. A., 2 Vols.

The Chinese Classics by J. Legge, D. D., Vols. I. and H. and 2 Parts of Vol. III.

Ballhorn's Grammatography.

Travels in Central Asia, by A. Vambory.

A History of Persia from the beginning of the nineteenth century to the year 1858; by R. G. Watson.

The Record of Zoological Literature; by A. C. L. G. Günther, M. A., M. D., Ph. F. D. R. S., Vol. L.

Icones Zootomics mit Originalbeiträgen; by J. V. Carus, Erste Hälfte oder Tafel I.—XXIII.

The Oriental Races and Tribes, Residents and Visitors of Bombay, 2 Vols.; by W. Johnson.

The Quarterly Journal of Science, Nos. I. to XI.

Introduction to the study of the Foraminifera; by W. B. Carpenter, M. D., F. R. S.

La Maha-Bharata by H. Fanche, Vol. VI.

Comptes Rendus de l'Académie des Sciences. Tome LXVII. Nos. 24 and 25. Revue des Deux Mondes, 15th December, 1866.

The Calcutta Review, No. LXXXVIII. February, 1867.

Histoire Naturelle des Anuelides marins et d'ean donce, by M. A.

De Quatrefages, Tomes I, II, Parts 1 and 2, with plates.

Catalogue of the Acanthopterygian Fishes in the collection of the British Museum; by Dr. A. Günther, 2 Vols.

The Architecture of Dharwar and Mysore, by Col. M. Taylor.

The Architecture of Beejapoor, by Col. M. Taylor.

The Kamil of El-Mubarrad: by W. Wright, Part III.

Jacdut's Geographisches Wörterbuch: Erste and Zweite Hälfte, Bog 61-118,

Revue des Deux Mondes, 1st January, 1867.

The Numismatic Chronicle and Journal of the Numismatic Society, 1866, Part IV.

The Quarterly Journal of Science, No. XIII

The Journal of Sacred Literature and Biblical record, No. XX. N. S. Comptes Rendus des Séances de l'Académie des Sciences, Nos. 26 and 27, 1866.

Tables des Comptes Rendus, Premier Semestre, 1866.

Journal des Savants, December, 1866.

The Westminster Review, No. LXI, January, 1867.

The Annals and Magazine of Natural History No. CIX. January 1867.

Exchange.

The Athenaum, December, 1866.



PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

FOR APRIL, 1867.



A meeting of the Asiatic Society of Bengal was held on Wednesday the 3rd April, at 9 r. m.

Dr. J. Fayrer, President, in the chair.

The minutes of the last meeting were read and confirmed.

Presentations were announced :-

- From A. Grote, Esq. a specimen of Tragulus Javanicus.
- From Dr. J. E. T. Aitchison, a specimen of Larus Ichthyactus,
 a Sea Gull, shot at Umritsur in the Punjab in May last.
- From Lieutenant J. Waterhouse, a box of specimens of plumbago from the Sonah mines near Delhi.
- 4. From Baboo Gour Doss Bysack, a few bricks and a carved Koran stand from the Sat-Gombouj of Bagharhant,
- 5. From the Rev. C. H. Dall, 3 photographs of the hairy family at Ava.
- From Captain J. Anderson, a fragment of stone from the old tomb of Mrs, Mary Hastings at Berhampore with a copy of the epitaph.
- Mr. Blanford exhibited, on part of Mr. Grote, a few specimens of a curious sponge ("Ragaderos") from the Philippine islands.
- The Council reported that they have elected H. Blochmann, Esq. a member of the Library Committee.
- The following gentlemen, proposed at the last meeting, were balloted for and elected as ordinary members: — Major G. Mainwaring; Lieutenant-Colonel B. Ford; the Hon'ble Nawab Sir Sheril al Omrah Bahadur, K. C. S. I.; Dr. Mohindra Lala Sirkar.

10. The following gentlemen are candidates for ballot as ordinary members at the next meeting:—

Assam, proposed by Captain H. H. G. Austen, and seconded by Mr. H. F. Blanford,

The Hon'ble F. Glover, proposed by Mr. E. C. Bayley, and seconded by Mr. H. F. Blanford,

Dr. B. N. Hyatt, Civil Surgeon, Ranchee, proposed by Lieutenant-Colonel E. T. Dalton, and seconded by Dr. J. Anderson.

Dr. E. Bonavia, Assistant Surgeon, Lucknow, proposed by Dr. J. Anderson, and seconded by Mr. H. F. Blanford.

Dr. S. C. Mackenzie, proposed by Dr. Ewart, seconded by Dr. Colles. J. A. B. Nelson, Esq. proposed by Mr. A. Grote, and seconded by Mr. H. F. Blanford.

Letters were read from E. W. Clementson, Esq. and Captain
 W. G. Murray, intimating their desire to withdraw from the Society.

12. The receipt of the following communications was announced:-

L. Prom Babu Gopee Nath Sen, Abstract of Hourly Meteorological observations made at the Surveyor General's Office in December last.

 From Captain H. H. Godwin Austen, F. R. G. S. Notes on the geological features of the country over the foot of the hills in the Western Bhotan Dooars.

From Dr. E. Bonavia, Affinity between the adjutant and the domestic turkey.

4. From Babu Gour Doss Bysack, "Antiquities of Bagharhaut."

13. At the request of the President, Mr. D. Waldie read the following abstract of his experimental investigations connected with the water supply to Calentta, Part III.

"The object of this communication is to correct a few errors and deficiencies in the former papers, and supply additional information, so as to render the inquiry more complete. It will also direct attention to some points of importance calling for special consideration.

"The general constitution of the Hooghly water, as regards its mineral constituents, is exhibited by two tables, one giving the proportions of these in a way favourable for comparing its variations at different seasons, and another showing its hardness. Though the water is rather hard during the dry season, the hardness is reduced to a very

small amount by boiling. It is superior in this respect to what can usually be obtained for the supply of towns. The influence of the tides during the hot season was considered in the first communication: the tidal water increases the amount of common salt, but does not very greatly increase the hardness.

"As regards organic matter, numerous observations have been made since the last communication was laid before the Society, partly to meet objections raised against the former results, which objections however may now be considered as withdrawn.

"Further examination of the various waters by oxidation by permanganate of potash has not increased the author's opinion of its value, and two tables are given which it is believed will justify this unfavourable opinion. The first exhibited the very rapid change which takes place in the deoxidating power of many waters both river and tank, this power diminishing within two days to one half, one third, or even less, of its original amount. This is not noticed in the Lomica Reports, probably because the samples having been taken from the street mains, the water is at least two or three days old, after which it changes much more slowly. The oxidation test appears to indicate only certain kinds of impurities,-probably products of fermentation or putrefaction, or even of living vegetable organisms, and it is doubtful if it gives much important information of the quality of these, as the second table shows that General's Tank water (considered the best for drinking in Calcutta) equals in deoxidating power the the water of the salt mursh to the east of the town; and that the water of the Circular canal, which receives the greater part of the sewerage of Calcutta, requires no more oxygen than that of the best tanks.

"The determination of organic matter by weight is the most trustworthy. Care has been taken in all the recent analyses to proceed to
the evaporation without delay, but continued observation has also
shown that the results formerly given cannot have been far wrong.
The quantity of organic matter in the river water for the months of
January and November has in no case exceeded 15 grains per 100,000
grains, or 1.05 grains per gallon. A table is given of the results at
all seasons, which distinctly shows the influence of the tides, the quantity of organic matter during flood tide being from one and half to
two and half times greater than during ebb tide. Yet the highest

obtained was 2.7 grains per 100,000 grains, or rather less than 2 grains per gallon.

"Another table exhibits the amount of organic matter in the water of the Salt Water Lake and Circular canal. On the 18th February the water of the marsh contained only 6.5 grains per 100,000 grains or 4.55 grains per gallon. A calculation made on data supplied by Mr. Leonard (reduced to one half on account of uncertainty) or 5000 ft. per second of water flowing in the river at the minimum, shew that though Mr. Clark's supply of 6,000,000 gallons of water per day flowed into the river in as concentrated a state of impurity as the filthiest ditches of Calcutta during the hot season, it would add of organic matter to the river water only to the extent of 5 or 6 hundredths of a grain per gallon. The allowance is extravagant, yet the addition is but small,

"Trials for Ammonia, exhibited in tables, shew that the water during the cold season is at its purest, and other observations on the organic matter are confirmatory of those previously made.

"Further observations on the tank waters confirm the conclusions formarly drawn. Additional samples have been examined in the northern part of the town, with reference to a tank proposed to be excavated there by the Municipality. All the tank waters examined, except those of the Maidau tanks and Dalhousie Square Tank, contained much more saline matter and were much harder both before and after boiling than the river water at its worst (except as regards salt during flood tide in May and June,) and contained much more organic matter,—two, three, or four times as much. The water of the street aquednet (from the river) was greatly superior in every respect. Water obtained from temporary wells dug for the purpose was carefully analysed and found to be simply sewage water, deprived of the greater part of its bad smell by passing through the earth; indicating that the soil is more or less penetrated by sewage water all over the town.

"Further consideration had been given to the nature of the organic matter, confirmatory of former observations. The organic matter in the river water during the rainy season was analogous to that of tank water, and contained a larger proportion of vegetable matter than that of the dry season. But it by no means followed that it was less objectionable. When partially separated from saline matter, its general properties more resembled those of animal excrementitious matter, while those of the dry season water more resembled urinous secretions. The rainy season water also seemed to contain much more living germs.

"As to the question of taking water from Cossipore, it may be said that it would scarcely be advisable to do so, as there can be no doubt of the influence of the tide rendering the water impure : whether a point nearer than Pultah would be suitable, could only be determined by observations during the hot season. But there is a point of greater importance to consider, namely the state of the river water during the rains, especially during the early part of the season. The water then contained the sewerage of thousands of square miles of country, and was much more putrid and offensive than even the flood tide water of the hot season; and besides contained a large quantity of mud in a very fine state of division, very difficult to get rid of either by subsidence or filtration; and this water cannot be avoided by taking it from Pultah. The greater impurity of river waters during floods is a fact well recognized in England, and here we have all the floods of the year concentrated into one great flood. The Engineer to the Municipality had taken into account the unusual quantity of mud in the water at this season, and had made arrangements intended to obviate the difficulty: but there is great reason to fear that these measures will be very inadequate for the purpose, and that the large covered reservoirs will, during the early months of the rains, supply water of a very offensive character, and perhaps taint it for a considerable time afterwards. There is no evidence in the Engineer's Report that the extent of the difficulty has been appreciated or even properly understood, or that the efficiency of the means to remedy it has been satisfactorily ascertained,"

Lannary.

The following additions were made to the Library since the meeting held in March:—

* The names of Donors in Copitals.

Presentations.

Jahrbuch der Kaiserlich Königlichen Geologischen Reichsanstalt.
—Vol. XV, XVI.—The K. K. Gros, Reichsanstalt.

The History of India in Unite, No. 9.—The Scientific Society Of Allyguan.

Professional papers on Indian Engineering, No. 14, Vol. IV.—THE EDITOR.

Annual Report of the Trustees of the Museum of Comparative Zoology at Harvard College 1865.—The Trusters of the Museum.

Report of the Superintendent of the Coast Survey of the U. S., 1859 and 1860.—The United States of America.

Proceedings of the Boston Society of Natural History for 1864.— The Boston Natural History Sourety,

Conditions and Doings of the Boston N. H. Society for 1864.— THE BOSTON NATURAL HISTORY SOCIETY.

Documents of the United States Sanitary Commission, 3 Vols.—The U. S. Sanitary Commission.

Annual Report of the Board of Regents of the Smithsonian Institution for 1864.—The Exerctories.

Memoirs of the Geological Survey of India, Vol. V. pt. 3.—The Govr. of Bengal.

Catalogue of the Organic Remains belonging to the Cephalopoda in the Museum, Geological Survey of India, Calcutta.—The Gove. of Benoal.

Catalogue of the Meteorites in the Museum, Geological Survey of India, Calcutta.—The Gove, or Bengal.

A Narrative of the Russian Military Expedition to Khiva under General Peroiski in 1839.—The Gove. or Benoal.

Notes on the Geographical, Statistical and General condition of Purguana Palamow, by Major G. H. Thompson.—The Govt, or Bengal,

Report on the Registration of Ozone in the Bombay Presidency for 1864-65.—The Govt, or Bengal.

Ueber ein Fragment der Bhagavati, 1st part, by Prof. A. Weber.— Ten Author.

Selections from the Records of the Bombay Government, No. CL. New Series (Extract of the Proceedings of the International Sanitary Conference of 1866.)—Time Gover, or Bombay.

Annual Report of the Administration of the Madras Presidency for 1865-66. The Gove. of Bengal.

General Report on the Administration of the Bombay Presidency for 1865-66.—The Govr. or Bengal. Report on the Administration of the N. W. Provinces for 1865-66, —The Govy, or Bengal.

Annual Report on the Operations of the Post Office of India for 1865-66.—The Govt. of Bengal.

Report on the Administration of the Central Provinces for 1865-66.

—The Gove, or Bengal.

Annual Report of the Administration of Coorg for 1865-66;—The Gove, or Bennal.

General Report on the Administration of the Punjab Territories for 1865-66.—The Govr. of Bengat.

Annual Report on the Administration of Mysore for 1865-66,—THE GOVT. OF BENGAL.

Report on the Administration of the Penal Settlement of Port Blair and Andaman Islands for 1865-66.—The Gove, or Benoal.

Annual Report on the Administration of the Straits Settlement for 1865-66.—The Gover, of Bengal,

Six Copies of Papers relating to the Aboriginal tribes of the Central Provinces left in MSS, by the late Rev. S. Hislop, edited by R. Temple, C. S. L.—The Editor.

Six Copies of the Gazetteer of the Central Provinces, part I.—Tun Chief Commissioner of the Central Provinces.

Proceedings of the Royal Institution of Great Britain, Vol. IV, parts VII and VIII.—The Royal Institution.

The journal of the Royal Asiatic Society of Great Britain and Ireland, New Series, Vol. II, pt. II.—THE ROYAL ASIATIC SOCIETY.

Sitzungsberichte der Königl. Bayer. Akademie der Wissenschaften zu München, 1865, II, Hefte III and IV; 1866, I, Hefte I, II, III, IV, and II Helt I.—The Academy of Sciences, Musica.

Abhandlungen der Philos. Philologischen Classe der Königlich Bayerischen Akademie der Wissenschaften, Vol. X. Abth. 3, Vol. XI, Abth. 1. Historische Classe, Vol. X. Abth. 2.—The Academy of Sciences, Munica.

Proceedings of the Royal Society of London, Vol. XV, No. 89.— The Royal Society.

Journal Asiatique, 6th Series, Vol. VIII, Nos. 29, 30, 31,—The Asiatic Society of Paris.

General Report of the Administration of the Bombay Presidency for 1864-65 — The Govt. or Bengan.

Annual Report of the Geological Survey of India for 1865-66,— The Gove, of Bengal.

Annual Report of the Administration of the Province of Oudh for 1865-66.—The Govr. of Bengal.

Discours d'onverture du 4 Décembre 1865, by M. G. de Tassy.— Ten Authon.

The policy of the Future in India. A letter to the Right Hon'ble Lord Cranborne, by W. Knighton, LL. D.—Tue Entron.

Entwicklung der Ideen in der Naturwissenschaft. Rede in der öffentlichen Sitzung der. k. Akademie der Wissenschaften am 25 Juli 1866. By Justus, F. von Liebig.—The Author.

Die Bedeutung moderner Gradmessungen. Vortrag in der öffentlichen Sitzung der, k. Akademie der Wissenschaften am 25 Juli, 1866, By Dr. C. M. Banernfeind,—The Author.

Die Gottesurtheile der Indier. Rede gehalten in der öffentlichen Sitzung der königt. Akademie der Wissenschaften, am 28 März, 1866. By Emil Schlagintweit.—Ten Author.

Report of the Administration of the Province of British Birma for 1865-66.—The Govy, of Bengal.

Report of the Administration of the Hyderabad assigned Districts for 1865-66.—The Govt. of Benoal.

Report of the Proceedings of the Government of India in the P. W. Department for IS64-65.—Tim Govr. of Bengat.

Narrative of the course of Legislation during the year 1865-66,— The Gove, of Bengal.

Exchange.

The Athenaum, January 1867.

Purchase.

The Edinburgh Review, January 1867.

Revue des Deux Mondes, 15th January, 1867, and 1st February, 1867.

Revue et Magasin de Zoologie 1866, No. 12.

Comptes Rendus de l'Académie des Sciences, Vol. LXIV. Nos. 1, 2, 3, 4 and 5. Hewitson's Exotic Butterfiles, part 61.

Grimm's Deutsches Wörterbuch, Band V, Liefe. V.

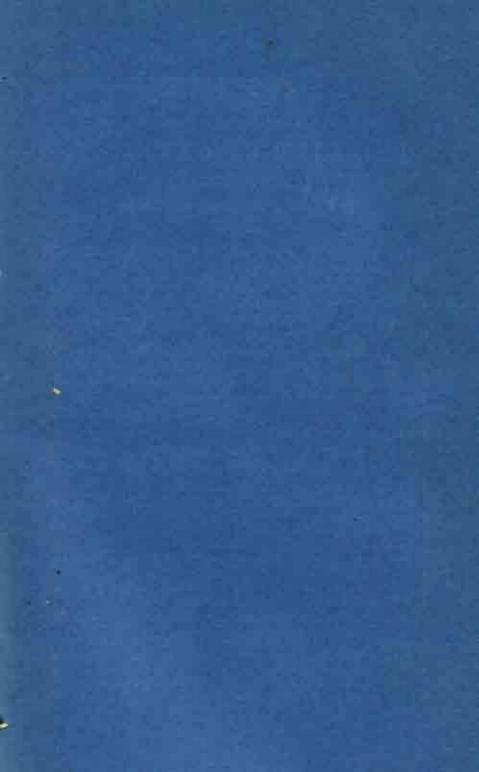
The Annals and Magazine of Natural History, No. 110, Feby. 1867. Journal des Savants, January 1867.

The Quarterly Journal of the Geological Society, No. 89.

Notices et Extraits des Mannscripts de la Bibliothèque Impériale et autres Bibliothèques, Vol. XX, Nos. 1 and 2 and XXI, No. 2.

Abhandlungen für die Kunde des Morgenlandes, herausgegeben von der Deutschen Morgenländischen Gesellschaft, Band IV. No. 5.







PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

FOR MAY, 1867.

The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 1st instant, at 9 p. M.

Dr. J. Fayrer, President, in the chair.

The minutes of the last meeting were read and confirmed,

Presentations were announced-

1. From the Chief Commissioner of the Central Provinces :-

Six copies of a set of papers on the Central Provinces, left in manuscript by the late Rev. S. Hislop.

 From Mr. Temple, six copies of the Central Provinces Gazetteer, P. I.

The following gentlemen, proposed and seconded at thel ast meeting, were balloted for and elected as ordinary members:—

Lient, E. J. Steel.

The Hon'ble F. Glover.

Dr. B. N. Hyatt.

Dr. E. Bonavia,

Dr. S. C. Mackenzie, and

J. A. B. Nelson, Esq.

The following gentlemen are candidates for ballot as ordinary members at the next meeting :-

Lieutenant J. Gregory, Deputy Commissioner, Naga Hills, proposed by Lieutenant J. Williamson, seconded by Dr. J. Anderson,

The Right Rev. Dr. Milman, Lord Bishop of Calcutta, proposed by the Ven'ble Archdeacon J. H. Pratt, seconded by the Hon'ble C. B. Trevor. William Duthoits, Esq. C. S., proposed by the Hon'ble G. Campbell, seconded by R. Spankie, Esq.

John Middleton Scott, Esq., A.B., C.E., &c., Assistant Professor of Engineering, Presidency College, proposed by V. Ball, Esq., seconded by M. H. Ormsby, Esq., for re-election.

Bábu Obhoy Churn Mullick, Roy Bahadur, Deputy Collector, proposed by Bábu Gour Doss Bysack, seconded by the President.

The following gentlemen have intimated their desire to withdraw their names from the Society :--

W. H. Stevens, Esq. H. Leeds, Esq., and J. H. Mathews, Esq.

3. Read the following letter from Coowar Mohendra Narain Deb.

" Sobhabazar, Rojbaree, 23rd April, 1867.

" To the Secretary to the Asiatic Society.

"Dean Sir,—With feelings of the deepest sorrow, I beg to announce to you the melancholy intelligence of the death of my father Rájá. Sir Rádhákánta Báhádur, K. C. S. I. A telegram from Brindábana vid Muthra, dated the 20th instant, has brought the heart-rending news that the Rájá breathed his last at noon on the 19th instant. The information I have as yet received regarding his last illness is imperiect."

In moving the following resolution on part of the Council, the President said—

"Gentlemen,—Since our last meeting we have received the melancholy intelligence of the death of one of our most distinguished members. On the 19th of last month, Rájá Sir Rádhákánta Deva Báhádur, a Knight of the Star of India, an oriental scholar of the highest attainments, and a leader of all that was enlightened and distinguished in native society in Bengal, died at the advanced ago of 85 years, at the ancient city of Brindábana where (as I am informed) he had retired, to pass some portion of the close of his long and useful life in repose and meditation. The loss of this distinguished man, who was so highly revered throughout Bengal, is lamented not only by his relatives and countrymen generally, but by this Society and by many European friends, who had learned not only to admire the erudition of the great oriental scholar, but to respect the perfect character of the Bengali gentleman.

"I feel quite incompetent to do justice to the many virtues of one who was so universally respected, never having had the advantage of his personal acquaintance; but it is not the less incumbent on me, representing for the occasion the Asiatic Society of Bengal, to bear its testimony to the exalted merits of the great and good man whose loss, as an honorary member, we have now to deplore. I therefore beg to propose the following resolution on the part of the Council of the Asiatic Society:—

"That this meeting desires to record an expression of its deep and sincere regret at the death of the Raja, Sir Radhakanta Deva Bahadur, K. C. S. I., an accomplished and distinguished scholar, whose eminent services to the cause of oriental literature during half a century, were, in March 1855, especially acknowledged by his election as an honorary member of the Society."

Babu Rajendralala Mitra, in seconding the resolution, said, "It is a source of great satisfaction to me to find that the Council has recommended to the favourable notice of the Society the resolution which you have moved, to commemorate the services of a countryman of mine, and one whom I had the privilege to call a friend for the last five and twenty years. It is in every way worthy of this, the oldest Asiatic Society, which was the first to lay open the store-house of the Oriental classics to the scholars of Europe, and it is worthy of the great man to whose memory it is devoted. Raja Radhakanta is no more; he is gone to an unknown region of spirits, where human praise can be of no avail to him; but we do well to express our respect for scholars who, like him, have laboured long and successfully in the field of Indian literature. It is a premium on merit which is sure to promote the object of this Society.

"The literary life of Raja Radhakanta extends over a period of sixty years. He was born in the year 1784, and early evinced a strong love of reading and of knowledge, and care was taken by his worthy father to provide for him an education befitting his high rank and social position. According to the custom of the time, his first attention was drawn to the Persian and Arabic languages; but he subsequently studied most thoroughly the Sanskrit, the English and the

vernaculars,-Hindi, Urdu, and Bengali. His ancestors were noted for their devotion to the British nation under which they had lived and thrived; and, following their footsteps, he attached himself to some of the leading Englishmen of his time, whose example exercised the most salutary influence on his whole life. Among them were Colebrooke, Wilson and David Hare, who had formed a Society for the extension of school education in this country, and he was appointed its Honorary Secretary. In this capacity he felt the want of good school books, and at once set himself to supply the desideratum. The Primers and Readers which he then compiled were the first of the kind in our language, and they have been the model upon which all others have subsequently been formed. The want of education for our females also attracted his notice at this time; and in the language of the late Hon'ble Mr. Bethune, to him belongs the credit of being the first native of India, who, in modern times, has pointed out the folly and wickedness of allowing women to grow up in utter ignorance.' A number of schools, both for boys and girls, were established under his care, and the little pupils used annually to assemble in his palatial residence at Shobhábázár to pass examinations and receive prizes. Indeed, what he did in those days in Bengal for female education, has never been attempted since. He was also instrumental, in conjunction with the late Sir Edward Hyde East, in the establishment of the Hindu College, which has done so much for the social, moral and intellectual advancement of the people of this country. He was appointed one of the governors of the Institution, and in that capacity took a deep interest in its wellfare for near forty years. Although not born a Kulin, and therefore not of the aristocracy of the country according to Indian notions, his alliance by marriage, and the office which his grandfather held in the time of Lord Clive, as the head of the Jatimala Kachari or the Court for the settlement of disputes regarding caste, gave him great influence among his countrymen, and for thirty years he held the leadership of the Hindus of Bengal. Gentle, frank and affable by nature, and possessed of excellent address, he won the good will and admiration of all who came in contact with him, and never created an enemy. Sir Lawrence Peel, Chief Justice of the late Supreme Court, used to say of him that ' he was a pattern of gentlemanliness which we would all do well to imitate."

"He was a Hindu, and lived and died in firm faith in his Maker as taught in the religion of his forefathers. This may have made him appear as an obstructive in the way of those of his countrymen who yearned for speedy reformation in matters relating to religion and caste; but he never opposed any measure with the bigotry of a partizan, and if sincerity he a virtue, he had it to perfection.

"It is, however, not by reference to his social and moral qualities that I wish to support his claim to our respect. It is as the author of the great Sanskrit Encyclopædia, the Sabdakalpadruma, that he distinguished himself most, and claims our regard. In bulk that work extends to eight folio volumes of about a thousand pages each, and it took up the best portion of the Raja's life for its completion. When Ferdusi completed his Shahnamah, he said : Basi sail burdam basar nam ranj, ' for thirty years have I borne labours innumerable to complete my work.' But Ferdusi was born in poverty, and depended on his song for his bread; Raja Radhakanta was the son of one of the richest men in the town, and was surrounded by wealth and luxury on every side. He had, therefore, to overcome the influence which great wealth, high position, and want of official occupation exercise on young men just entering life in this country. But he possessed a strength of mind not unequal to the task he had set before him, and he devoted near forty years of his life in compiling his great work. In Europe where all works of reference are easily procured and in print, and every assistance is at hand, such a lexicon as the Sabdakalpadruma would have secured the highest honours to its author. In India fifty years ago no such advantages were available; the Raja had to collect his materials from the most inaccessible sources; he had to pore over musty manuscripts and illegible scribblings on palm leaves, which alone contained his text, and he had to become his own type-founder, printer, and press-reader, before he could send forth a single page of his work to the public. The labour he had to undergo in these occupations was immense, and that it bore good fruit is evident from the manner in which it was received. by scholars in Europe, and the honours which were showered on him by princes and learned bodies to mark their high sense of its value. The Czar of Russia and the King of Denmark sent him medals, and the Imperial Academy of St. Petersburgh, the Royal Academy of

Berlin, the Kaiserliche Academie of Vienna, the Royal Asiatic Society of Great Britain and Ireland, the Société Asiatique of Paris, the Oriental Societies of Germany and North America, and the Royal Society of Northern Antiquaries sent him their diplomas, and elected him their honorary or corresponding member; and last, though not least, our own Gracious Sovereign bestowed on him the Star of India in recognition of his exalted merits. The Raja is now dead, but, to quote an American orator, "Death has not surprised us by an unseasonable blow. It has east its shroud only over mature years, over long protracted literary service, and over life when the ends of living had been accomplished." But the great work of the Raja remains, and as long as a taste for Sanskrit literature shall endure, so long we may confidently say, monumenta manebunt."

5. The Council reported that they have adopted the following report of the Philological Committee recommending to introduce the Jonesian System of transliteration in spelling oriental names in the Society's Journal and Proceedings:—

"The Philological Committee of the Asiatic Society, having taken into consideration a proposition of Bábn Rájendralála Mitra, referred to them by the Council, for the adoption of a uniform system for the romanising of oriental words in the Journal, beg to report that it is highly desirable that the system recommended—that of Sir William Jones as modified by Professor H. H. Wilson—should be adopted,

"They are of opinion, however, that before enforcing it as regards contributions to the Journal, it would be well to print a Key to the system, and to circulate it for the information and use of contributors.

"As regards the linguistic vocabularies, the Committee recommend that those that have been already received, should be returned to their anthors with a copy of the Key to have them revised and put into one uniform system of spelling; and all future contributions of the kind should be treated in the same way.

"Copies of the Key should also be sent to Government, with a request that they may circulate them among those who have been called upon to co-operate in carrying out the proposed ethnological congess. "Further, with a view to get the system generally adopted, the Council should place itself in communication with the Punjab and the Nagpur branches of the Society, as also with the Bombay and the Madras Branches of the Royal Asiatle Society of Great Britain and Ireland, and ask their opinion and co-operation.

"By order of the Committee,
"Rájendralála Mitra,
"Secy. Phil. Comtee. Asiatic Society."

Asiatic Society's Rooms, 27th March, 1867.

The Council recommended the election of H. B. Medlicott, Esq.,

F. G. S., in place of Colonel J. E. Gastrell, as member of the
Council and Honorary Treasurer of the Society;—of M. H. Ormsby,
Esq., LL. B: C. E., in place of H. F. Blanford, Esq., as a member
and Honorary Secretary;—and of Mr. Justice Phear and Coowar
Harendra Krishna, in place of the Hon'ble G. Campbell and Dr. T.
Oldham, as members of their body.

The receipt of the following communication was announced :-

From F. Hill, Esq. C. E. on the newly invented steam engine of Mr. R. W. Thompson.

At the request of the President, Babu Gour Doss Bysack read his paper on the antiquities of Bagarhat of which the following is an abstract:—

The village of Bägarhat is situated 30 miles to the N. E. of Khulneah in Jessore. Four hundred and fifty years ago it was the seat of a collectorate or telesildari, at the head of which was one Khan Jehan a Pathan nobleman of distinction. He greatly improved the place and erected many stately edifices, of which only two now remain, a tomb and a mosque. The former is a brick building 48 feet square and surmounted by a magnificent dome. The floor of the chamber is inlaid with encaustic tiles, and the gravestone—a large slab of Jeypur marble—bears date A. D. 1458. Close by it is a small grave which holds the mortal remains of one Pir Ally, a convert to Mahomedanism, who out-casted certain brahmins whose descendants are to this day known by the name of Pirallis. Close by this tomb there is a large tank, containing a number of tame crocodiles, whose blessings are sought by thousands

of sick and childless people every year. Three miles to the south of the tomb, stands a large mosque called the Sdfgumbaj or "the mosque of 60 domes." It is an oblong building, 144 feet by 96 feet, having sixty pillars of brick and stone and 77 domes on the roof. The floor is paved with encaustic tiles. At the end of the paper there is short account of a curious physical phenomenon, being a series of sounds as of distant guns which are heard at Bágarhat and all along the mouth of the Gangetic dolta to Bakergunge. After storms and during calms the sounds are said to be the loudest. Some suppose it to be the result of the surf breaking with force on a low beach, but the Bábu believes it to proceed from some subterranean cause.

At the request of the President Mr. Hill read his paper.

Proposed by Dr. Partridge and unanimously carried, that the thanks of the Seciety be given to Babu Gour Doss Bysack and Mr. F. Hill.

LIBRARY.

The following additions were made to the Library since the meeting held in May:-

Presentations.

. The names of Donova in Capitals.

Durjana Kari Panchánana by Rangachári Swámi.—Básu Rájendra Lána Mitha.

Report of the Government Charitable Dispensaries of Bengal for the year 1865.—The Govr. of Bengal.

Selections from the records of the Government of the N. W. P. New Series Vol. III.—The Govr. of the N. W. P.

The Rahasya Sandarbha, Vol. IV. No. 38.—The Calcutta School. Book Schieft.

Social Science for India, a paper read before the Oudh Scientific Association, by Syud Shurlooddeen.—The Oubh Scientific Association.

Bulletin de la Société de Géographie of Paris, for February 1867.— The Society.

Memoirs of the Geological Survey of India, Paleontologia Indica, Vol. V. parts 1-4.—The Surv. of the Geol. Survey.

Purchases.

The Indian Medical Gazette, Vol. II. Nos. 1, 2, 3, 4.

Cemptes Rendus, Vol. LXIV. Nos. 6 and 7.

Revue et Magasin De Zoologie, 1867, No. 1.

The Annals and Magazine of Natural History, Vol. XIX. No 3. The Ihis, Vol. III. No 9, New Series.

Revue des Deux Mondes, 15th February, 1867.

Reise der Oesterreichischen Fregatte Novara um die Erde, in den Jahren 1857, 1858, 1859, unter den Beschlen des Commodore B. von Wüllerstorf-Urbair.

Zoologisener Them: Fische, 1 and 2 Abtheilung, by Dr. Rudolf Kner.

Amphibion, by Dr. Franz Steindachner, 1 Band.

Vogel, by Dr. August von Pelzeln, 1 Band.

Formicidae, by Dr. Gustav L. Mayr.

Hemipteren, by Dr. Gustav L. Mayr.

Neuropteren, by F. Bruner.

Lepidopteren, by Dr. C. Felder and R. Felder.

Geologischer Them, by Dr. F. Hochstetter and Dr. M. Hornes, Vol. I. Parts 1 and 2.

STATISTISCH-COMMERCIELLER THEIL, by Dr. K. Scherzer, 2 Vols. Medizinischer Theil, by Dr. E. Schwarz, Vol. I.

Les Polynésiens et leurs Migrations, by M. De Quatrefages.

Dei Molluschi Raccoltí dalla Missione Italiana in Persia.

Catalogue Général de la Librairie Française pendant 25 Ans. (1840—1865) By O. Lorenz, Liv I, II, III.

Die Persischen Handschriften der K. Hof-und Staatsbibliothek in München, by J. Aumor.

Die Arabischen Handschriften der K. Hof-und Staatsbibliothek in München by J. Aumer.

Die Preussische Expedition nach Ost-Asien, Nach Amtlichen Quellen. Zweiter Band.

Révolutions et Migrations des Peuples de la Haute Asie, by A. Jardot,

Das Münz-, Mass-, und Gewichtswesen in Vorderzsien bis auf Alexander den Grossen, von J. Brandis.

Captain Beddome's Ferns of British India, Part XV.





Prospectus

FOR PURLICIONS OF SUBSTRICTION A TRANSLATION OF

THE LIFE OF GAUDAMA,

[BEVISED EDITION]

BY THE RIGHT REV. P. ELCLERET, D. D.

-191-

The value of the above work is fully appropriated by all readers of Boodhist himstory, and mode no recommendation

The former edition has been one of print some power, and is often magnit for. It is, therefore, proposed to term a Remod 2 bit a, with the notes improved and the text in a larger type than the former edition.

This common is not only a review but an improved my, in that it has been exempted with exercil Pales Leaf coules of the original, obtained from Burmah since the first was printed, and the text enlarged to a great extinu-

Should sufficient encouragement be given, the work will be put to press at once.

The book will be an Order of some the paper, and will be issued to subscribers, in said paper course, for Six Rapes per copy.

N. B.—The Secretaries of an Amus Society of Bengal will be p a region of the name of observers, and toward the ways, while published, to link a shouthest.

The Society have reserved they copies at Problem Remains Schlaggerweit's Lethermal chart of Falls, is a positions distribution to these members of the Society who wish for copies. They may be had in application to the Society.

NOTICE TO MEMBERS.

Anthony who flatte their communication to be discussed at the meetings of the Society previous to publication in the Journal, are required to send with the control paper, an abstract nature anding it to a octave pages of letter pages.

PROCERDINGS

ASIATIO SOCIETY OF BENGA

THE ARTERAL SECRETARY

No. VI.-JUNE. 1881.



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PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

FOR JUNE, 1867.

The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday, the 5th instant, at 9 r. m.

Dr. J. Ewart, in the chair.

The minutes of the last meeting were read and confirmed.

Presentations were announced-

- 1. From the Editor, the first Volume of the " Pandit."
- From the Königlich Preussischen Akademie der Wissenschaften, I. Abhandlungen, 1865.
- From the Government of Bombay, through Dr. R. L. Playfair, a copy of the "Fishes of Zamzibar."
- 4. From Lieutenant-Colonel B. Ford, Superintendent, Port Blair, specimens of a Fulgoria candelaria and a Phyllium Siccipia, and the Skull of a Dugong.
- The following gentlemen, proposed and duly seconded at the last meeting, were balloted for and elected as ordinary members.

The Right Rev. Dr. Milman, Lord Bishop of Calcutta,

Lieutenant J. Gregory.

W. Duthoits, Esq., C. S.

J. M. Scott, Esq., C. E.

Bábu Obboy Churn Mullick.

- The following gentlemen were candidates for election at the July meeting.
- C. A. Hackett, Esq., A. R. S. M., Geological Survey of India, proposed by Mr. Ball, and seconded by Mr. Ormsby.
- Dr. C. Macasmara, proposed by the President, and seconded by Mr. Ormsby.

N. A. Belletty, Esq., Civil Assistant, Topographical Survey of India, proposed by Captain H. H. G. Austan, and seconded by Mr. Grote.

Dr. J. J. Wood, officiating Garrison Assistant Surgeon, Fort William, proposed by Dr. Ewart, and seconded by Dr. Partridge.

The Council reported that they have elected the following gentlemen to fill up vacancies in the several Committees.

In the Library Committee,—H. B. Medlicott, Esq., and Cumár Harendra Krishna Deva.

In the Natural History Committee,—H. B. Medlicott, Esq., V. Ball, Esq., Dr. J. Ewart, and, Mr. Justice Norman.

In the Statistical Committee, -Mr. Justice Phear.

In the Linguistic Section of the Ethnological Committee,— Mr. Justice Markby.

A letter was read from Lieutenant-Colonel H. Raban, intimating his desire to withdraw his name from the Society.

Letters were read-

 From the Director of Public Instruction, forwarding a copy of Mr. Cowell's Report on the Toles of Nuddea.

No. 1547.

From the Director of Public Instruction, To the Secretary of the Axiatic Society.

Dated Fort William, 9th April, 1867.

SIR,—I have the honor to forward herewith, for the information of the Asiatic Society, a copy of a report on the Sanskrit Toles of Naddea by Mr. E. B. Cowell, late Principal of the Sanskrit College.

I have the honor to be,

Sir,

Your most obedient Servant,

W. S. ATKINSON,

Director of Public Instruction,

From E. B. Cowella, Esq., late Principal, Sanskrit College, Calcutta, to W. S. Atenson, Esq., Director of Public Instruction,—(dated the 19th January, 1867.)

Six,—I have the honor to forward you my Nuddea Report. As I have added at the end some remarks on its necessary defects and the causes of my long delay in sending it, I need not repeat them here.

I may add that the report would have been finished before I left India, if my time had not been occupied by some communications about the Madrassah, which took off my thoughts from the report.

I hope the report will be of some use, as it is. I wish I could return for a month to Nuddea, to make it better.

From E. B. Cowrea, Enq., late Principal of the Sanderit College, to W. S. Atkerson, Enq., Director of Public Instruction,—dated the 17th January, 1867.

Sir,—I have the honor to forward to you the following report of my visit, in 1864, to the Toles of Nuddea:—

In accordance with your instructions I proceeded thither with Mr. Woodrow, and we were accompanied by Pandit Mahesa Chandra Nyáyaratna, one of the Professors of the Sanskrit College, with whom I have for some years studied Nyáya, and to whose wide attainments in Hindu philosophy, as well as general ability and learning, I can testify from personal knowledge in the highest degree. We left Calcutta on Monday the 29th of February, and made Krishnagur our head quarters, whence we made daily excursions to Nuddea, which is about ten miles distant. I must not omit to mention that we received much attention from the Mahárájá of Nuddea, who held a quasi durbar of Pandits, which enabled us to make the acquaintance of many who did not reside in Nuddea itself. I returned to Calcutta on the Sth of March.

The word Tole (\$\overline{G} \vertical{TS}\$) is a Bengali word of uncertain derivation; but there are at least two Sanskrit words for the thing itself, chatishpāṭhi, i. e., a place where the four vedas are studied, and maṭha. The former does not seem to be an ancient word, as I do not find any authority for it in the St. Petersburg Sanskrit Dictionary, except the Sabda Kalpa Drāma of Rājāh Rādhā Kānta Deva; but maṭha is an old word and occurs at least as far back as the Amara Kosha.

The institution is curious and interesting, as being undoubtedly a remnant of old times. It represents, in fact, the same state of feeling in ancient India as that which we find in ancient Greece, and which so continually comes up in Plato's controversies with the Sophists or paid Professors of his day, viz., the popular prejudice against receiving mercenary reward for the communication of knowledge. The Pandit of a tole should properly not only instruct his pupils gratuitously,

but he should also provide them with food, clothing and lodging, during their stay under his teaching. He himself is to be remunerated indirectly by the invitations and presents which celebrity as a teacher would ensure his receiving at the religious ceremonies of the neighbouring remindars. Thus my own visit was delayed some weeks in consequence of all the principal Pandits of Nuddea being absent, as they had gone to attend the graddha of the late Rajúli of Cooch Behar. The tole system of Nuddea has, however, degenerated in this as in other respects. The Pandits of most toles in other districts still lodge and feed their pupils; but those of Nuddea, with very few exceptions, have been able to break through this custom. They now only supply their pupils with lodging, the reputation of Nuddea no doubt enabling them to attract students from other toles in spite of the greater inducements which the latter offer.

The chief studies of Nuddea are Smriti and Nyaya. It is the latter, especially, for which its name is celebrated all over India. Other provinces have their own peculiar schools of law, and Nuddea, therefore, can generally only attract students of Bengal to its Smriti toles; but in logic it has an unrivalled reputation. Chaitanya, the celebrated reviver of the mystic worship of Krishna at the close of the 15th century, was a native of this place; and it has produced a succession of great Naiyayika teachers, whose names are household words in every Papiti family in India. In fact the name of Nuddea is associated with the latest development of the Nyaya philosophy.

The ancient Satras or Aphorisms of Gotama do not represent the modern logic of India; and although the recent school may have added little or nothing to the real discoveries of the Hindu Aristotle, they have undoubtedly claborated a most refined system of logomachy, far surpassing in subtilty and ingenuity all the scholastic disputations of mediaval Europe.

One of the most celebrated mediaval logicians was Gangeça Upāallyāya of Mithilā, who wrote a large treatise, called the Chindmans, in four sections on the four Naiyāyika pramāņas or sources of knowledge, i. e., perception, inference, comparison, and testimony. It is this work which has furnished the text to the modern Nuddea school. Its most renowned members are the following.

 Raghunatha Çiromani, who wrote a commentary on the first two sections of the Chintamani. This is called the Didhiti.

- Mathura Natha Tarkavegiça, who wrote a gloss on the Didhiti and also an original comment on Gangeça.
- 3. Jagadiça Tarkálankára, who also wrote a commentary on part of the Didhiti as well as many other works, especially a very colobrated treatise on logic and grammar, called the çabda-çakti-prakáçiká.
- Gadádhara Bhattáchárya, who wrote a commentary on the Didhití and a series of works, such as the Vishayatá-vádártha, &c., on the abstrusest mysteries of the modern logic.
- 5. Çankara Tarkavágiça, who wrote a commentary called Patriká, on the harder passages of Mathurá Nátha, Jagadiça, and Gadādhara. He seems to have flourished about sixty or seventy years ago: and it is he who is said to have brought to its height the present vicious system of disputations logomachy which prevails in Nuddea.

A tole is generally a mere collection of mud hovels round a quadrangle, in which the students live in the most primitive manner possible. The Pandit does not reable with them, but comes to teach them on the lawful days. Each student has his own but, with his brass waterpot and mat, and few have any other furniture. Most make their own copies of the books they use, and a large part of the year is vacation, during which they wander over the surrounding country on begging expeditions; but during the reading months much hard mental labour is undoubtedly gone through. On one side of the quadrangle there is a "lecture hall," usually on a raised platform, some three feet from the ground; it is open on one side, and just sheltered on the other three from the min and wind. In some toles it is only a thatched shod; in others it is a little more elaborate. Only one tole in Nuddea can boast of any external adorament. This is the tole of Pandit Prasanna Chamira Turkaratna. It was built for him by a Baba of Lucknow, and is really an elegant building, occupying about a beegah and a half of land. The quadrangle inside is about thirty yards square and contains thirty rooms for the students. The rooms are generally about nine feet long and eight wide, with a window and door; the corner rooms are rather larger. More than half of one side is given up to a lecture hall or delide. This stands on a platform raised some five feet from the ground; it has two spartments, each about thirty-three feet in length, the outer is ten, the inner twelve feet wide; and the front is supported by six pillars which produce a very good effect. The other toles have no architectural display whatever. Everything is of a more than Spartan simplicity; and one cannot help honouring the zeal for knowledge, however misdirected the zeal or useless the knowledge, which leads so many students, generation after generation, to devote themselves to such monastic privations and hardships. The love of tame is, no doubt, the motive with many. The fact of having studied at Nabadwipa and gained an *upidhi* there, will cusure respect for a Pandit in every part of India, from Lahore to Travancore. But there are some who are led by less worldly motives. These come to study Nyaya, as students came to the University of Paris in the middle ages, and one can hardly fall to be reminded of Chaucer's lines about—

"The clock of Oxenforde also
That unto logik hadde long ygo;
As lene was his horse as is a rake,
And he was not right for, I undertake,
And able that he was a philosophre,
Yet hadde he but litel gold in cofre."

I could not help looking at those unpretending lecture halls with a deep interest, as I thought of the Pundits lecturing there to generation after generation of eager inquisitive minds. Scated on the floor with his 'corona' of listening pupils round him, the teacher expatiates on those refinements of infinitesimal logic which make a European's brain dizzy to think of, but whose labyrinth a trained Nudden student will thread with unfaltering precision. I noticed during my visit middle-aged and even grayhaired men among the students of the celebrated toles, and some of these had come from such widely different homes as Labore, Poorce, and the Tamil country.

I visited every tole in Naddea, and examined every one with my Pandit more or less thoroughly. The following is a list; but the number of the students is probably not wholly accurate, as of course no register of attendance is kept, and it was not easy to decide whether absent students were really to be counted on the rolls or not. Professor Wilson found from 500 to 600 pupils at the time of his visit in 1829, the number is now less than 150. Part of the decrease may no doubt be attributed to the prevalence of the spidemic which has driven many away, and prevented others from

coming; but there are other and permanent causes at work for the overthrow of the scholastic glory of Nuddea.

Smriti.

- I. The tole of Brajandth Vidydratna. Here there were seventeen students, four from the districts round Nuclea (deciya₁) and thirteen from other parts of Bengal (bideci.) These from Bengal came from Dacca, Rungpore, Dinajpore, Jessore, Rajshahi, and Pubna.
- That of Rāmnāth Turkavildhānta. Hore there were ten bideçi and five deçiya students. The former came from Jessore, Khunla near Dacca, Dacca, Tripur, and Burisal.
- That of Mudhusudan Nyáyacutua, the brother of Hara Mohan Chudamani. Here there were three deciya and seven bideci students, the latter from Jessore and Burisal.
- 4 That of Hariddsa Ciromagi. Here there were four students, two from the neighbouring district and two from Dacca.
- That of Gib Nath Bidyandcharputi. Here there were four students, two of whom came from Midnapore and one from Jessore; the fourth was a native of the Nucleus District.
- That of Prassana Gandr Vidydraina, brother of the deceased Qri Rām Tarkamtna. Here there were fourteen students, twelve of whom were bidect, i. e., as coming from Burisal, Dacca, and Chittagong.*

Nyaya,

- That of the two brothers, Hara Mohan Chuddmagi and Bhavan-mohan Vidydratna, and their uncle, Baghamagi Vidydbhushan.
 Here there were twenty-one students, four deglya and seventeen bidegi,—the latter from Furrendpore, Burisal, Dacca, Midnapore, Jessore, Mithila, and one even from Nepal.
- That of Prasanna Chandra Turkarataa. Here there were eighteen students, fourteen of whom were bideci, i. c., six from Mithilá, five from Delhi and Lahore, two from Poorce and one from the Tamil country.
- That of Madhava Chandra Tarkasiddhanta. Here there were sixteen students, eight of whom were bideri, i. e., four from Bakla near Comilla, two from Dinajpore, and two from Jessore.
- * His pupils were quite middle-aged and some greyheaded. They wished to read with him, though a young man of twenty-five, as he belonged to a family long renowned as Smarta Papilia.

- That of Hari Nith Türkoniddbänta. Here there were thirteen students, ten of whom were bideri, i. s., five from Midnapore, four from Mithiia, and one from Nepal.
- That of Krishna Kanta Giroratna. Here there were two students, both from Jessore.
 - 6. That of Brahmaçrumu Swdmi, a dandi Goswami.

He had lately had seven students, but only one was with him at the time of my visit. His former house was destroyed by an inundation of the river. Before him it had been occupied by a very celebrated dasdi named Swayam Prakāça; and tradition reports that it was at that house that the once projected College of Nuddea was to have been established.

Thus at the time of my visit I found only twelve toles, Professor Wilson in 1829 appears to have found twenty-five!

Besides these regular toles, there is also an udasin or ascetic recluse from Pooree, named Kaçi Nath Çastri, who teaches Vedanta to the students of other toles:—

The following are some of the celebrated pandits in Nuddea without toles.

- Lál Mohan Vidyábhushan.
- Nanda Kumár Vidyábhushan. These two are very learned in Smríti.

The following are profounly versed in Nyaya:-

- S. Umacharan Tarkaratna,
- 4. Rájnáráyana Nyáyabhushan,
- 5. Nilmani Sárvabhauma,
- 6. Surya Kánta Vidyálankár.
- 7. Raghumani Tärkapanchänan.
- 8. Umá Kánta Nyáyaratna.
- 9. Purushottam Nyayaratna.

Of course there are also many toles in the villages round Nudden, these I did not visit; but I particularly heard of that of Lakshmi Kanta Nyayabhushan, the purchit or family priest of the Maharajah. He teaches Smriti at Barigachhi, about ten miles to the north of Nuddea. I also heard a good deal of the Nyaya tole of Prasuma Chandra Nyayaratna at Belpbkhar, three kroses north of Nuddea. This Pandit was one of the six who signed the petition to the

Lieutenant-Governor, the other five being, I believe, Nuddea Paudits. He told me that he had twenty-two students, eleven decige and eleven bideci from Mithilá, Burdwan and Delhi.

The Smriti students are said generally to study at a tole for eight years, the Nyāya for ten years.* All toles are closed for ten days in each month, i. e., on the 1st (pratipada), the 8th (ashtami), 13th (trayodaçi) 14th (chaturdaçi) and 15th paurnamasi) of each paksha or fortnight, beside two weeks for the Saraswatee pooja and occasionally for other parvas. In Nyāya toles they close from Ratha to Rāsa, i. e., from Ashādha to Kārtika (five months). In Smriti toles they close for three months, from Bhādra to Kārtika. But of course the studies are liable to irregular interruptions when the Pandits receive invitations from the zemindars. During the vacations the students go on begging expeditions (much as Hindoo and Buddhist ascetics have been famed for doing from immemorial times), or they return to their homes.

The studies at the Nuddea toles are chiefly confined to the following works, or parts of works, on logic and law:—

The chief works read in Nyáya or Logic are, besides the well known standard works, the Bháshá-parichchheda and its commentary the Siddhánta Muktávali.

- For Vyapti or the doctrine of the syllogism (comprising also the endless subtleties on pakshata, or the conditions and rules relating to the minor term in its connection with the major term and the middle), the commentaries on the Didhiti by Mathuranatha, Jagadica and Gadádhara.
- For heticabhasa or the fallacies, the commentaries of Jagadiya and Gadadhara.
- 3. For Sandayalakshana jadaa (one of the most abstruse discussions of Hindu logic, referring to the transcendental perception, by which the mind, as it were, seizes the class in the individual, or, more properly, sees all the individuals under the one now present to the eye), the commentary of Jagadica.
 - 4. The Kusumanjali, or the celebrated attempt of Udayana

^{*} Of course but for the continued interruptions the course of sindy could be finished in half the time.

Acharya to establish on Naiyayik arguments the existence of the Supreme Being.*

The Cabda çakti prakāçikā of Jagadiça.

The chief works on Law or Smriti are-

- 1. Parts of Raghunamlana's Ashtávinçati Tattwa.
- 2. Dáyabhága,
- 3. The Craddha viveka.
- 4. The Prayacchitta viveka.

The peculiarities of the Nuddea scholastic training may be summed up at once by a reference to that part of Bacon's Navum Organous which describes the system of scholastic logic still current in his day. In the 29th Aphorism of the first book he says that those sciences which are founded on opinions and arbitrary dogmas have a natural affinity to anticipation rather than to interpretation, and to the scholastic logic rather than to his proposed induction, for their object was to subdue assent, not things; to win victory in a disputation over an antagonist, not to extend man's dominion over nature. We have here an exact account of Nuddea logic, and the class of men whom it tends to educate, -its sole and is vichara, to win victory at a festival by elever arguments which silence the opponent for the time being. Many Pandits devote most of their attention to the purvapakshas, i. e., those parts of the popular treatises which give at great length the arguments of the opposite side to the author,-it being the established rule in Hindu dialectics that every writer must present at full his opponents' visws and exhaust all that can be adduced in their favour, before he proceeds to overthrow all that has been brought forward and to establish his own opinion.† These Pandits are thus enabled to stock themsalves with a store of plansible arguments to oppose a popularly received opinion, and thus to win the credit of ally supporting an apparently hopeless cause. The very form of Hindu logic necessitates

^{*} This has been edited with an English translation by the author of this Report.

⁺ The writer has heard Pundis Iswar Chunder Vidynmour relate how he first conceived his diagnet at the native Nyaya, when as a student he once spent a week of hard labour to master some abstruce opinion, which day after day was stuckdated and at length made clear by the teacher. When the class met the next day, the first thing they have was, "now this riew is only the purcepaksha, we must now proceed to show that it is incorrect."

error,—it is so fatally bound up with technical terms, that it inevitably degenerates into a mere playing with words; and this tendency, which is to some extent an inherent fault in European, as well as Hindu, mediaval logic, becomes exaggerated to its height in the modern Nuidea school.

In three of the toles we had the students exercise themselves in a discussion; and it was very curious to watch the intense eagerness of the disputants, as well as the earnest sympathy of the surrounding students and Pandits. A successful sophism slicited a smile of approbation from all.

The subject of one of these disputations was Sadhyabhava or the absence of the major term. I could not follow the intricacies of the argument, but its summary was as follows,—

All accept that Salhydbldva means the absolute absence of fire, as, e. g., in a lake of water. But how is this to be understood?

a .- In the sentence the lake has the total absence of fire or is totally destitute of fire; it cannot be merely meant that all fire collectively is absent, because this equally applies to a volcano, as that has indeed fire, but it is only mountainous fire and not kitchen fire. The sentence would, in fact, be useless, as it would be as true of any thing in the world as of your lake, -nothing can have all fire in it. b .- Again, as the volcano has the absence of fire and a jar, i. e., has not fire and a jer both together, this is another way in which we might say that the same description would apply (if unlimited) to a volcano and a lake, c .- If you say the lake has Kobala-vahni-abhava, i. e., has the absence of fire alone, this gives rise to a quibble on the meaning of 'alone.' This is met by defining it, as "it is not the absence of anything besides fire but only the absence of fire," (বছাটেরের অভাব নছে কিন্তু বাছার অভাব), this stops the apparent fault (or fallacy) of Ubhayapaksha. Then comes the question, "what is the meaning of the absence of all fire?" It is explained by corn sis at airs, there not being any fire there,-now in the mountain there is some (case) fire, and it is the absence of may (COTH) that distinguishes the lake. Then comes the question, what is meant by 'anything besides fire?' Does fire mean heremountain-fire or any kind of fire, and so on, for ever? For the series of endlessly emerging quibbles is never stopped by the exhaustion of the subject, but only of the disputants or the andience.

At the present time all vickarus are of this kind,—not to elucidate the real meaning (for this is accepted on the authority of the writer), but to endeavour to establish or overthrow some verbal quibble which seeks to impugn the perfect accuracy of the definition.

In the teaching of the Pandits everything is directed to one end, ad hene disputandum. The primeval fault of the Hindu intellect has always been an excessive tendency to note the differences of things;* and of course such teaching in logic and law only fosters this defect to the highest possible degree.

As a specimen, I would subjoin a disquisition on the nature of prohibition given by Pandit Brajanath Vidyáratna, the leading teacher of Smriti.

A student was selected during my visit to his tole to read and explain a portion of one of Raghunandana's Tattwas. The passage brought up the question of prohibition or Nishedha, and this led to the Pandit's giving a lecture on its nature and object.

I must here premise that in Hindu logic there are three kinds of abhden, i. e., non-existence or absence.† These are respectively called "antecedent" (pragabhava)," emergent" (dhwansabhava) and "absolute" (atyantabhava). The first is the non-existence of a jar before it is made, which lasts from eternity down to the moment of its production and then ceases. The second is the non-existence of a jar when it is broken, which begins from the moment of its fracture and goes on to eternity forward. The third or absolute non-existence is seen in such sentences, as "there is no jar on this spot;" even if you move the jar thereto, there will be no jar in its former spot. The non-existence is always seen necessarily somewhere, else the jar would be omnipresent.

Now the Pandit malutained that the object of "command" (or eidhi) was to produce action or activity (pravritti); and similarly the object

^{*} This tendency was at once the strength and weakness of the self-developed Hindu mind. Compare Normal Organica, i. iv. "Maximum at voint radicale distribute ingenioram, quoad philosophium et scientias, illud set; quod alia ingeniora te oriora et aptiora ad sociandos recum defensacias, alia ad notandas natur similitadinas. Utrumpas impenium facile labitur in excessum, premando aut gradus recum aut umbras."

t Properly there are four, but the fourth (mutual or inter-exclusive nonsaistones) does not come in here. This is in fact our 'difference';' thus a jurand a chair mutually exclude one another, i. s., they are different things.

of nishedha or "prohibition" was to produce the absence (or nonexistence) of activity, i. e. pracritter abhava. Now the question arises to which of the three kinds of abhava does this belong?

He first showed that it could not be the third or "absolute" abhara, as this would imply that the absence must always exist somewhere, whether the prohibition be given or not. Neither could it be the "emergent," as this would imply that the actions prohibited must necessarily have been previously done, before the prohibition could exist, -as if there could be no such thing as prevention but only cure! He therefore, concluded by exhaustion that the non-existence of action which a prohibition produced in its hearers was "antecedent" or pragabhãea. In other words, until the prohibition is promulgated, the actions which it is to prohibit are of course not prohibited; they are not, therefore, so long the objects of its injunction; they only become so from the moment of its being issued. From the moment of its issue, these actions are forbidden, i. e., the hearer of the law will thenceforth not do them. There will therefore, in his case, be an absence of such prohibited actions, which will continue until he violates the law; and this absence will of course reach back to eternity, as until the prohibition came, he never could have committed them as prohibited. In other words, the non-existence of prohibited actions ceases only when, ofter the prohibition, some such action is performed.

This I think, is a fair and perhaps favourable specimen of the nicetics of what Dr. Hall has well called "the argana of Hindu dialectics."+

One of the things which most interested and surprised me in my visit to Nuddea was the great desire which I found everywhere existing for English education. Of course amongst the bideci students this did not exist; the grown up and elderly men who come to Nuddea to complete a nurely Pandit education, only care for studies which will gain them reputation at home; but it is very different with the decign students, I was continually receiving applications from the students for a free

phical systems, p. 32.

^{*} The Pundit's reasoning is perhaps (Blustrated by Gibbon's remark on the injustice of a retre-active enactment, "which paralless offences which did not exist at the time they were committed." (Andohiographys p. St.)

† A contribution towards an index to the Hibliography of the Indian Philoso-

education in the Sanskrit College; everywhere the desire was expressed for a good Anglo-Sanskrit School. Such a school would effect more than anything else to abolish projudice and to let light into a district which has long been a home of superstition and bigotry. The Church Missionary Society have long had a grant-in-aid school there. During the time of the Reverend S. Hasel, Sanskrit used to be taught there to a certain extent; but what is wanted is a thoroughly good school, educating up to the Entrance Examination, and at the same time giving a sound training in Sanskrit Grammar and Poetry. Perhaps the existing school could be adapted to this purpose, if the Church Missionary Society were disposed heartily to enter into it. Anyway the establishment of such a school, either by the Church Missionary Society or by Government, appears to me to be a pressing want, and I should indeed rejoice if my visit resulted in such a measure. Compared to this, the question of improving the toles is a measure of very secondary importance.

This leads me to notice a very interesting feature in Nuddea, which I was much surprised to find, and which seems to me a very remarkable proof, how a public demand is beginning to make itself felt for a better education than that given by the toles, even among the orthodox Hindu population. I refer to the Akhadas (21431). These are schools kept by pupils of the Smriti or Nyaya toles, who here become in their turn teachers of grammar. I visited two of these schools, one held in the house of Pandit Ram Nath Tarkasidahánta, and taught by Çri Náráyan Bhattácháriya and Çri Madhab Bhattacharjya. Here there were twelve students, second was held in the house of Paudit Radhaballabha Bhattacharyya and was taught by Kumuda Natha Çîromagi and several other tole students. Here there were twenty-five scholars. In this Akhodá three students had finished the native grammar Mugdhabodha, and began to read Kalidasa's poem, the Kumara Sambhava. I was intersected to learn that two of the lads studying there were descendants in the seventh generation from the celebrated Pandit Jagadiça. In the first 'Akhada' a little English was also taught, and the first book of reading was in use. This last fact seems to me most significant, that even in Nuddea, the centre of Hindon exclusiveness, in a school entirely under the management of tole

atudents, a provision was made, however imperfect, for teaching some little smattering of the language and learning of the West.

The toles of Nuddea receive at present an annual pension from Government of Rupees 1,200. The history of this grant appears to be as follows:—

The Committee of Revenue found in 1784 that the Rajah of Nucldea used to grant an allowance to the Padooas (পহুতা) or Sanskrit students of the toles, and in September 1784 they appear, to a certain extent, to have sanctioned an annual grant of Rupees 1,200 to this object. It was paid from the Treasury of Nuddea, and distributed to the students by a person on the part of the zemindars.*

On the 18th May, 1787 (further enquiry having been instituted) the Board of Revenue directed the Collector to continue the payment of the pension for the present, and to charge the same under the head of 'Pension.' On the strength of this order it was regularly paid to the students at the rate of Rupees 100 per measure. In 1829, at the request of the Collector of Nudden, the Civil Auditor (April 6th) made a reference enquiring as to the authority on which the pension was granted. The Board on the 6th June quoted their letter of the 18th May, 1787, and at the same time stated thus-"There is no mention whatever of this allowance on the accounts or correspondence relating to the decennial settlement; and if the payment has been continued without enquiring on the authority, it ought to be immediately suspended and a full explanation of the irregularity furnished by the Collector." The allowance was in consequence discontinued, but a remonstrance from the Nuddea students was received with the recommendations of the Moorshedabad Commissioners, dated 22nd January, 1820, and was submitted to Government on the 12th February,

Meanwhile the late Professor H. H. Wilson (then Junior Member and Secretary to the General Committee of Public Instruction) had visited the toles and reported on their state; and in a letter dated 3rd August, 1830, Government sanctioned the

Professor Wilson in his Report describes this distribution as it existed in his time, 1829. It was given to the bidesi students, i. s., those who came from places more than three days' journey from Nuclien, and it allowed them from twelve names to one rupce per measure.

continuance of the pension with arrears, and the payment has continued to the present time.

Professor Wilson remarks in his Report-" Although the value of the learning acquired at Nucldea may not be very highly estimated by Europeans, yet it is in great repute with the natives, and its encouragement even by the trifling sum awarded is a gracious and popular measure;" of course, with the spread of English education in Lower Bengal the native estimate of the value of "infinitesimal logic" and the toles which teach it, is gradually altering, and I have heard many of the most able English scholars among the natives speak somewhat strongly against the system. As it is at present conducted, there can be no doubt that the Nyaya toles of Nuclea teach very little that is of any worth, either for practical life or even the history of the human mind; but this partly arises, not from the barren nature of Hindn logic, but the barrenness of the special part of it, to which they exclusively confine their attention. It is, as if in Oxford we neglected the Organon of Aristotle, and exclusively studied "the Farrago of the Parva Logicalia." But if the really great writers on Hindu logic were systematically taught in the toles of Naddea, I should hardly be inclined to condemn as worthless all that the students would learn there. As it is, they learn only a part even of Nyaya, and I found that very few could read any portion of the Kusumanjali, or knew much beyond the endless Intricacies of Vyapti and pakshata. Here of course they were completely at home, -it was a marvel to see how completely.

I am hardly prepared to suggest a definite plan for the improvement of the Nuddea toles, because I think that this would require a practical acquaintance with Mofussil education, which I do not possess. But there are two suggestions which I would venture to make:—

1. It would be a great improvement, if some superintendence could be exercised over the Sanakrit studies, and if rewards could be offered for thorough proficiency in the studies of the place. At present the certain effects of neglect and the absence of all encouragement are plainly seen in the toles,—they do not teach well what they profess to teach, every thing is childed by the want of Santa from those in authority. Now regular examinations (with many rewards) in "Mansol's Abbrich, Pref.

certain text books, held under the superintendence of the Inspector by such a Pandit of the Sanskrit College as Maheya Chandra Nyayaratna, would give the needed stimulus. Examinations should also be held in the Mugdhabodha or Sanskrit grammar.

2. It seems to me very needful, that, as the condition of a liberal help for the Sanskrit studies, Government should insist on some amount of useful learning being also taught. Some arithmetic and perhaps geography and history, and (still better if it were but possible) some little Western Logic and Moral Philosophy would be an invaluable auxiliary and corrective to the peculiar training of a tole. Of course this must all be given in Bengali, and I have no doubt that a sound knowledge of Bengali itself is very rare at Nuddea, even among great Sanskrit scholars. In this way we should break into the narrow circle of prejudice and exclusiveness which hedges round so closely the students of Nuddea, and we should fit them for exercising a beneficial influence on their countrymen. At present they necessarily belong to the past, and are utterly unable to sympathise with or understand the mighty movements round them. A Nuclea student is an exact counterpart to Gibbon's description of the sophist Libanius, " a recluse student, whose mind, regardless of his contemporaries, was incessantly fixed on the Trojan War and the Athenian Commonwealth." Still, after all, their position and training unavoidably give them great influence among their countrymen, especially away from the towns. This influence is, no doubt, at present used everywhere against the progress of education and social improvement; but surely it would be an object well worth striving for, if we could improve, not abolish, the time-honoured tole, and if we could change the character of the students whom its system tends to form, into sound Sanskrit scholars instead of disputations pedants, and into the friends, instead of the enemies, of native education.

I beg to forward you the above Report, and I must express my deep regret that I have so long delayed sending it. Much of it was written in India before I left, and I had hoped to send it completed soon after my arrival in England, but ill-health and prostration of energy precluded it, and subsequently I found it very difficult to collect the scattered fragments of my notes into a narrative. As it is, I feel it is very imperfect, and had I my Pandit Maheça Chandra by my side, I could easily increase its value tenfold.

An you have expressed a desire to have my Report, such as it is, I have resolutely gone over all my notes and memoranda and rewritten the whole, and I send it with all its shortcomings and defects. It is not easy to write a Report on Nuddea in England. Little details have escaped me which I overlooked at the time, and which I now cannot supply; but I feel sure that the general impression I derived from my visit to the toles is still as vivid as it ever was.

 From the Secretary to the Government of India in the Home Department, forwarding copies of a report on the manufacture of China grass by Mr. McClintock, American Vice-Consul at Bradford.

Revenue.

India Office, London, 7th March, 1867.

No. 12.

To His Excellency the Right Honorable the Governor-General of India in Council,

Sm,—I transmit to your Excellency in Council thirty copies of a Memorandum, by Mr. McClintock, American Vice-Consul at Bradford, respecting the manufacture of China Grass, and the price which can be obtained for it in this country, which I have received from Her Majesty's Secretary of State for Foreign Affairs.

- 2. Lord Stanley, in transmitting this paper, informs me that he has ascertained, through the Bradford Chamber of Commerce, that the importance attached by the writer of the Report to this article is not exaggerated, and that nothing but its high price stands in the way of its being largely consumed.
- 3. Under these circumstances, I agree with the Secretary of State for Foreign Affairs that it will be useful to forward copies of the Report to any of the Officers of your Presidency who reside in places which may be favorable to the cultivation and export of this grass.

I have, &c.,

No. 4159.

CRANBORNE.

Copy of this Despatch, together with three copies of the Report referred to, forwarded to the Secretary, Asiatic Society, Bengal, for information.

By Order,

(Sd.) A. P. Howell,

Under Secy, to the Govt. of India.

Fort William , Home Department ; the 22nd April, 1867. Report by Mr McClintock, American Vice-Consul at Bradford, respecting the Manufacture of "China Grass."

> Consulate of the United States, Bradford, December 15th, 1865.

The Chinese have for centuries made, by hand labour, various descriptions of "grass cloth," well known in America and Europe, and often of great strength and beauty, from the fibre of the *Bochameria cordata* or *Urtica nivea*, known in commerce as Chinese grass.

Large quantities of the grass have at various times been brought over to England, and probably also to the United States, in the hope of finding a market among the dry goods manufacturers who are always on the look-out for new materials; but it has hitherto been, and it is even now, found impossible to produce a true "grass cloth" by machinery. The fibre is rather brittle, though very strong, and it is found that the China grass cloth of commerce is only to be woven by hand labour, in which, of course, the Chinese themselves are beyond the reach of competition. Large quantities of the grass have, therefore, been in store in London and elsewhere for years, Some enterprising manufacturer would occasionally purchase a few tons with which to make experiments; but the only result for a long time was, that he who experimented the most, lost the most. Thousands and even tens of thousands of pounds were sunk by one and another, who each fancied for a time that he had discovered the true method of working up this intractable substance. Whether it was tried in the United States or not, I do not know; but the concurrent testimony of my American friends in the trade is, that no one is now successfully working it at home. Within two or three years past, however, several firms in this neighbourhood have succeeded, by chemical means, in bringing the fibre into a state most closely resembling the best mohair or other bright worsted, and have worked up great quantities of the refined material as a substitute for worsted in many kinds of stuff goods, always, however, in combination with cotton (the warp being of cotton and the west of the China grass), as they have not yet been able to work it properly alone.

The manufacture of worsted goods—that is, of goods made of long-staple wool, as distinguished from short-staple or ordinary woolhas become an immense trade, of which Bradford has at present almost a monopoly, although the manufacture has lately been extending in many parts of New England. Four-fifths of these goods are of mixed material—that is, are made with cotton warps. And for many articles of the kind, especially for those requiring a stiff, strong, and cool texture, combined with a glossy, silky appearance, it is found that the prepared China grass makes the very best material.

Of course, the grass manufacture is yet in very few hands, but its development already, even within the last few months, has been signally rapid. The market value of the raw material has for some years past maintained itself at the very high rate of about 80% per ton, which price it is supposed cannot be much lessened for many years to come. Two things are certain in this respect: one, that there is now, and will be here, a practically limitless market for all raw "grass" that can be imported at from 70% to 80% per ton; the other, that under any fluctuations of the market the material is intrinsically so valuable that it will always in the future command a price as high as that of cotton, and nearly or quite as high as that of worsted itself, if not even higher.

Here, then, is a great and rapidly increasing market for a certain vegetable production at a very high price. In America we have, on the other hand, vast tracts of country which, being in the same latitude and with very much the same climate as those districts of China of which the grass is native, should be able to grow this production to great advantage. Why not, then, introduce its culture?

It seems certain that the manufacture of the grass fibre will be established in our country at no distant day; but in the meantime there is a market in England for all that we can conveniently grow. It is, for our planters, simply a question of experiment with the seed, having in view the market price of the raw produce. Successful experiments have been made very recently in Java and in India, proving that the grass will grow in any climate warm enough for the culture of cotton and sugar, provided the ground chosen be sufficiently moist.

I venture to suggest that further information, as well as quantities of the seed, &c., can doubtless be furnished by our Consular Officers in China, especially, perhaps, by the Consul at Hankow,

that place being the chief market for the grass, which is brought thither from the interior, and often from a great distance.

The receipt of the following communications was announced.

- 9. From C. F. Amery, Esq., " On the origin of races."
- From Bábu Pratáp Chandra Ghoshe, B. A. "On the Adjustment of the Hindu Calendar."
 - 11. From Dr. J. B. Davies, the Ethnology of India.

At the request of the President, Babû Pratap Chandra read his paper, of which the following is an abstract,

The Hindu Civil year is a practical modification of the Hindu astronomical year. The astronomical year is determined by the period between two consecutive conjunctions of the sun with Agwini (β Aristis) the first asterism of the Constellation Aries. In determining the civil year we have only to reject the fractions of a day; thus, if the sun enter the first point of Aries at or after midnight of the 12th April, a day is to be added to the expiring year; or, if the sun enter on the morning of the 12th, we reject the day from the year.

The Hindu calendars placing the conjunction of the sun on the 13th April of the current year begin the year on that day. By a reference to European Tables and the solution of a few simple spherical triangles it is shown that the ecliptic conjunction of the sun with β Arietis happens in the present day between the 21st and 22nd April. The initial moment of the year was placed in former times on the vernal equinox, when the sign and the constellation Aries coincided. Owing to the retrograde motion of the equinoxes and to the neglect of Hindu astronomers in correcting the time of the first moment of the year, it has slowly advanced from the equinox at the rate of one day in 72 years.

The first moment of the Hindu year retains in its name the idea of its coincidence with the vernal equinox and the first moment of the ecliptic conjunction of the sun with the first point of Aries, a phenomenon that does not exist.

The vernal equinox is removed from the first of Vaiçākha by a period of about 22 days, and the moment of ecliptic conjunction of the sun with β Arietis is about 7 days in advance of the date. The paper is an attempt towards so adjusting the Hindu Calendar as will make its indications agree with reality. To make the year begin with the ecliptic conjunction of the sun in the vernal equinox is an impossibility. To retain then the full idea which the name make vishava mesha sankranti conveys, is out of the question. The year must then be commenced at either of the two dates, the 10th of March, or the 22nd of April. The latter is preferred on account of the advantages the new method will confer on calculations.

A translation of the principal points of a circular issued in Sanscrit is appended. This quotes the most authoritative passages, showing that a change of the beginning of the year on account of the precession of the equinoxes is not contrary to the Çastras, with a Hindu the authority of the Çastra being the only argument.

Some doubts as to the propriety of performing the Ghatotsarga ceremony on the 31st of Chaitra having arisen, Professor Bápu Deva of Benares was addressed on the subject. The Çástri replied favourably. His reply, with the original query, is appended to the circular. The circular quotes passages from the Súrya Siddhánta, the Soma Siddhánta and other astronomical works, to show that the Hindu authors admit of and give rules for determining the motion of equinoctial points.

Read a letter from Major C. H. Strutt, enclosing the following description of a coin of Sophytus.



Observe. Head with helmst and cheek plates, a crown of laurel wreath over the helmst; no inscription.

Reverse. A cock in splendid preservation with a Greek inscription perfectly plain, ΣΩΦΥΤΟΥ " of Sophytus," Monogram 8 the Caduceus or Mercury's Rod.

Purchased somewhere in the Peshawur district, from a zemindar, together with several coins of the Bactrian series, a gold Diodotus, two Alexander the Great's coins, and one of the Bacephalus coins. All of these coins are in perfect preservation.

LIBRARY.

The Librarian submitted a list of books added to the Library since the last meeting.

Purchase.

Reise der Oesterreichischen Fregatte Novara. Zoologischer Theil, Lepidoptera. By Dr. C. Felder,

Dictionnaire Turc-Arabe-Persan. By Dr. J. T. Zenker. Heft XI.

Sanscrit Wörterbuch, By Otto Böhrlingk and R. Roth, Bogen 31-40.

Revue et Magasin de Zoologie, 1867, No. 2.

Revue des deux Mondes. 1st and 15th Mars, 1867.

Ibu-el-Atheri, Vol. L.

Comptes Rendus, Tom. LXIV. Nos. 8 to 12, 1867.

The Indian Medical Gazette, Vol. II, Nos. 5, 6,

Hewitson's Exotic Butterflies, No. 62.

The Journal of sacred Literature, April, 1867.

The Quarterly Journal of Science, April, 1867.

Journal des Savants, March, 1867.

The Annals and Magazine of Natural History, April, 1867.

Catalogue de Livres Anciens et Modernes, Supplement.

The Westminster Review, April, 1867.

The Calcutta Review, May, 1867.

Exchange.

The Athengum for Feb. 1867.

Presentations.

Transactions of the Royal Irish Academy: -Science, Vol. XXIV. Parts VII. VIII. -The Royal Irish Academy.

Proceedings of the Royal Irish Academy, Vol. IX. Part IV.—THE ROYAL IRISH ACADEMY.

Proceedings of the Royal Geographical Society, Vol. XI. No. 1.— The Royal Geographical Society.

Memoirs of the Geological Survey of India, Palseontologia Indica Vol. V. Parts I-4.—The Government of India,

Jahrbücher der K. K. Geologischen Reichsanstalt. Band XV. 1865, No. Janner, Febr. Merz:—The K. K. Reichsanstalt.

Alt-arabische Gedichte über die Volkssage von Jemen, als Textbelege zur Abhandlung ⁴¹ Ueber die süd-arabische Sage, ¹¹ by A. von Kremer,— The Author, The History of India by the Homble M. Elphinstone, translated into Urdu, No. 9.—The Scientific Society of Alliques.

Bulletin de la Société de Géographie, Mars, 1867.—The Society.

Abhandlungen der Königlichen Academie der Wissenschaften zu Berlin, 1865.—Königt. Paruss, Akademie der Wissenschaften.

Proceedings of the Royal Society of London, Vol. XV. Nos. 90, 91.—The Royal Society.

Journal Asiatique; VI. Series, No. 32.—The Socie'te' Asiatique, Selections from the records of the Bombay Government, No. CII. New Series,—The Government of Bombay.

Palmontologia Indica, V. 1-4. The Gasteropoda of the Cretacecus Rocks of S. India, by Dr. F. Stoliczka,—The Government of Bengal.

Cours d'Hindustani à l'Ecole Impériale et spéciale des langues orientales vivantes près la Bibliothèque Impériale. Discours d'Ouverture du 3e Décembre, 1866.—The Author.

The Fishes of Zanzebar.—By Lieutenant-Colonel R. Lambret Playfair and A. C. L. G. Gunther:—The Government of Bonday.

Annual Report of the Geological Survey of India and of the Museum of Geology, Calcutta, 1866-67.—The Superintendent of the Geotogical Survey of India.

Proceedings of the Society for the Diffusion of Useful Knowledge in the Panjáb, Nos. XI to XV.—The Society.

The Pundit, Vol. L.-THE EDITOR.

Professional papers on Indian Engineering, Vol. IV. No. 15.—THE EDITOR.

Journal of the Agricultural and Horticultural Society of India, Vol. XIV. Part IV.—The Society.

The Journal of the Statistical Society of London, March, 1867.—
THE SOCIETY.



Prospectus

Dis Publisher of Business A Blanches of

THE LIFE OF GAUDAMA.

(NEVINER EDITION)

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ASTATIC SOCIETY OF BENGAL:

STREET, ST.

THE GENERAL SECRETARY.

No. VII .- JULY, 1867.



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PROPERTY AND RESIDENCE, AND PERSONS ASSESSED.





PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

For July, 1867.

The Monthly General Meeting of the Asiatic Society was held on Wednesday the 3rd July, at 9 p. M.

Dr. J. Fayrer, President, in the chair.

The Proceedings of the last meeting were read and confirmed.

Presentations were announced-

 From L. Jackson, Esq., a specimen of texture woven by insects, found near Gowas, in Zillah Moorshedabad.

 From Dr. Hildebrand of Honolulu, through Dr. J. Anderson, a copy of the Grammar of the Hawaiian Language by L. Andrews, and a copy of a Dictionary of the Hawaiian Language by L. Andrews.

3. From Sir D. Maclood a photograph of a Zungámi,

The following gentlemen, duly proposed at the last meeting, were balloted and elected as ordinary members.

Dr. C. Mamamara.

N. A. Belletty, Esq.

Dr. J. J. Wood.

C. A. Hacket, Esq.

The following were cambidates for ballot at the August meeting:— C. F. Amery, Esq. Superintendent Arboriculture, Labore, proposed by P. H. Egerton, Esq., seconded by Dr. J. L. Stewart.

Theodore H. Hughes, Esq., F. G. S., proposed by Mr. Mallett, seconded by Mr. Ormsby.

W. L. Granville, Esq., Civil Architect, proposed by Dr. J. Anderson, seconded by Mr. M. H. Ormsby. R. H. Curran, Esq., L. R. C. S. I. and L. K. & Q. C. P. I. Indian Medical Staff, proposed by Mr. V. Ball, seconded by Mr. M. H. Ormsby.

F. Wilcox, Esq., Bengal Police, Purulia, proposed by Mr. V. Westmacott, seconded by Dr. J. Anderson.

A. Oldham, Esq., C. E., E. B. Railway, proposed by J. M. Scott, Esq., C. E., seconded by J. P. Collis, Esq., M. D.

The receipt of the following communications was announced.

- From Lieutenant A. Pullan, —Remarks on some ancient rains in the Gurhowl Blatur.
 - 5. From C. Horne, Esq., -Notes on Mynpuri Villages, Asowle.
- From W. T. Blanford, Esq., A. R. S. M., F. G. S.,—Zoological Notes.

At the request of the President, the following paper was read by the Author.

On the Jungle products used as articles of food by the inhabitants of the districts of Manhhoom and Hazaribagh (Chota-Nagpore.)—By V. Ball, Esq. B. A., Geological Survey of India.

In introduction, Mr. Ball said.—" Last year I read before the Society a short paper which was written from such material as I happened to have by me. It was intended merely to convey an idea of the means of support on which large numbers of the natives had to rely during the famine; the subject being one of particular interest at that time. During the past working season I have made systematic enquiries, and am now enabled to lay before the Society an approximately complete list of all the Jungle products used as articles of food."

The products are divided, in the list appended to the paper, under six headings, viz. fruits and seeds, flowers, leaves, stems, roots and fungi. These headings embrace upwards of 70 distinct species of plants, all of which yield more or less untritious food. In most cases the Bengali and Hindustani names are given in addition to the Latin synonyms.

A full account of the particular uses, manner of preparation and value of the more important products formed the principal subject of the paper. According to the Author the various species are by no means of equal value. While some furnish, so to speak, staple articles of food, others can only be regarded as edible, and in a few cases are even injurious, if eaten in targe quantities.

The paper was illustrated by a collection of dried specimens which

was inspected by the members.

The author, in answer to a question from the President as to whether he had understood him to say that a number of the people lived for a portion of every year on these products, replied that some of the aboriginal tribes, such as the Sonthals and Coles, as well as the poorer classes of Hindoos, depend solely upon the jungle to furnish them with the means of subsistence for from two to three months of every year.

Several members asked questions in reference to the Mhowa and

other plants, specimens of which were exhibited.

The Secretary then read Mr. Amery's paper on the origin of races, of which the following is an abstract.

Mr. Amery, in the earlier portion of his paper, enters at some length into the known facts of the distribution of animals and plants over the surface of the world in distant provinces, the relation of these provinces to climate, the representation of species in similar climate, the influence which altitude in ascending mountains has upon the fauna and flora, and the resemblance of the results to those observed upon the earth's surface in passing from the equator to the poles. It is also shown that distinct forms occur in widely separated countries, of which the climate is similar, as in tropical Asia and tropical America, and that this is not due to the unfitness of each region for the support of foreign forms of life, since, in many cases, they thrive if introduced. In other instances, the same forms are found existing in widely separated regions, as in the case of the floras of Northern Europe, and that of the Western (?) slopes of the Himalayas. Hence it is inferred that meither soil, climate nor any existing conditions have influenced the distribution of the fauna and flora of the globe.

Some illustrations of the replacement of animals by distinct forms in other regions are then given. The author considers that there is a relation between the animals and plants, also between them and man of each region. Mankind, he considers as constituting a genus, comprising several well marked species, some of the peculiar characters

of which are illustrated in the physical and mental characters of the Australian, American-Indian, Negro, Mongol and Caucasian.

The aboriginal Australian has never learned to work in metals nor to till the land, nor does he learn in contact with the European. He is a hunter by nature, but his highest weapon is stone or bone tipped. He has not advanced to the fabrication of the bow and arrow. Had he come in contact with large carnivorous animals, the race would have been annihilated.

The Red man of America is a slight advance on him; he uses the bow and arrow, tills the soil, and makes himself formidable to such animals as he comes in contact with. The African is a further advance. Mongolian takes us over a vast moral and intellectual gulf. And lastly comes the Caucasian, the highest existant type, mentally and physically. The Author considers that every argument which has been advanced in support of the unity of the race will be found, if tested critically-a vain effort to reconcile facts with a preconceived theory. The colour of each race is shewn to be quite independent of climate to which it has been attributed; the black Negro, red Indian and yellow Mongol maintaining closely the same complexion in tropical and temperate and even in some cases in Arctic climates; while other physical peculiarities, such as the thick lips of the Negro and the facial peculiarities of the Mongol, are shewn to be equally persistent. The mental faculties of different races are equally marked and appear to have always been so. The child of a Yorkshire peasant can by education be made the equal of the most learned in the land, while the child of an Australian is only capable of learning up to a certain point, The writer of the book of Job, the oldest Caucasian record, was the equal in mental calibre of the great men of the present day. Hence, barbarian tribes belonging to a civilized race like the Caucasians, are capable of civilization, while races like the red Indian and the Tasmanian are not.

The geological record shows that in past times, changes in the relative position of land and sea took place, and that the fauna and flora of each region have been entirely changed several times. The author considers that "each distinct region of the dry land of the globe belongs to a distinct geologic era, that its fauna and flora represent the prevailing types of that era over all the land then above water.

and that remnants of every creation or nearly every creation, from the Permian era down, are left to shew what the earth was." New Zealand and Norfolk Island are especially cited as being a surviving remnant of the carboniferous epoch, or of a time immediately succeeding it. This is shewn by their monocotyledonous plants, palms, eyeadere, and tree ferms, by the absence of quadrupeds, by the birds, the highest representatives of animal life, and by the fish in no way differing from the fossil representatives of the carboniferous age.

Australia appears to be the next oldest region; it has a fauna and flora distinct from that of New Zealand, and representatives of them are found in the European tertiary rocks. It contains no rocks of secondary age. The author considers that the causes of the differences from the fauna and flora of New Zealand are not explicable by the Darwinian theory, but that they must have been a new creation, which is now dying out before the animals and plants introduced by the white man. A similar distinction may be traced in America, Africa, the Malay land and Mougolia. Lastly comes the country of the Caucasian, resting upon the nameualitic rocks. Its upheaval wasted the previously divided Malay land, Africa and Mongolia, but it contains a fauna and flora distinct from those countries. The author states that the place of the nummulitic formation is not precisely determined, but that he is inclined to consider it a coast formation, contemporaneous with the chalk, a deep sea deposit.

The several types of man each occupy an area, corresponding to the different geological and botanical provinces, and the author thinks it improbable that he is not part of the same original creation. He points out, as a remarkable coincidence, that the race peopling every geologically newer region, is higher in the scale than the race of the next older region. The New Zealander is an exception, as the country appears to have been peopled by a Malay colony.

Mr. Ormsby said that he thought most of the facts brought forward by Mr. Amery had been known for a very considerable time. The idea of the organic remains in certain geologic formations in one part of the world being represented by the living flora and fauna of another is by no means new. Professor Owen, in his "Paleontology," (Ed. 1860, p. 307) compares the English collite with Australia of the present day. He concludes his arguments by saying that the

animals and plants which now flourish in the Australian continent appear to complete a picture of the ancient condition of the earth's surface, which has been superseded in one hemisphere by other strata and a higher type of mammalian organization. Mr. Amery states as an evidence of the low condition of the aboriginal Australian that "his highest instruments are stone or bone tipped," and from this fact, in connection with others, appears to come to the conclusion, that the Australian man is an unimal inferior to the Caucasian. Further, our anthor " would as readily believe in the Lamarkian or Darwinian theory of progressive development as in the descent of the Germanic and Australian races from one pair of parents," So far as this conclusion is derived from any arguments based upon the fact of the Australian savage using stone and bone tipped weapons, it is clearly untenable. Flint implements are found in abundance all over the surface of the globe, resembling in many respects those now used in Australia. This fact evidently does not prove that our ancestors who used these primitive instruments belonged to a lower species of men than we ourselves do. Mr. Amery surely can never have intended such a conclusion to be drawn from his interesting paper.

Dr. Colles said-" I do not think that any argument in favour of the former existence in Europe or elsewhere of a race similar to the modern Australians can be derived from the similarity between the flint weapons dug up in Europe and those used by the Australians at this day. In Argos and Etruria, in the earliest Irish churches, and in the ancient American buildings, we find precisely the same architectural style used, because in all these cases buildings were erected by men who found large stones ready to their hand, and had no occasion to make use of the arch-yet none but the wildest enthusiasts assert that the Peruvians and the Pelasgi are one race. Similarly, mankind in any country would be at first obliged to make their cutting instruments of stone, and, working with that material, would in every place turn out weapons much resembling each other. So men of the most different race have all, at one time or other of their history, been obliged to produce fire by rubbing sticks together, or to use the law in hunting or warfare, for want of better expedients. The fact that bows are now used by the red men of America, and were used in England four hundred years ago, is no proof that England was inhabited by red men in the 15th century."

Mr. Waldie remarked that Dr. Colles's argument scarcely seemed complete. Mr. Amery would probably say that the higher types of man could make opportunities and create circumstances; the lower could advance only a certain length, he could carry improvements no further.

Mr. Justice Phear observed that the writer of the paper, would have greatly strengthened his illustration of the "Yorkshire Boy," if he had pointed to a living example of one in the position which he described, and could have shown that it justified his remark. So long as the instance adduced remained purely a matter of speculation, Mr. Phear was disposed very greatly to doubt, whether the boy, whose ancestors had in a continuous chain from the days of Cannte to the present time invariably been peasants, and unable without exception to raise themselves out of the lowest social grade, would exhibit the comparatively superior intellectual capacity which Mr. Amery expected of him. And with reference to the colour of the skin used as an argument for diversity of origin, although it might be conceded that it is not a function of latitude or temperature, and not referable to exposure as a cause, still this did not leave it to be treated as unqualified evidence, without any reference whatever to its association. with language. The fact that the darkest races of Asia and the fairest of Europe, exhibit a common bond of union in their language, introduces a difficulty in the way of solving Mr. Amery's problem, which that gentleman seems to have passed by unheeded. The paper everywhere appeared to disclose traces of hasty composition, and it would probably not be incorrect to conclude that it was written without opportunity for thoughtful reflection. It would hardly be fair to the author that it should be published in its present form.

Mr. Blanford said that Mr. Amery's paper had probably been written under the disadvantage of a want of any books of reference, even the most elementary. It was only possible in this way to account for the numerous errors it contained in matters of fact, such as the assertion that cervine animals abounded in Africa, or that the age of the nummulities was unknown. The principal theory insisted upon, that of the affinity between the fanna and flora of certain geological periods, and those of existing geographical provinces was not new, and it was easy to shew that it was merely apparent. The speaker proceeded to examine the case of New Zealand especially quoted by Mr. Amery. The only similarity between the carboniferous flora and

that of New Zealand is not, as asserted in the paper, the presence of monocotyledonous plants or eyeads, the first of which are very rare and the latter barely represented in the coal flora, but in the very large percentage of ferms and conifers in each case; and this is merely a case of external resemblance, for the ferns and conifers are not the same, and those of New Zealand are no more closely allied to the genera and species of the coal than the conifers and ferns of other countries are. Turning from the flora to the fauna, the resemblance vanishes. It is not the fact, as stated by Mr. Amery, that no quadrupeds were found in New Zealand at the time of its discovery. A rat was met with, and if, by quadrupeds, mammalia were implied, it should not be forgotten that bats, including forms peculiar to New Zealand, are common, and that cetacea occur around the coast. The gigantic birds are as completely unrepresented in the carboniferous epoch as are the mammals, and the fish and mollusea inhabiting New Zealand at the present day are closely allied to those inhabiting other parts of the globe, and have no connexion with those found in carboniferous rocks : while the reptiles, fish and mollusca of the carboniferous spech are in many instances, the two first especially, better represented in other parts of the world at the present day than in New Zealand. As regards man, Mr. Amery's idea of the Malay origin of the New Zealander would probably be a novelty to the members of the Society who had studied Ethnology. Indeed the whole of Mr. Amery's argument was based upon imperiect data. At the same time Mr. Blanford was quite willing to admit that the different races of mankind differed quite as much from each other as races of lower animals which have been universally considered distinct species, and that the idea of mankind being a genus comprising several different species was perfectly tenable, but he thought no evidence whatever had been brought forward to shew any connexion between these races and goographical or geological provinces. Some races of men, as the Mongolians, inhabited two or more regions, each possessing a distinct fauna and flora. In conclusion, Mr. Blanford believed that Mr. Darwin, in the chapters on geographic distribution in the "Origin of Species," had satisfactorily explained most of the phonomena alluded to in Mr. Amory's paper, despite Mr. Amery's somewhat contemptuous allusion to the "Darwinian theory."

Mr. Blanford then read a few extracts from his paper;—"Zoological Notes,"

LIBRARY.

The following additions were made to the Library since the Meeting held in June last:—

Presentations.

Selections from the Records of the Madras Government.—The Government of Madras.

Bulletin de la Société de Géographie,—The Paris Geographical Society.

Schriften der Naturforschenden Gesellschaft in Danzig; Neue Folge.

Band I. Heit II. Beobachtungen der Magnetischen Declination in

Danzig und Bemerkungen dazu; by E. Kayser.—Naturforschende

Gesellschaft in Danzie.

Report on the Land Revenue Administration of the Lower Provinces for 1865-66.—The Government of Bengal.

The Annals of Indian Administrations, Vol. X pt. IV.—The Government of Bengal.

Natuurkundig Tijdschrift voor Nederlandsch Indie, uitgegeven door de Koninklijke Natuurkundige vereeniging in Nederlandsch Indie. Deel XXIX Afi. 2-4, 5-6.—The Batavian Societt.

The Journal of the Bombay Branch of the Royal Asiatic Society, Vol. VIII. No. XIII. for 1863-64-65.—The Society.

The Journal of the Chemical Society, Oct., November, and December, 1866, January, February and March, 1867,—The Society.

Ten copies of a Review of "An Introduction to Kachchayana's Grammar of Pali Language, by J. D. Alwis Colon, 1863," by Professor A. Weber,—The Editor.

Actes de la Société d'Ethnographie, Tome I. Liv. 8.—The Society.

The Report of the British Association for the advancement of Science, Birmingham, 1865.—The British Association.

Architecture at Beiapoor .- THE GOVERNMENT OF INDIA.

Architecture at Dharwar .- THE GOVERNMENT OF INDIA:

Architecture at Ahmedanagar, - The Government of India.

Report of the Committee of the Bengal Chamber of Commerce, from 1st November, 1866, to 30th April, 1867.—The Bengal Chamber of Commerce.

Magnetical and Meteorological Observations made at the Government Observatory, Bombay in 1864,—The Government of Bombay.

Lecture on Military Gossip, by Captain T. C. Anderson.—The Author.

The Quarterly Journal of the Geological Society, No. 90, May, 1867.—The Geological Society of London.

Proceedings of the Royal Society of London, No. 92.—The ROYAL Society.

Natuurkundige Verhandelingen van de Hollandsche Mastschappij der Weteschappen te Haarlem; on the Peculiar Crania of the Inhabitanta of certain Groups of Islands in the Western Pacific, by Dr. J. B. Davis.—The Aurnog.

Purchases.

Revue des Deux Mondes, 1st and 15th April, 1st May, 1867.

Revue et Magasin de Zoologie, No. 3, 4, 1867.

The Annals and Magazine of Natural History, Vol. 19, No. 113.

The Edinburgh Review, No. 256.

Journal des Savants, February, April, 1867.

Comptes Rendus, Tome LXIV Nes. 13, 14, 15, 16, 17.

Reise der Oesterreichischen Fregatte Novara um die Erde in den Jahren, 1857, 1858, 1859, unter den Befehlen des Commodore B. von Wüllerstorf-Urbair; Linguistischer Theil, by Dr. F. Müller.

Ditto, Zoologischer Theil, Band I, Fische, Dritte Abtheilung, by Dr. R. Kner.

Reptilien, by Dr. F. Steindachner.

Conchologia Iconica, by L. Reeve, pts. 262 and 263.

Gould's Birds of Asia, pt. XIX.

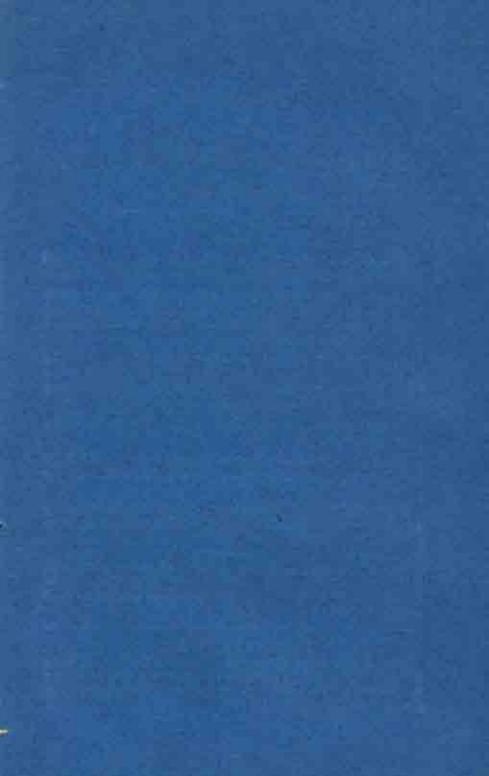
The Ibis, Vol. III No. 10 (new series).

The Numismatic Chronicle and Journal of the Numismatic Society, pt. I., 1867.

Wolf's Zoological Sketches, 2nd series, parts, XI and XII.

Exchange,

The Atheneum, April, 1867.



Prospectus

THE PURCHISH BY LESSENSIES A SHARWARD OF

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NOTICE TO MEMBERS

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PROCEEDINGS.

ASIATIC SOCIETY OF BENGALE

THE GENERAL SECRETARY

No. VIII -AUGUST, 1807.



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PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

Fon August, 1867.

The Monthly General Meeting of the Asiatic Society of Bengal was held on Wednesday the 7th August, at 9 F. M.

Dr. J. Fayrer, President, in the chair.

The minutes of the last meeting were read and confirmed.

Presentations were announced-

 From Lieutenant-Colonel B. Ford: Imperfect skeletons of an adult and of a festal Dugoug.

2. From Bábn Shih Chunder Shome : a copy of History of Orlssa

in Bengali.

 From Colonel H. L. Thuillier: six copies of Major Tennant's paper on the Eclipse of August, 1868.

Three copies of Professor Airy's Notes on the Eclipse of August,

1868.

From Monsieur Le Chevalier Cristoforo di Negri, through Dr. C. F.
Tonnerre, a copy of La Storia Politica Dell' Antichita paragonata
alla moderna, 3 Vols.

 From the Government of Bengal, four copies of extracts from the Proceedings of the Bombay Government.

Letters were read-

- From the Government of Bengal in the Public Works Department, enclosing a copy of a report on an Earthquake felt in Sylhet at I.P. M. on the 2nd of February, 1867.
- From the Secretary to the Government of the North Western Provinces forwarding a copy of a report on the tribes of Jhansie or Scherias of Lullectpore.

The following gentlemen, proposed and duly seconded at the last meeting, were balloted for and elected as ordinary members.

C. F. Amery, Esq.

T. H. Hughes, Esq., A. R. S. M., F. G. S.

W. L. Granville, Esq.

B. H. Curran, Esq.

F. Wilcox, Esq.

A. Oldliam, Esq., C. E.

The following gentlemen are candidates for ballot at the Soptember meeting.

- The Rev. W. Fyfe, Superintendent of the Free Church Institution, Calcutta, proposed by Mr. W. S. Atkinson, seconded by Mr. M. H. Ormsby.
- Captain V. Gauvain, Messageries Impériales, steamship Meinam, proposed by Mr. Grote, seconded by Colonel C. S. Guthrie.
- A. J. Hughes, Esq. C. E., proposed by Mr. J. M. Scott, seconded by Mr. M. H. Ormsby.
- Lieutenant Butler, Assistant Commissioner, Gowhatty, Assam, proposed by Mr. Locke, seconded by Mr. W. T. Blanford.
- M. Place, Consul General of France, proposed by Mr. A. Grote, seconded by Mr. M. H. Ormsby.
- Dr. A. C. Macme, whose retirement was announced in May, 1866, owing to a mistake, was reinstated in the list of members, from May last, the date of his arrival from England.

The following gentlemen have intimated their desire to withdraw from the Society.

Lieutenant W. Ramsden.

Captain M. Lloyd.

Lieutenant-Colonel H. Ballard, C. B.

The receipt of the following communications was announced-

- 3. From Lieutenant W. J. Williamson: " A Garrow Vocabulary."
- From F. S. Growse, Esq., M. A. Oxon. B. C. S., "A translation into Latin Elegines of a Hindu Poem in the Sabha Vilása."

The President then announced that Bábu Jádava Krishna Singha, a member of the Philological Committee, died of apoplexy on the 23rd of July, at the early age of 35 years.

He joined the Society in 1851, and was soon after elected a mem-

ber of the Council, and was for more than three years a Vice-President.

He was an amiable man of retired habits. He was a good Sanskrit scholar, and his loss is much to be lamented by the members of the Society.

The Secretary then read a paper on the Ethnology of India, by J. B. Davis, Esq. M. D., of which the following is an abstract.

Our author begins his paper by saying that the Ethnology of India is no new subject, but is of great interest, and is at the present time attracting considerable attention. The study of it may be said to date from the earliest selvent of western science to the shores of the Ganges; and it is considered to have made great progress, for, upon the foundation then laid, a comprehensive hypothesis has been built, and is now all but universally received, which is almost as vast as the old world, and probably embraces nearly as many races of man as the ancients were acquainted with.

Sir William Jones, in his third discourse, said: "The Sanscrit language, whatever be its antiquity, is of a wonderful structure; more perfect than the Greek, more copious than the Latin, and more exquisitely refined than either; yet bearing to both of them a stronger affinity both in the roots of verbs and in the forms of grammar, than could possibly have been produced by accident; so strong indeed, that no philologer could examine all three, without believing them to have sprung from some common source, which, perhaps, no longer exists."—Ariana Antiqua, p. 122 &c.

Our author thinks it difficult to conceive of the argument respecting the Arian hypothesis as other than a suppositional and unstable foundation for the Indo-European hypothesis, the affinity of words being the strongest and surest material that enters into the composition. A competent philological authority has already said respecting one great branch of it:—" If the current views concerning what is called the eastern origin of the so-called Indo-Europeans are correct, they are so by accident; for they rest upon an amount of assumption far greater than that which the nature of the question either requires or allows."—Dr. R. G. Latham. Prickard's eastern origin of the Celtic Nations, Preface, p. vii.

However, assuming this foundation to be substantially true, an immense amount of learning has been expended in investigating

the different subjects of comparative philology, in order to show the descent of a great number of words of various languages from a Sanscritic source-from which it is inferred that the very varied races of people who spoke or still speak them are all of Arian origin. So that at length, the Indo-European hypothesis embraces as of one family the races of Europe and of India, i. e. the Brahmans, Kahatriyas and Vaisyas, with many intervening links. With recipients of this hypothesis all contradictory facts are at once allenced by the very position we have already quoted from Sir William Jones, that the languages "cannot be examined without believing them to have sprung from some common source." The conclusion alluded to is arrived at by transposing the argument from the subject of language to human races; if the languages had a common source, the people who have spoken, or who now speak them, are all intimately allied. The fact of the connection of or affinity in the languages is to a certain extent undeniable, but probably it admits of a rational and consistent explanation very different from the received one.

We do not venture to go into the question of the truth of so universally admitted a hypothesis as that of the Indo-European, for we are fully aware that great numbers of able and learned men in India are engaged in working out its details, and are daily discovering what are considered firm proofs of its validity. We shall limit ourselves to the suggestion, whether we can look with so much confidence upon the truth of this grand hypothesis, if there be good reason to conclude that the human race, instead of having had its cradle in Armenia, in any portion of Central Asia or elsewhere, and being left to its own inadequate struggles to diffuse itself all over the habitable globe, is, in the main, an aggregate of families formed by the hand of the Creator, in every different locality in which it is found, and each constituted by that wise Providence for the climate and productions with which it is surrounded.

A very distinguished physiologist, the favourite disciple of Blumenbach, Professor K. A. Rudolphi, long since pointed out that "a single human pair was certainly not fitted to people the whole earth. A wild animal or a disease equally might have defeated the object. This is not the way in which nature goes to work. In so important an affair as the peopling of the earth by men, she could not possibly have risked all to so hazardous a chance."—Beytrage zur Anthropologie S. 147.

And the celebrated zoologist, Professor Louis Agassiz, has said: "We maintained, that, like all other organized beings, mankind cannot have originated in single individuals, but must have been created in that numeric harmony which is characteristic of each species; men must have originated in nations, as the bees have originated in swarms, and as the different social plants have at first covered the extensive tracts over which they naturally spread."—The Diversity of origin of the Human Races, p. 128.

Our author then proceeds to quote Sir Samuel Baker's paper on the ruces of the Nile basin. Trans. Ethnological Soc. V. p. 237.

He gives a detailed account of the low mental and moral state of the inhabitants of the district, and concludes by enquiring whether we can venture to date from one common origin, and claim this degraded creature as " a mon and a brother."

The question of colour next occupies our attention. Although the languages of the Indian and European races may be traceable to a Sauscrit source, yet one great race is black of various shades, and the other white of different shades, and they differ to an equal extent in their capabilities of intellectual development. To this it has been boldly replied that " no physiologist will insist upon difference of colour as an argument against the common origin of the European and Asiatic races." In proof of this, many instances of fair and handsome families of Asiatics are cited. Reference is then made to the Scriptural testimony enunciated in the words, " Can the Ethiopian change his skin or the leopard his spots?" In support of this view, our anthor mentions the facts that the descendants of the Dutch colonists in South Africa are as fair as over, while the descendants of the negroes who settled 80 years ago in Nova Scotia are still the same negroes that they were at first; unfortunately with all the same intellectual and moral defects.

Our author then proceeds to state it to be his opinion that eraniology affords a much more firm basis for ethnology than philology possibly can. If Europeans and Hindoos be of the same family, why cannot the former migrate to and live in India? How is it that the people of India are celebrated for the smallness of their heads,

while the inhabitants of Europe have large heads? The magnitude of the brain among Europeans is too well known to need any proof. How are these facts to be reconciled, if both these people are the direct descendants of one and the same remote ancestry? They could only be reconciled by unwarrantable suppositions which are contrary to knowledge; for, in truth, they are totally irreconcilable. Since the days of Campen and Blumenbach, the craniology of the human race has taken the first position in anthropology, man being preeminent among all other animals in the preponderant development of his cerebral system which gives him his place in nature, and is the centre of all his peculiarities; it is, therefore, the best interpreter of those essential differences that reign between the several races of men. The collection of the materials for the study of the craniology of India may be said to have yet to be commenced, although great numbers of educated men have abundant opportunities for such collection. In all other regions of the globe, craniology has been made the proper basis for anthropological researches. An able writer in the "Calcutta Review" for June 1856, pointed out that this great branch of the subject is still open for inquiry, and said that " a circle of Medical officers, say at Ootacamund, Ahmedabad (in Guzerat), Cuttack, Manbhoom, Beerbhoom, Hazareebagh, Bhagnipore, Darjeeling, Nipal, Mymensing, Assam, Sylhet, Cachar, Tipperah and Chittagong, acting in concert, might unravel the inquiry of the skulls in a twelvementh." It is to be hoped that the circular printed in the last number of the "Annals," No. XXI p. 394, will excite attention to this most important matter, and that the reproach will not much longer remain, of an entire want of craniological material for the anthropology of India. The author has already offered aid in carrying out such a project, and hopes that it will be eminently successful,

It is trusted that the cultivators of Indian philology will hail with satisfaction the conjunction of the efforts of those who pursue physical researches with their own, as there is much diversity of opinion upon some primary points of their inquiry which may be dissipated by the latter. It is hitherto an unsettled question whether the Tamulian tribes of Peninsular India ought to be regarded as aboriginal; some of the most learned and most diligent investigators consider them as such, and ally them closely with the Scythic or

Turanian tribes of the north. It is not at all too much to say that this question, with a number of others, may be satisfactorily illustrated by an adequate examination of their craniology, whenever the means for such shall be procured. Whether this hope may be realized is after all doubtful, when we look to another line of philological inquiry. It is an admitted fact among philologers that the division of mankind designated by them "Syro-Arabian" is physically identical with the Aryan section; still the two cannot be allied, because the languages of the two families unterly sunder them. This proves the false position that has come to be assigned to philological affinities and diversities; they are erroneously assumed to be of higher import than sameness or discrepancy of organization. So that if Indian Ethnologists are not prepared to allow the position here assumed for craniological researches, still it must be admitted that, regarding them merely as auxiliary to those based upon languages, they are of the utmost value and utility.

Mr. W. Blanford said :-

It appears to me that Mr. Davis falls into precisely the error against which he inveighs. He objects to the affinities of the European and Hindu races being decided by the question of language alone, yet he attempts to decide it by the size of their skulls. At least one half of the errors which exist in natural history classifications, are due to the vicious system, a system which cannot be too strongly reprehended, of depending upon some one peculiarity or some one organ alone, without regard to others. I believe questions of race are not to be decided by crania alone, and if so decided, the decisions will, I believe, be of but small value.

Mr. Davies does not appear to me either to have answered the strong arguments which exist in favour of the unity of races, nor to have brought forward any but old and well-worn arguments on the other side. Some of the latter I am surprised to listen to. The fact that negroes have bred truly for 80 years in Nova Scotia, simply shows that three generations of children may resemble their parents. On the other hand, the assertion that no change ever takes place in the intellectual faculties of a race, appears opposed to the history of some of the races now inhabiting Western Europe, which 3000 years ago were savages, little, if at all superior to the tribes of Central Africa at the present day.

Dr. J. Anderson said, leaving out of consideration the opinions which Dr. Davis hall expressed on the much disputed theory of the origin of the so-called Arian races of India, he believed, that the chief object of the paper, now before the Society, was to direct the attention of Ethnologists in India to the importance of physical characters as a means of determining the affinities of race. Dr. Davis, from the whole tenor of his communication, is apparently impressed with the idea that, in India, philology has been studied to the exclusion nearly of the physical aspect of the enquiry, and the aim of his paper evidently is, to try and excite in the minds of Indian philologists an interest in the physical facts of ethnology. To this extent I agree with Dr. Davis, as there cannot be a doubt that physical ethnology has been much neglected in this country. Under the circumstances, I think we are indebted to Dr. Davis for calling our attention to the subject, and I have therefore much pleasure in proposing that we should award him a vote of thanks.

With regard to the facts which Dr. Davis has adduced in support of the importance of physical ethnology, and the stress which he seemingly places on the mere capacity of the cranium as a rare character, I think that many more telling facts might have been selected, and that Dr. Davis, in placing the capacity of the cranium so prominently forward, to the exclusion of any mention of its general form and relative proportions, has much understated the question at issue,—the comparative importance of philology and craniology in Ethnological enquiries.

What physical ethnology aims at, in making the cranium the subject of its enquiries, is to attain, by the accurate measurements of a large series of the crania of a race, an accurate conception of the general form and relative proportions and capacity of the skull, and having satisfactorily determined these points in a number of races, to proceed to classify them according to the similarities of their crania. However, I am a certain Dr. Davis is quite as impressed with the importance of researches of this kind as we are, and I only regret that he did not state the question more strongly. I have much pleasure in proposing the vote of thanks.

Dr. Partridge seconded the proposition.

The Secretary then read the following paper.

Notes in reference to the question of the origin of the Aboriginal tribes of India.—By Emil Schlagintweit, corresponding member to the Asiatic Society of Bengal, &c.

The Hon'ble G. Campbell, in his so highly valuable motion respecting the aboriginal tribes of India, argues the fact that, though some resemblance is existing between the languages of the broken aboriginal tribes of India and the Tibetan* races, yet both groups are widely differing from each other in bodily appearance. It cannot be denied, that there exist many an expression in the aboriginal languages as well as in the Dravidian group which are very akin to Tibetan ; more important it would be to be able to point out some striking analogies in the grammatical structure; for such comparisons, however, the measures recommended by Hon'ble G. Campbell, must supply us with the necessary materials in future. Greater analogies still can be pointed out between Tibetan and the languages of some of the tribes of the Indo-Chinese Peninsula; also here, however, the difference in the general aspect rather seems to intimate, that from mutual contact clements, finally foreign, have crept into languages, the bearers of which stand but in a very loose ethnological connection with the race from whom they have borrowed. When looking out for similarities in manners, we find the Kakhyen tribe of northern Berma wearing the sword in the same strange way, by means of a wooden ring to which the sheath is fastened with ropes, as it is the custom amongst the Lingphos in Assam. The Kakhyens, moreover, have hereditary chiefs, and the high dignity of a ruler may even be held by a child, should it happen the government devolves upon him in time of in-

^{*} I have adopted the spelling of "Tibetan" instead of "Thibetan" in conformity with Csoma Korasi, Foacanz, Hodgson, Jässehke, Schierner, Schmidt, &c. The word Tibet has resulted from the combination of the two Tibetan words This and Phod both meaning "to be able?" A king of the Tth contary is said to have at the first made use of this name, at present, lowever Bhodqul, "territory of the Bhod," is the only name given by the inhabitants to the country. For further names see my "Kings of Tibet," Munich, Royal Bavarian Academy Index, e. c.

⁺ This becomes evident by the interesting papers of Capt. T. R. Logan, "Ethnology of the Indian Pacific Islania," Journal of the Indian Archipetago, 1857, where numerous vecaledaries are to be found; the coincidence is most remarkable in many instances; and Capt. Legan by the detailed analysis of these rust materials has to a great degree contributed to a better valuation of the variations. See also Schiefner Tiletteche Studies, Mélangez Asiatiques, vol I; St. Petersburg, 1851, and my "Kings of Tibet," p. 6,

fancy; this practice reminds us of the system of incarnate priests in Tibet, where the seat of the Dalai Lama is taken, as a rule, by a mere child. It must be remarked, however, that the Tibetans distinguish the Kakhyens as a peculiar race, differing in language from that of the Shans and Bermese,*

But as regards definite conclusion, the comparison of the bodily appearance was duly pointed out as being of special importance. For the races in consideration here, this is the more unavoidable, since the linguistic affinity can be reduced in some degree to the influence of intermixture. Tibetans may have settled, by way of victory, in parts of the Indo-Chinese Peninsula. But either they were few in number, or their reign was of short duration, as they have not left traces in the bodily proportions of these tribes.

In reference to general physical appearance, I wish to draw the attention to some striking differences shown by the face of a Tibetan when compared with an aboriginal of India; these differences have become evident to me by the analysis of the casts; taken from living individuals by my brothers during their travels. If we take a Tibetan, Nos. 197-228 of the Catalogue, or a Gorkha of Nepal, as e. g. No. 25, and look at his profile, we find as a rule that the depression of the nose is so great that the curve of the eye is more prominent than the saddle, the upper beginning of the nose. Amongst the aboriginal tribes of Central India, such as the Gonds and Bhils, this depression is not met with, though the orbits are very prominent; the lower end of the nose is very flat and broad (see Nos. 117-182 of the Catalogue). In this respect the aborigines are not very greatly distinguished from the Aryan race, w hich the eyes always lower than the nose-line, but there is another peculiarity which I consider very typical for the race of the aborigines. Take a cast of an aboriginal, e. g. No. 183 (Gond), No. 139 (Bhil), No. 138 (Kol), and unite by lines ;-

^{*} See Dr. Williams's papers on the question of British trade with China will Burma, in the Asiatic Society's Journal, 1864.

+ Such is the opinion of Logan; I must, however, add that in my studies of Tibetan historical books I have not found my written record relating to

[‡] A complete set of these casts, comprising 275 heads, 30 hands and 7 feet, has been put up also in your rich Museum by the liberality of the Government.

The orbits at their most prominent part. Lat.

The outer corners of the eyes. 2nd.

3d. The wings of the nose.

The corners of the month.

These lines will be found far from being parallel; the angles are In some cases even very sharp. I suppose that the ugliness of these races is particularly due to the great deviation of these lines from parallelism; for with the Brahmans, e. g. No. 1, and the Europeans in general, we find a regularity very great, just for these lines. Also the face of a Tibetan is far from being as irregular as that of an aboriginal, but one is greatly reminded of an aboriginal, if the same experiment is made with the facial cast of a Negro, e. g. No. 173.*

I here limit myself to these few remarks which I shall be happy to see carried on to a larger scale, in the volume on the Ethnography of India, which forms part 8th of the " Results of a scientific mission to India and High Asia." Outlines of the entire series of casts, both in full and in profile, shall be given, as well as of the skulls and skeletons (83 in number), together with the numerous bodily measurements.+

As to facial expression of race, my experience has shown me that plastic casts offer a wider field of inquiry than mere photographs.

The process by which the casts are taken is a most simple one; t only plaster of Paris, about 5-7 lbs, for each face, is wanted, The individual in question lies down on the ground, a writhed handkerchief is bound behind the ears to prevent the plaster from running down to the ground. Two paper-cornets, moist at the ends, for preventing irritation and sneezing, are put into the nose for allowing free breathing. Before the plaster is laid over the

. When skulls are compared in all their directions, analogous instances become evident and even more apparent still.

† Some of these measurements, which exceed the sum of 400, have been given in my "Buddhem in Tibet," Chapter XIV. For an amlysis of the skulis brought home by my brothers, see Professor Veller's "Chromologische Mittheilungen, No. 7 of the Memoirs published by the German Anthropological Society, founded 1865. This series contains specimens of the following Indian castes and tribes: Bajpats, Lepchas, Ganges-Mussahmans, Thakurs, Sikha, Bhots of Tibet, Kashmiris, Bhils, Gonds, Kols, Nagas, Khusams, Singalese, Gorkhas, Himshres, Units, Rechange, Pale Suffers

Gorkhas, Himalaya Bhois, Bealmana, Bais, Sudrus.

† This series comprises 27 individuals; viz. Herbes, Rifs, Maures, Sus, Lorante, Nogros, African Jews. The heads as well as the facial conta have been as assaily reproduced in metal, and are supplied by John Amb. Barth at

Leipsic, at the price of £6 for an entire head (face and occuput).

face, which is done by means of a spoon, the face is to be carefully smeared over with oil or clarified butter, in order not to draw up with the plaster the hairs from the head; the beard, particularly, is to be preserved by stiff pomasle of some kind. Our brother Edward, a Bavarian offices lately killed in the battle of Kissingen, succeeded, when in Morocco, in making casts of the back of the head also. For this purpose he found it of great use to cover the hair with thin oiled muslin. The back of the head was made first, then the borders were flattened with a knife, and all duly oiled; the head was placed again in this part of the mould for making the face and part of the breast; thus he obtained a true copy of the head. About 15 pounds of plaster are wanted for an entire head and part of the breast.

Dr. Anderson said that he felt quite uncertain as to what was attempted to be proved in the paper just read. If the object was to detect a similarity of race by the comparison of characters derived solely from the external face, he dissented entirely from the adoption of any such system in Ethnological research. The facial characters, when taken by themselves, as M. Schlagintweit has done from casts, which give not the slightest inkling of the form of the cranium, can lead to no very sound generalization in Ethnology, and indeed the more we restrict ourselves to one character as our guide, in proportion will be our liability to increase in error.

Believing that much weight cannot be attached to facial casts as an aid to Ethnological study, I commenced three years ago the formation of a series of life busts, to illustrate in the Indian Museum the external characters of the head and face of the various Indian races. The busts were taken from life, and the plan I adopted, appears to differ little from that which Mr. Schlagintweit has lately followed. It is this:—I make the subject lie down on a charpoy, and support his shoulder and head with a couple of pillows, over which a loose cloth is laid and tucked in round the head, neck and shoulders, to prevent the plaster spreading too much when it is poured on. Before making the subject lie down, I first thoroughly anoint his face, usek and shoulders and chest with oil, and his beard, moustache, eyelids, eyebrows and the hair of his head with butter, which should be laid on unsperingly on these parts, to prevent their adhering to the plaster. When the anointing has been

completed, I place a tube on to each nostril, to allow of respiration when the face is covered with plaster, and I plug the ears. He is than made to recline on the charpoy in the manner I have indicated, and a well oiled cord is laid along the neck from the shoulder in front of the ears and over the top of the forehead to the shoulder on the other side, the ends are allowed to hang down the shoulders a little way. The eyes being gently but firmly closed and the quills in the nostrils, the plaster is poured over the face, neck and as much of the head as can be reached without interfering in the least with the position of the patient ; when the plaster is beginning to set, the ends of the string which passes from shoulder to shoulder are laid hold of by the two ends and pulled towards each other, thus separating the head and facial portions of the east from one unother; when the latter has hardened it is carefully removed and the man can then open his eyes and breathe naturally. With the former portion still remaining on the head and part of the shoulders, he is made to sit up, and the back of the head and neck; is well smeared with butter, and another well oiled string is placed along the posterior margin of the still adherent portion of the cast. The plaster is then poured on to the back of the head and neck; and when it has commenced to harden, it is separated from the remaining portion of the first cast by pulling the emis of the string towards each other. These two pieces are then removed, and the three are found to fit to each other in the most perfect manner. The process is thus completed; I have found it attended with little or no difficulty, and as I have manipulated on a number of hill tribes who are generally difficult people to manage, I fully expect to be able, through time, to have life busts of all the accessible Indian races.

These busts will prove of considerable value when crania cannot be obtained, and there is no country in the world in which the craniologist finds greater difficulty in obtaining materials for study than India, where the inhabitants either burn their dead or regard their remains with superstitions awe.

Dr. Partridge, as Sceretary to the Falconer Memorial Committee, presented a marble bust of the late Dr. H. Falconer to the Asiatic Society. He stated that 44 members of the Society had subscribed Bs. 20 each for the purchase of the bust, and two subscriptions have yet to be realized, but even then a balance of Rs. 110 would be still due to meet the excess of expenditure over receipts. He therefore appealed to the members for additional subscriptions which he hoped would suffice, not only to meet the balance due, but also enable the Society to purchase a suitable pedestal,

LIBRARY.

The following additions were made to the Library since the Meeting held in July last :---

PRESENTATIONS.

Annales Musei Botanici Lugduno-Batavi, by F. A. Guil. Miquel. Tome II. Fase VI. to X.—The Aurnor.

Actes De La Société D'Ethnographie, 5th Avril, 1867.—The Societe d'Ethnographie.

Three copies of Memoranda on the Solar Eclipse of 18th July, 1860, and Data to aid in the observation of the Solar Eclipse of 17th August, 1868.—The Surveyor General of India.

Annual Report on the condition and management of the fails in the North-Western Provinces for 1866,—The Government of the North-Western Provinces.

Mémoire de la Société Impériale des Sciences Naturelles de Cherhourg, Vols. XI. and XII.—Thu Socia Tr'.

Six copies of Memoranda on the Eclipse of August, 1868, by Major F. Tenant:—The Avenor.

Two copies of Catalogue of the Mollasca in the collection of the Government Central Museum, Madras,—Captain J. Mitchell.

Report of the Revenue survey operations of the Lower Provinces for 1865-66.—The Government of Bengal.

Memoirs of the Geological Survey of India, Vol. VI. pt. I. Mr. Blanford's Geology of Cutch.—The Government, or India.

Bulletin de la Société de Géographie, Mai, 1867.—The Geographical Society of Paris.

Four copies of Extract from the Proceedings of the Government of Bombay in the General Department, dated 27th June, 1867.—THE GOVERNMENT OF BESUAL.

Vividim Joán Vistára, No. I.—THE EDIYOR.

The Coal resources and Productions of India, by Dr. T. Oldham. — THE GOVERNMENT OF INDIA. A History of Orissa in Bengali, by Shib Chunder Shome.—The Author.

The Journal of the Chemical Society, April, May, and June, 1867.—The Chemical Society of Lendon.

Reise der Oesterreichischen Fregatte Novara um die Erle in den Jahren 1857, 1858, 1859. Linguistischer Theil, by Dr. F. Muller;— K. K. Ministraton des Innean zu Wien.

Proceedings of the Royal Geographical Society of London, Vol. XI.
No. II.—The Royal Geographical Society of London.

Proceedings of the Academy of Natural Sciences of Philadelphia, January to December, 1866.—The Academy of Natural Sciences of Philadelphia.

Journal of the Academy of Natural Sciences of Philadelphia, Vol. VI. pt. I.—The Academy of Natural Sciences of Philadelphia.

Brief sketch of the gold, silver and copper coinage of Mysore by Lieut, H. P. Hawkes,—Coloxel C. S. Gurunns.

Annals of Indian Administration, pts. I. and H. Vol. XI.—Tus Government of Bengal.

Annual report upon Vaccination in the North-Western Provinces.— The Government of the North-Western Provinces.

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PURCHASE,

The Indian Medical Gazette, Vol. II. No. 8.

The Annals of Indian Medical Science. No. XXII.

The Annals and Magazine of Natural History, June, 1867.

Revue des Deux Mondes, May, and 1st June, 1867.

Comptes Rendus, Nos. 18, 19, 20 and 21.

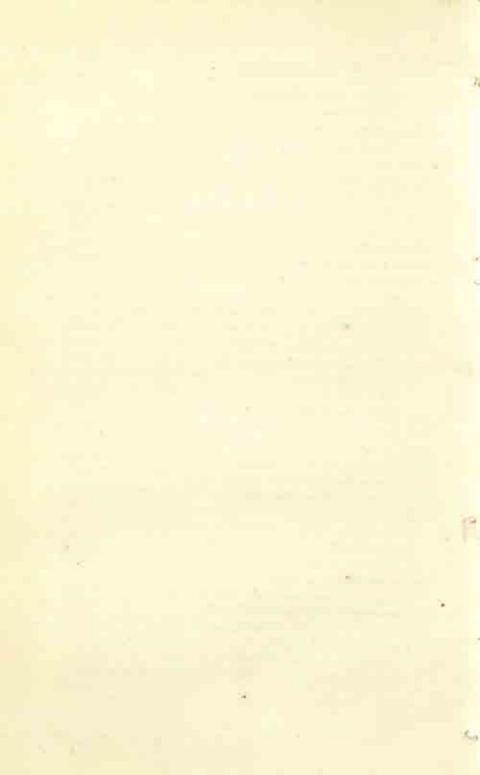
Le Livre de L'Agriculture D'Ibn-Al-Awam by J. J. Clement Mullet, Vol. II; pts. 1 and 2.

Catalogue Général de la Libraire Française, Livr. 4.

Journal des Savants, Mai 1867.

EXCHANGE.

The Athenaum, May 1867.



ABSTRACT STATEMENT

OF

RECEIPTS AND DISBURSEMENTS

OF THE

ASIATIC SOCIETY,

FOR

THE YEAR 1866.

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RECEIPTS.

Brought over, Rs. 21,686 7 6

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RECEIPTS.

Brought over, Rs 24,686 7 6

Balance or 1865. In the Bank of Bengal, Cash in haml,

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920 5 7

Rupees, 25,606 13 1

Examined, Sd. Pactar Ca. Guesaus, Asst. Secry. Asiatic Society Bengul. Errors and Omissions Excepted,
Sd. Buddinaru Branck,
Cash Keeper,
Ariatic Society Bengal.

Examined and found Correct.
Sd. David Waldes, 3 Amilitars.
Sd. S. H. Rosssaon, 3 Amilitars.

Brought over, Rs. 24,708 12 8 G. E. WARD, Esq. Paid Postage Stamps for sending 0 24 0 Library Books, ... 0 14 0 W. IRYES, Esq. Paid Tin box and freight for sending Library Books, 3 13 3 3 13 3 BALANCE. In the Bank of Bengal, 830 2 63 3 2 Cash in hand, 893 Bs, 25,606 13

Examined,

Ed. Puoyar Cu. Guosus,
Asst. Serry.

Ariatic Society Bengal.

Errors and Omissions Excepted,
Sd. Buddenath Breack,
Cush Ecoper,
Asiatic Society Bengal,

Examined and found correct.

Sd. David Wandle,
Sd. S. H. Hounson, Auditors.

STATEMENT Abstract of the Cash

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Proceedings of the Asiatic Society.

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Proceedings of the Asiatic Society.

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BALANCE OF 1865. In the Bank of Bengal, Cash in haml,

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Rs. 9,920 15 11

Examined,
Sd. Proper Co. Guern,
Asst. Secry.
Asiatic Society Bengal.

Errors and Omissions Excepted.
Sd. Burnesans Brancs.
Cash Keoper.
Asiatic Society Bengul.

Examined and found Correct,
Sd. David Walder,
Sd. S. H. Rosesson,

Auditors.

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Sd. Bundinath Branux,
Cack Keeper,
Asiatic Society Bengal.

Examined and found correct,

Sd. David Waldie,

Sd. S. H. Romsson,

Auditors.

STATEMENT, No. 3.

Shewing the Assets and Liebilities of the Asiatic Society at the close of 1866.

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Examined, Sd. Photar Cutvami Guosmi,

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Prospectus

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THE LIFE OF GAUDAMA.

CREVISED EDUTION,

BY THE RIGHT LEY, P. MULSON, D. D.

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NOTICE TO MEMBERS

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ASIATIC SOCIETY OF RINGILS

1000

THE GENERAL SECRETARY

No. X .- NOVEMBER, 1807.



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THE RESERVE OF THE PARTY OF THE

CHEST WAY

DESCRIPTION OF THE PARTY NAMED IN COLUMN TWO





PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

FOR NOVEMBER, 1867.

A General Meeting of the Society was held on Wednesday, the 6th instant, at 9 r. M.

Dr. S. B. Partridge, Vice-President, in the chair,

The minutes of the last meeting were read and confirmed.

Presentations were announced:-

- From Colonel C. S. Guthrie; 79 Sheets of the Ordnance Survey maps of England.
- From Captain R. A. Cole; a copy of his Elementary Grammar of the Coorg language.
- From Colonel J. T. Walker; copies of the administration report of the Great Trigonometrical Survey of India, and of the Topographical Survey in the Bengal Presidency, for 1864-65 and 1865-66.
- From Babu Kedárnáth Banerjee, the publisher; a copy of Chaudakaushika Ndtaka, with commentaries.
- From Pundit Satyabrata Swami; the first No. of Pratnu-kumrunomlini.
 - 6. From F. Cockburn, Esq.; a specimen of Sciurus palmarum.
 - From J. Avdall, Esq.; a fossil elephant tooth from Caunti.
- From John S. Harris, Esq.; a copy of a Japanese and English Dictionary.
 - 9. From Babu Jadunáth Datta, a young Crocodile.

At the invitation of Dr. Partridge, Captain Anderson introduced two Andamanese lads to the meeting. He also laid before the meeting the following correspondence detailing the objects for which the boys had been brought to Calcutta. He had found them apt at learning the names of things, and acquiring a parrot-like imitation of sounds. They had no objection to wearing clothes, but on the contrary showed an especial desire to wear them.

From Lieut-Colonel B. Fond, Superintendent, Port Blair, To Captain T. C. Anderson, Barrock Master, Fort William, Dated Port Blair, 3rd August, 1867.

Sig,—In accordance with your expressed desire and offer, on the occasion of your visiting this settlement some months ago, to undertake the education of any Andamanese Iad, who could be induced to go to Calcutta for that purpose, I have the honor to acquaint you that I referred the matter to Mr. J. N. Homfray, in charge of the Andamanese house at Port Mouat, in terms of my letter No. 248 dated 31st of May last, copy attached.

2. From his reply No. 5 A, dated 19th June last, copy attached, there appears to be no objection or difficulty in carrying out your object, so far as the children and their friends are concerned, and as it is a scheme which, if successful, is likely to be traught with many advantages and benefit to the Amiamanese themselves, and to the Government, in effecting an amicable understanding with the aborigines, as well as regards other interests between them and future residents and settlers on those islands, I beg to recommend that you now apply to the Supreme Indian Government for permission to carry out your scheme, and if sauctioned, I shall be glad to afford you all the assistance at my command in carrying it out.

I have the honor &c., (Signed) B. Fonn, Lieut.-Colonel.

From J. N. Hompay, Esq. Asstt. to the Superintendent, in charge of the Port Monat, Andaman Ida.

To Lieut, Colonel B. Fond, Superintendent Part Blair,

Dated Port Mount, 19th June, 1867.

Sm.—I have the honor to acknowledge the receipt of your letter.

No. 248 of the 31st May last on the subject of an offer of Captain

T. C. Anderson to undertake the education of an Andamanese lad,
who would afterwards prove of great use to the world, particularly to
those dwelling in these Islands.

I acknowledge the offer to be a most liberal and charitable one, with great advantages to be gained by all who take an interest in thu welfare of mankind; especially of those unfortunates, who have not yet the light of civilization thrown open to them.

I have enquired of the Andamanese on the subject, to which they have no objection, and I would suggest that the best way to carry it out to satisfaction would be as follows:—

I believe about the end of this year there is to be an Ethnological congress in Calcutta, in which case, I dare say, I might be required to show the races of these Islands, and on which occasion I could take such lads as are desirable and willing to remain behind in Calcutta for education. I would return with their parents or guardians, who would then be sure of the youngsters being taken cars of and treated kindly. I would advise two or three being educated, as jointly they are likely to do more good than a single boy, whom their friends would doubt, and not take notice of on his return. It is necessary for them to keep up their own language in Calcutta, and also, on their return here, to keep up the English they would learn in Calcutta. They would also recall to each other past occurrences, which they would relate as instances to their friends, and which no doubt would be very interesting and useful to them. Should one die, the others could explain the cause to the tribe, on their return, and I am sure their parting from their friends would not be felt severely, By the same opportunity I would pay for the expense of one lad in living and education, and would further suggest that their separation from the tribe should not be for more than two years, after which period, on visiting them, should they express a wish to return to their homes, they ought to be allowed it, and again, if found necessary, and they be willing to return to Calcutta for education, it may be continued. This would show them our good intentions, and would increase their confidence in us. The lads should be treated kindly and with mildness, and not frequently flogged for not knowing their lessons and other trifles; firmness is necessary, which can be effected by witholding any indulgences from them. The mere knowing of the English language, with our habits, customs and manners, is a great boon without being great scholars. This should be the first two years' tuition : food and clothing will be the heavy expense.

I have de.,

(Signed) J. N. Houffay,

From Lieut,-Colonel B. Ford, Superintendent, To J. N. Homfrax, Esq.,

Dated Port Blair, 31st May, 1867.

Sra,—On the occasion of the visit to this settlement, some months ago, of Captain T. C. Anderson, Barrack Master, Fort William, Calcutta, that officer made, I believe, an offer to you of undertaking the education of any Andamanese lad, who could be induced to go to Calcutta for that purpose; the object in view being eventually to send amongst the aborigines of those islands, a man of their own tribe, who might not only be an interpreter between them and us, but with whose aid perhaps greater ends might be accomplished.

- 2. I have the bonor now to inform you, that I have by the last mail received a renewal from Captain Anderson of his former offer. This offer is a most liberal one, and I am of opinion that no pains should be spared to take advantage of it; and I should be much obliged to you therefore, if you will endeavour to induce any of the ciders of the tribe, with whom we are most friendly, to nominate a lad, say from 7 to 10 years of age, whose friends they might be able to persuade for a time to part with him, in order to go to Calcutta for the purpose of education. Our Andamanese friends must have such a pleasurable recollection of Calcutta hospitality and kindness, (in which respect they owe much to yourself), that I entertain a hope that there would not be much difficulty in inducing the Andamanese to send a lad away for a time for the above purpose.
- 3. I would suggest, should there be any reluctance to send a single individual, that I would undertake to induce Captain Anderson to receive two lads, who would thus not only be happy in their companionship, but who, from living together, would be less likely to forget their mother tongue.
- I should feel obliged by your giving me an early reply in this matter, as I am desirons of replying to Captain Anderson's offer, as requested, by the next mail.

I have, &c. (Signed) B. Fonn, Lieut,-Col. From A. H. Hantsoron, Esq., Offg. Under-Secy. to the Govt. of India.
To Captain T. C. Anderson, Barrack Muster, Fort William.

Dated Simla, the 9th September, 1867.

Siz,—I am directed to acknowledge the receipt of your letter of the 21st ultime, and to state in reply that the Governor-General in Council has much pleasure in acceding to your wish to undertake the charge of not more than two Andamanese lads, for the philanthropic purposes indicated in your letter, provided they are not removed from India, and that they are produced whenever required, either for inspection, or if Government should think it fit, for restoration to their friends,

I have, dec.

(Signed) A. H. HARINGTON,

From Lieut.-Col, B. Ford, Superintendent, Port Blair, To Captain T. C. Anderson, B. S. C.

Dated Port Blair, 21st October, 1867.

Sin,—I have the honor to inform you that, agreeably to your request, and by the permission of the Government of India, two Andamanese lais are lorwarded by this opportunity, to be made over to you, in accordance with your philanthropic intentions as regards the undertaking of their education and improvement, with the view to their ultimately being a benefit to their fellow islanders on the Andamans.

Dr. J. B. Gaffney, in medical charge of the troops on Board the "Arracan," has been so good as to take charge of the lails, to make them over to you. As the steamer "Arracan" returns immediately to Calcutta, and as Mr. Homfray has had, consequently, but 24 hours' notice of her departure, he has not been able by this opportunity to send you the vocabulary you wish for, but trusts to do so at an early date.

The two lads have been selected by Mr. Homfray and myself; the objects we had in the selection were, to send such as were willing to go, whose relations had no objection to their being sent, who had themselves evinced intelligence, and were not too old for placing under tuition. Their names are,

Andaman names, { 1 Katoo, 2 Katoo Moogtie.

[&]quot;Seedi Boy"-The former name given by Mr. Homfray.

For facility of recognition these lads have been given the simple names of

Mr. Homfray has vationed and made every provision for the lads on board the 'Arracan,'

The original enclosure of your letter of 12th ultimo is herewith returned.

At the request of the chairman the boys sang a native song and performed a native dance,

The special thanks of the meeting were voted to Captain Anderson for the introduction of his interesting charges,

M. E. Petit, duly proposed and seconded at the last meeting, was balloted for and elected an ordinary member of the Society.

The following gentlemen were nominated candidates for ballot as ordinary members at the next meeting.

- W. H. Stevens, Esq. C. E., proposed by Mr. V. Ball, seconded by Mr. Ormsby (for re-election).
- G. King, Esq. M. D. 1st Central India Horse, proposed by Dr. Ewart, seconded by Mr. Ormsby.
 - J. S. Harris, Esq. proposed by Dr. Colles, seconded by Mr. Scott.
- F. J. Chambers, Esq., India Carrying Co., proposed by Mr. W. King, seconded by Mr. Ormsby.

Lieutenant J. Johnstone, Superintendent of Elephant Khuddas, Central Provinces, proposed by Mr. Medlicott, seconded by Mr. H. F. Blanford.

- J. W. Chisholm, Esq. Commissioner of Belaspore, Central Provinces, proposed by Mr. Medlicott, seconded by Mr. H. F. Blanford.
- E. Gay, Esq. Finance Department, proposed by Dr. J. Anderson, seconded by Mr. Locke.

Letters from the following gentlemen, intimating their desire to withdraw from the Society were recorded;—

The Hon'ble E. Drummond.

Babu Sóratnáth Mullick,

E. S. Robertson, Esq.

Mr. H. B. Medlicott moved the following, notice of which was duly given at the last meeting.

"That the latter portion of Rule 62 be altered to read as follows;—
for the purpose of taking into consideration special matters relating
to the business of the Society, but not extending to the alteration of a
Bye Law."

Some discussion arcse on this motion as to the course that should be adopted in accordance with the Rules of the Society; at the conclusion of which, the Chairman notified that in accordance with Rule 43, the motion must be referred to the Council for Report.

The Council reported that they have re-elected Mr. H. F. Blanford, a member of their body and as General Secretary to the Society, in place of Mr. M. H. Ormsby who has resigned, and they recommended that a vote of thanks be given to Mr. M. H. Ormsby for his valuable services as Secretary.

The vote of thanks was unanimously carried.

Read a letter from the Secretary to the Government of India, forwarding, for the information of the Society, copies of the fallowing circular letter to the local Governments, on photographing architectural remains and other works of art in India.

Simlo, the 20th August, 1867.

Sis,—The desirability of conserving ancient architectural structures or their remains, and other works of art in India, and of organizing a system for photographing them, has attracted the attention of the Governor-General in Council, and, as the first step towards attaining these objects, I am directed to request that a list may be submitted, for the information of the Government of India, of all such remains or works of art as may exist in each district, together with a report of the measures that have from time to time been adopted to preserve them.

- 2. As regards photographing them, the Governor-General in Council is of opinion that the employment of professional skill will be unnecessary, and that the services of amateurs may with advantage be emlisted.
- 3. In this view, I am directed to request that arrangements may be made for the photographing by competent amateurs of all such

objects of architectural and artistic interest in their neighbourhood, as may be included in the list called for in the opening paragraph of this letter, and for their submission to the Secretary of State.

4. I um to add that some assistance may be given, where desired, either in the shape of travelling expenses, or by the purchase of a certain number of copies of really good photographs.

I have the honor to be,

SIII.

Your most obedient Servant,

E. C. BAYLEY, (Signed)

Secretary to the Gost, of India.

No. 4040.

Copy forwarded to the Foreign Department for communication and issue of the necessary orders to the Political Officers under its control. Secretary to the Goet. of India.

The following letter from H. P. Lemesurier, Esq., was read. Allahabad, Oct. 24th, 1867.

MY DEAR GROTE,

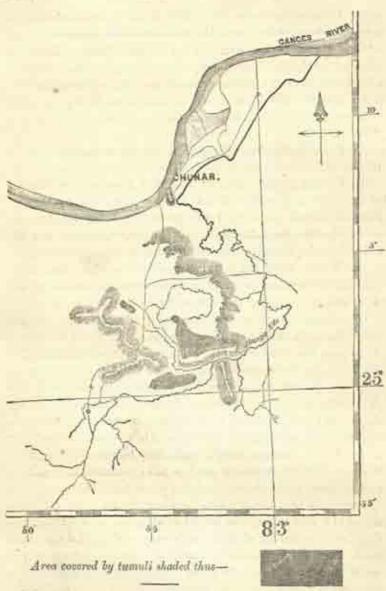
I have just hit upon a large area of ground covered with Cairns or stone barrows, each of which has contained a perfect kist: very many have been ramacked in times past by the natives. I opened one

that seemed undisturbed. Its section was longitudinally thus:-

Three of the four

walls were of dry rubble-stone; the fourth, the western one, was a stone on edge. Covering slabs about four feet, and from 18 inches to 27 inches wide. Length 6' 6' breadth 2' 0'. Depth 18 inches or rather more; not any vestige even of a tooth or jaw bone, but mould of fine quality. Two chips of sandstone might have been in use. There must be a hundred tunnili in all. Have these been noticed before? I send sketch of the position.

> (Signed) H. P. LEMISURIER.



The Chairman drew attention to the discrepancy of the observations recorded at the Government Observatory during the late Cyclone, and those taken by Mr. Laiont and other observers; also to the destruction of the Anemometer, so that the pressure of the wind was registered for a small part only of the storm. He moved that Government be solicited to make enquiry into the cause of these failures. The proposition was seconded by Mr. Medlicott and carried unanimously. The possibility of warning the town in cyclones was also a subject of discussion.

The receipt of the following communications was announced.

From Lieut.-Col. C. L. Showers. On the Meenas, a wild tribe of "Central India,"

- From W. Theobald, Esq. Jr. A descriptive Catalogue of the reptiles of British Burma.
- 3. From R. Michell, Esq., F. R. G. S. A Translation of "Survey of the western extremity of the Karakau Mountains by Captain Meyer," and of "A General Survey of the country lying to the westward of the Trans Di Region between the rivers Chin and the Jaxartes or Syr Daria, by Col. Poltoretski."

Dr. Waldie made the following observations with reference to the communication he had made to the Society at the meeting of 3rd April last, on the subject of the Hooghly water:—

Observations had been continued during the succeeding hot and rainy seasons, in order to settle one or two points then left doubtful, As respects the river water of the hot season, the new observations had confirmed the former ones in regard to the amount of organic matter : much less common salt, however, had been found in the water than in the previous year. Possibly this might have arisen from the proper time of full tide not having been caught, although this seemed not a very probable explanation. With respect to the water of the rainy season, he had formerly brought particularly to notice its putridity : this year, however, it was not found to be so characterised or at least only to a very slight degree: had the odour been the only point of difference observed, it might have been supposed to be due to some mistake in observation, but several other points of difference were found to exist, and all of them corroborative of the indications of the first. Indeed, judging from the amount of vegetation formed in the water by long standing, the water of 1865 contained more organic matter than that of 1866, and this again than that of 1867. He was disposed to attribute these differences to some general cause, possibly connected with the amount of minfall, but could form no decided opinion.

The particulars of these observations would be found in a postscript, dated 16th September, to the paper, Part III, just published in the Society's Journal.

LIBRARY.

The following additions were made to the Library since the last meeting in September.

. The names of Donors in capitals.

Presentations.

The Journal of the Royal Geographical Society, Vol. 36.—The ROYAL GROUBAPHICAL SOCIETY OF LONDON.

Mélanges Asiatiques tirés du Bulletin de l'Académie Impériale des Sciences de St. Petersbourg, Tome V. Chronologisches Verzeichniss der seit dem Jahre 1801 bis 1866 in Kasan gedruckten arabischen, türkischen, tartarischen und persischen Werke, als Katalog der in dem asiatischen Museum befindlichen Schriften der Art, von B. Dorn.— Ten Author.

Selections from the Records of the Government of India, Foreign Department, No. LIII.—The Government of India, and the Government, of Bengal.

Two copies of Professor Wilson's Glossary of Indian Terms.— THE GOVERNMENT OF INDIA.

Dattaka Çiromani.—Baboo Prosonnocooman Tagone.

Chandakaushika nataka.—Baboo Kebabnath Banenjee.

Annual Report and Transactions of the Adelaide Philosophical Society for 1865 and 1866 :—The Society.

Annales Musei Botanici Lugduno-Batavi, edidit F. A. G. Miquel. Tome III. Fase I.—V.—The Leyden University.

Rahasyssandarbhu, No. 42.—Babu Rajendralala Mitra.

Bulletin de la Société de Géographie, for July and August, 1867.— The Geographical Society of Paris,

Mémoires de l'Académie Impériale des Sciences, Belles-Lettres et Arts de Lyon: new series; Vols. XII, XIV and XV.—The Imperial Academy of Sciences, Belles-Lettres and Arts of Lyons.

Annales des Sciences Physiques et Naturelles, d'Agriculture et d'Industrie : Srd series, Vols. IX and X.—The IMPERIAL SOCIETY OF AGRICULTURE &C. OF LYONS.

Indische Studien, Vol. X. No. 2.—The Author.

Proceedings of the Natural History Society of Dublin. Vol. IV. pt., III.—The Natural History Society of Dublin.

Memoirs of the Geological Survey of India, Vol. VI, pt. 2.—The Government of Bengal.

Selections from the Records of Government, North-Western Provinces, Part XLV.—The Government of the North-Western Provinces.

Notes on the Propagation and Cultivation of the Medicinal Cinebonas or Peruvian Bark trees, by W. G. McIveor.—The Government of Bengal.

An Elementary Grammar of the Coorg Language, by Captain R. A. Cole, Superintendent of Coorg.—The Author.

The Anthropological Review, Nos. 18 and 19,—The Anthropological Society of London.

The Journal of the Chemical Society, for July, August and September, 1867.—The Chemical Society of London.

Proceedings of the American Philosophical Society, Vol. X. No. 76.

—The American Philosophical Society,

Memorie della Reale Accademia della Scienze di Torino, Vol. XXII.—Tre R. Academy of Sciences of Turin.

Atti della R. Accademia Della Scienze di Torino, Vols. 1 and 2.

—The R. Academy of Sciences of Tunin.

Purchased.

The Song of Songs, a pastoral drama, not by King Solomon, with notes by Satyam Jayate.

Adam's Wanderings of a Naturalist in India.

Forbes's Hindustani and English Dictionary, Part I.

Revue Archéologique: new series Vols, XIII and XIV, and Nos, 1, 2, 3, 4, 6, 7 and 8, 1867.

Encyclopédie Méthodique; Histoire Naturelle des Vers. Vols. 1, 2, 3 and 4.

Tableau Encyclopédique et Méthodique des Trois Règnes de la Nature. Vers, Coquilles, Mollusques et Polypiers, Vols. 1, 2 and 3.

The Ibis, July 1867.

The Annals and Magazine of Natural History, Vol. 26, No. 116.

The Edinburgh Review, July, 1867.

Revue de Deux Mondes, 15th July, 15 August, and 1 September, 1867.

Revue de Zoologie, No. VIII. 1867.

Comptes Rendus, Nos. 1, and 3, 5, 6, 7, 8 and 9, Vol. LXV.

Bopp's Glossarium Comparativum Linguae Sanscritae, last part.

The Calcutta Review, August 1867.

The Indian Medical Gazette, October and November 1867.

Journal des Savants, Aout 1867.

Indische Studien, Vol. X. No. 2.

A Catalogue of Shells, British and Foreign, with a supplement by W. Wood.

Bentham and Hooker's Genera plantarum, Vol. I. Part III.

Tomlin's Comparative vocabulary of forty-eight languages.

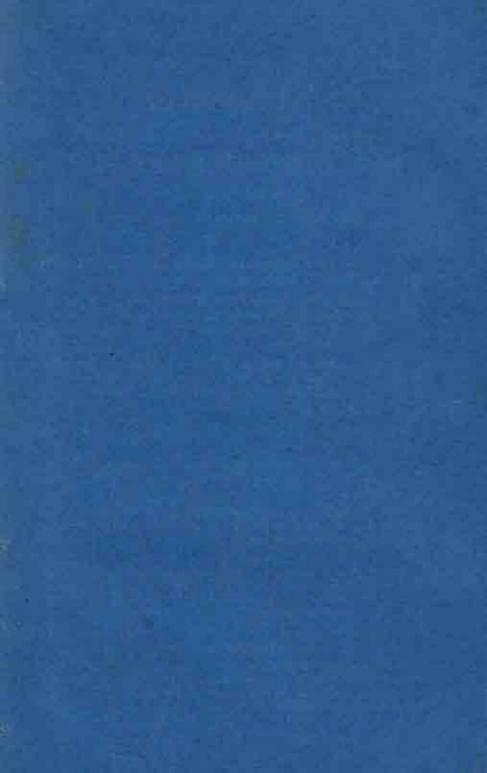
The Annals and Magazine of Natural History, September, 1867.

Reeve's Conchologia Iconica, Parts 264 and 265.

Exchange.

The Athenseum for August, 1867.





Prospectus

THE PERSON AT ADMINISTRAL PROBLEMS IN

THE LIFE OF GAUDAMA.

PREVIEW RESTORT

ER THE MOUTE BEET, IN MICHESTER, IF TO

The value of the above work is thely appreciated by all readers of the distribution and mostly to recommunications.

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NOTICE TO MERBERS

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PROCEEDINGS

ASTATIC SOCIETY OF BENGAL.

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No. XI DECEMBER, 1867.



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PROCEEDINGS

OF THE

ASIATIC SOCIETY OF BENGAL,

For DECEMBER, 1867.

A monthly general meeting of the Society was held on Wednesday the 4th December, 1867 at 9 p. M.

Dr. J. Payrer, President in the chair.

The minutes of the last meeting were read and confirmed.

A photograph by Messrs, Thepland and Bourne, of the two Andaman lads introduced at the last meeting was exhibited by Captain Anderson; and it was announced that members desiring to obtain copies might procure them at the photographers'.

The following gentlemen duly proposed and seconded at the last meeting were balloted for and elected as ordinary members.

W. H. Stevens, Esq. C. E.

G. King, Esq. M. D.

J. S. Harris, Esq.

F. J. Chambers, Esq.

Lieut. J. Johnstone,

J. W, Chisholm, Esq.

E. Gay, Esq.

The following were nominated as candidates for ballot at the January meeting.

Baboo Rakal Doss Haldar, Deputy Collector, Mannbhoom, proposed by Col. E. T. Dalton seconded by Dr. J. Anderson.

J. Boxwell, Esq. C. S. Officiating Deputy Commissioner, Western Doars, proposed by Lieut. J. Williamson seconded by Dr. J. Anderson,

The Rev. J. C. Browne, has intimated his desire to withdraw from the Society, The Council reported that they have elected Coll. J. E. Gastrell and Dr. J. P. Colles, members of their body, in places of H. B. Medlicott, Esq. and Dr. J. Anderson who have resigned.

They announced also that they had nominated Col. J. E. Gastrell as Hon. Treasurer, and Dr. J. P. Colles as Natural History Secretary of the Society.

The council recommended that a special vote of thanks to be given to Dr. J. Anderson and H. B. Medlicott, Esq. for their valuable services as officers of the Society.

The proposition was agreed to unanimously.

A letter from Professor Bapa Deva Sastri with reference to a letter received some months since from Major Ellis was read. The following are the original letter and the reply.

> Southbrook Cottage; Starcross; near Exeter, 20th November, 1866.

Dann Sin,—I beg to enclose a copy of an astronomical calculation, identifying a partial celipse of the sun, recorded on a grant of land by Janamajaya, published p. 447, Vol. 6. Bengal Asiatic Researches, with one, given by Fergusson, which occurred on 3rd April, A. D. 889, for which I am indebted to the kindness and scientific knowledge of Captain Peacock, formerly of the Royal Navy; and shall esteem it a particular favour, if you will, in the first instance, kindly be at the trouble of ascertaining, whether the pandits of India have any knowledge of the eclipse, which happened on the 3rd April, A. D. 889, about Sambat 946 Vikramaditya; and afterwards proceed with the enquiry of testing by their knowledge the validity or otherwise of the identity of the two Eclipses, supposed to be established by Captain Peacock's postulate.

R. R. M. ELLIS.

In explanation of the very great interest which I take in these enquiries, I should mention, that when I was agent in Bundelkhund, I held the office of Vice-President Delhi Archwological Society, and for several years when in constant communication with Sir Henry Elliot and Mr. Thomason about them. Postulate regarding a partial eclipse of the sun on Sunday in the Krishna Paksha, or dark half of the moon in the month of Chaitra, when the sun was entering the northern hemisphere, the moon being in the Nakshatra Aswini; recorded on a grant of land on copper by Janamajaya, the son of Parikshita; published p. 44, Vol. 6, Bengal Asiatic Researches, 1809.

The words of the text are "Chaitramass Krishna" or the dark half of the month, and as Chaitra answers to the month between 15th March and 15th April, the dark half would seem to imply the time of new moon for that month, at which time only could an eclipse of the sea happen; and this would be in March or early in April the dark half of the moon being then turned towards the earth, and within the limits of the 17th in the Lunar Nodes; as a solar eclipse only can happen when the moon's latitude, as observed geometrically, is less than the sum of the hemidiameters of the sun and moon combined; because the course of the moon in its path being oblique to that of the sun, makes an angle of 5° 35".

Now in examining into the date of the colipse named in the text, and working out the dominical letter and Epact according to the tables in the prayer-book as well as those given by Fergusson, it would seem to have been that named in Fergusson's astronomy at page 217, in Strack's Catalogue of Eclipses as having been observed at Constantinople on the 3rd April, A. D. 889; the record of the Hindu plates states that the moon was in the Nakshatra Aswini, which answers to the zodiacal sign Arces, and which would also coincide with the month "Chaitra," or between the 15th March, and 15th April, as the sign Aswini or the horse's head comprised a portion or period of the Zodiac-a little over 13 days-the dark shadow of the moon, and ergo, the sun would therefore be in Aswini on the 3rd April, the sun having entered the Northern Hemisphere, or the first star of America on the 22nd March, coincident or nearly so with the sign of Aries, and quitted Aswini on the 4th April, to enter Bhaiani.

I have calculated all the other colleges of the sun, happening between the 22nd and 31st March from the year 1261 down to 1699, twelve in number, or during the period of Aswini path, but not one of these happened on a Sunday, and no solar college took place in Aswini at any period except the 3rd April answering to Sunday.

There was a solar eclipse observed at Rome on the 1st April, A. D. 238, and one on the second April, 1307, observed at Ferara, but neither of these fell on a Sunday, therefore I am of opinion that the one named in the text must have occurred on the 3rd April, A. D. 889.

(Signed) George Peacock, F. R. G. S. Formerly Master, Royal Navy, 1835.

To Baba Rajendhalala Mitha, Hon, M. R. A. S. Phil. Secretary Asiatic Society, Bengal.

Sir,—I have the pleasure to acknowledge the receipt of your letter No. 765 dated the 28th ultimo, together with extracts from Major Ellis' letter. He states in it, that the Solar eclipse, observed at Constantinople in the month of April, 889 A. D., happened on a Sunday in the Krishna Paksha, the month Chaitra, when the moon was in Ascini. But I have carefully ascertained that this eclipse occurred on Friday and not on Sunday. I have determined this also, that the eclipse answers to the 3rd April according to the old style, but by the new style it fell on the 8th April. Major Ellis mentions also that no Solar eclipse took place in Ascini at any period except the 3rd April answering to Sunday. But this is not the case, as a great Hindu Astronomer named Ganesa, the author of Grahdlaghava says:

माने त्यानानुतृत्वे स्पग्नरदि सचै। सामि रामेन्द्रनाडी-तुन्ते दर्गेशिषको दिनकरदिवसे भानुसर्वयने भूत। तिमिन् पसेशिको चासामितमपि वृषः कावसप्तिमृद्धा-सारा दृद्धा दिवान्याकुस्तितिक जगन्तव चा सा चकार॥

"In the year 1443 of the Salivahana era the Sanuatura called Forsha and the month of Chaitra, a total celipse of the sun took place on Sunday at the time of new moon, 13 ghatic (from sunrise) in the nakshatra ascini. At the time of obscuration the star decini (a Arietis) even though it was too near to the sun, the planets Mercury and Venus, and the seven stars of Ursa Major &c., were visible, the owls were flying all about and all people were confused."

I have also calculated this eclipse, and found that Gaussa is quite right.

The time of this eclipse answers to the 6th April (O. S.) or the 17th April (N. S.) 1521 A. D.

Therefore it cannot be supposed that the solar cellipse recorded on the grant of land occurred on the 3rd April, 889 A. D. because it fell on Friday and not on Sumlay.

> Yours faithfully, BAPU DEVA SASTRL

Benares, 21st Oct. 1867.

Read a letter from Dr. J. L. Stewart of Lahore on the carnivorous habits of the Himalayan bear.

Lahore, Nov. 25th, 1867.

My mean Sis,—It would appear that the problem has not hitherto been definitely solved, as to whether the Himalayan bears are ever carnivorous, except under stress of want of vegetable food. The following may accordingly be interesting to some members of the Society.

On 7th ultimo, Lieut. Chalmers and Mr. Sparling of the Forest Dept. reached Portee in Pauji on the upper Chenab, lying at about 7500 feet above the sea, in order to inspect and extend certain Deodar plantations.

It was reported to them that on that morning a large brown Bear had fought with and killed a smaller one and eaten part of the body, at a spring close to the plantation and in eight of some of the labourers. The body of the smaller bear was found concealed under leaves and grass, a part near the belly having evidently been gnawed and torn off by the jaws of some powerful animal.

On the 10th it was reported that at the same place and within sight of several labourers, the same larger bear had fought with and killed another. The body of the latter, a female, was found by the two officers concealed under leaves, a considerable portion of the back having been consumed.

It would perhaps have been more satisfactory if, in both cases, the bodies had been left for a time, to discover if the cannibal would come back to complete his meal,

Near the spot there is abundance of walnuts and wild fruits of

which the bear is found, as well as of standing buck-wheat, which is perhaps preferred to other kinds of vegetable food.

Yours very truly,

L. L. STEWART.

With reference to the above, Dr. Buckle mentioned having once possessed a Cashmere bear which though tamed and well fed, killed and ate a goat. He shewed an especial taste for old bones: and at last his carnivorous propensities rendered it necessary to destroy him.

The receipt of the following communication was announced.

From Colonel A. Fytche "A Memorandum on the Panthays of Yunan."

At the request of the President, Colonel A. Fytche then read the Memorandum as follows:—

"Considerable difficulties exist in procuring correct intelligence of the Pauthays, or Mahomedan population of Yunan. In the first place, they were not inclined themselves to be communicative; but rather assume a studied ignorance of their own affairs :- Secondly, communication can only be ordinarily held with them, through Chinese merchants and brokers, residents of Burma Proper, who speak the Burmese language; and who, in addition to their own private and selfinterested motives for preventing free intercourse with traders from Yunan, are moreover in the pay, or subject to the infinence of the King of Burma. They well understand the royal policy of exclusiveness, and have been made acquainted with the several indirect orders which from time to time, have been issued by the Government, in order to restrict as effectually as possible, every means of intercourse between Panthays and foreigners of all nations. The little information, therefore, which it has been possible to collect from the above sources furnished me by Captain Sladen, and also from a few Punthays who visited Moulmain with a Shan caravan, when I was Commissioner of the Tenasserim and Martaban Provinces in 1861, is vague and meagre; but such as it is, I will now briefly record it.

A paper has been published in the Russian Military Journal for August 1866, on the late rising of the Dungens, or Mussalman population in Western China. I am of opinion that there is no political affinity between the Dungens of the North Western, and the Panthays of the South Western Provinces of China; or rather, that the present rising of the Dungens on the North, bears no relation to the former rebellion of the Panthays on the south, or to any subsequent movement of the Southern Mussalman population of Yunan, to throw off the Chinese yoke; such movement having commenced as early as the year 1855.

"This opinion must be understood, however, to have reference only to the present attitude and circumstances of the Panthays in Yuam; without any speculative allusion to causes, or the possibility of future combination; for the Panthays of Yuanas and the Dungens, are, after all, of the same race and religion, and are merely divided from each other, by the Province of Sochuen; and a general struggle for independence, if it really arises, and is able to make head against the Chinese Government, will certainly include at no great distance of time, the whole of the Mahomedan population in China wherever found. The first sign of a combination between Panthays and Dungens, will be manifested by the fall of Sochuen, and the news of such an event would soon reach this Province.

"The term Dungen or Turgen is not known or comprehended by either Pauthays or Burmese. The Mahomedans of the North Western Provinces of China are known to the Panthays, by the same denomination as they call themselves, "Mooselin," and to the Burmese as "Tharet." The word Panthay, or as it is sometimes pronounced Panzee, is of Burmese origin, and is a mere corruption of the Burmese word "Puthee," which signifies, or distinguishes Mahomedans from persons of other religious in Burma. The Chinese call the Panthays "Quayz." What they term the Mahomedans of Kansoo, I am not aware—possibly it may be Dungen or Turgen. The Mahomedans of Kansoo are said to have lately achieved their independence, and occupy that province under a chief named Abdool Jaffir,

"The Mahomedans of Yunan are merely a remnant, I should imagine, of the great wave of Mahomedan aggression, which, under Mahomed of Guznec, Mahomed Ghori, and Gengis Khan, overran Persia, India, and a portion of Northern China: their ingress and progress in China, are separately given or accounted for by Chinese and Panthays. The Panthay account is somewhat mythical, and assumes at once the superiority of their race. The Chinese version

deals loss in mystery, and is more in bearing with supposed historical facts. They are as follows:—-

" Panthay Version. Once upon a time, China was subjected to a plague of evil spirits, who desolated the whole country, and in fact put a stop to the regular course of nature. The sun ceased to show itself, excepting now and then, in obscure and fittul gleams; and the land refused to produce, or vield fruit in due seasson. During this calamitous state of affairs, the Emperor 'dreamed a dream,' in which a form was prominently revealed to him, in the dress of an Arab; but indicating at the same time, every appearance of peace and friendly goodwill. Astrologers and experts in such matters, interpreted the Emperor's dream to signify, that the plague of evil spirits would cease on the appearance of a force of Mahomedan Arabs who were well known to be a source of terror to evil spirits and devils of every description. The Emperor was convinced, and sent a mission direct to the Prophet Mahomed, in which he begged the assistance of a few of the Prophet's followers. Mahomed sent 360 men, who, in due time, reached China. By virtue of their presence, the evil spirits vanished, and the country was restored to its former prosperity. The Arabs were treated with becoming honour, and allowed to settle and establish themselves, in the vicinity of the Royal Capital. But in course of time their numbers increased to such an extent that the Chinese Government became anxious about its own safety; and an arrangement was effected, by which the Arab population near Pekin was broken up, and sent in small parties to the confines of the Empire; where they have since established themselves, more or less firmly, and in some instances proclaimed their independence.

"Chinese Version.— About a thousand years ago, there was a great rebellion in China, and the Government was in danger. The reigning Sovereign at the time was Oung-lo-show; and being in tribulation, he sent for assistance to a certain King, named Razzee or Khazze, who ruled over the countries to the West of China. A Mahomedan contingent of 10,000 men was sent, and with their assistance, the rebellion was suppressed, and the services of the contingent dispensed with. But a difficulty now arose, as to the return of the Mahomedans to their own country. They had been greatly reduced in numbers, and their inclination to stay where they were and settle

down in China, was encouraged by reports, which reached them, to the effect that a return to their own country was forbidden, owing to long residence abroad, and their pollution as Mahomedans by contact with swine and other abominations, which were known to abound in China. The remnant of the contingent was finally located in Yunan, and settling down there, became peaceful subjects of the Emperor of China.

"It is to be inferred that the Mahomedan population in Yunan was, for some centuries, at least, loyally disposed towards the Chinese Government; for no particular mention is made of them in Chinese History, as far as is known, after their domestication in Yunan, until the year 1855, when they rebelled and successfully

threw off the Chinese yoke.

"The rebellion is stated to have originated and been carried out in this wise. The Panthays in Yunau had multiplied and become a flourishing and distinct community. They preserved their separate nationality and customs, but were nevertheless obedient to the Chinese laws. The Chinese and Tartar officials are said to have been oppressive, and the foreign population was specially marked out for the exercise of more than ordinary severity. Their industrious habits and general aptitude made the Mahomedans profitable subjects; whilst it rendered them, at the same time, victims to unjust and extortionate masters. Then a feeling of enmity and hate was engendered, with the usual results. The Loosenphoo Silver Mines of Yunan were worked by Panthays, under the superintendence of Chinese officers. On a certain day a dispute arose at the mines, and the miners, exasperated by unjust treatment, had recourse to force and murdered every Chinese officer they could find, The revolt of the miners, was at once followed by a general armed rising of the Panthays throughout Yunan. Being far inferior in number to the Chinese, they at first took to the woods and mountain fastnesses, whence they carried on a fierce guerilla warfare. Meeting every where with success, they were soon joined by large numbers of the neighbouring semi-independent hill tribes of Shans, Kakhyens,*

^{*} The Kakhyens above alluded to are a portion of the wast horde of Singphoos, that inhabit the mountainous districts of Northern Assum, and stretch round the north of Burns into Western China. They extend not only all along the Northern Frontier, but dip down Southward wherever the mountain ranges lead them, and nearly as far south as the latitude of Mandalay.

and to the siege of large towns; and the local Government, receiving no assistance from Pekin, finally succumbed, the insurgents became supreme, and a separate Panthay Government was established with its Head Quarture at Tali or Talifoo, then only a city of secondary importance, but where the Mahomedan element had always been very strong. Feeble attempts have since been made, from time to time, to recover the lost Province, by the despatch of Imperial Troops from the Capital; but the Chinese Government has nover been able to make head against the Panthays; and the troops sent have generally been repulsed, before they could even penetrate within the Yunan frontier.

"The present Mahomedan Government of Yunan is presided over by a military chief styled Sooleman by the Panthays, and Tuwintsen by the Chinese. He has assumed the insignia of Royalty, by formal instalation on the guidee, and by the exclusive, and prerogative use of yellow clothing and appartenances. This chief or king is assisted by four military and four civil ministers, the principal one of whom is established at Momein, a large town close to the Shan irontier, west of Yunan. There appears to be little departure, in the matter of administration, from the old form of Chinese Government, except being more military in its character. Taxation is extremely light, being restricted, as far as can be understood, to a moderate assessment on land.

"The Panthays are Mahomedans of the Sconec sect, and pride themselves on their Arab descent; many of them are able to converse in
Arabic, and their prayers are all in this language. They have
mesques or musicide of the true Moslem type, and are fanatical and strict
in their religious performances; as far as I have been able to assertain,
however, there is no trace of any religious zeal, or motive, as the
origin or pretext for the present rising of the Panthays against Chinese
rule. The Chinese are generally tolerant of all religious persuasions,
and unlikely to cause irritation to the Mahomedans by any interierence with their religion. The Buddhist, wherever found, is untrammeled
by conventional dogma, and far less imbued with the odium theologicum, or that contemptuous abhoreence of all creeds and outtoms other
than his own, than is the case with other natives of the east, of

whatever creed or denomination. The dress of the Panthays is in accordance, for the most part, with Chinese habit; though many of them cut their hair to a certain length, and allow it to fall back on the nape of the neck. They also wear, in many instances, a distinctive turban of more ample form than in use amongst Chinese. They are fair, tall, and strongly built men: are an interesting race or community of people: and after twelve years of absolute government in Yunan, it is not improbable that their future independence is secure.

"Panthay traders state that, during the past year, an embassy was received from the Emperor of China, in which the Imperial Government stand for a cossation of hostilities, and volunteered to code Yunan to the Panthays, provided they would come to terms, and commit no further acts of aggression on neighbouring Provinces. The offer it is said was indignantly reinsed, and the Embassy was obliged to return to Pekin, without accomplishing its object.

This, if true, bodes evil to our future intercourse with China through Yunan by Railway or otherwise. The trade via Bamo between China and upper Burma, amounted in 1854 (the year before the Mahomedan insurrection) to half a million of pounds sterling. No caravans from Sechuen or other Provinces of China, since the establishment of Mahomedan rule, have passed through Yunan; and trade by this route has almost altogether ceased. But with Yunan alone, a large trade was formerly carried on, and it is hoped that the caravan route, at any rate, may be shortly re-opened. It possesses the unusual advantage of having been used for centuries as a line of traffic, and has maintained its vitality hitherto among all the disturbing influences of the flow and chb of the Chinese and Burmese power, and is a cogent proof of the necessity for interchange of commodities between the respective countries.

An apparent interminable fend has doubtless arisen between the Manchur dynasty, and the Mahomedan population of China which may, probably combined with other numerous causes, ultimately end disastrously to that dynasty. How long it will take for the Chinese Government to disintegrate and reappear under a new form; what effect such a change would have on the independent Mahomedan population of the Western Provinces; and whether the change will be brought about by them, are questions which may probably affect a future generation, but are nevertheless full of interest to neighbouring Governments, and political speculators of the present day.*

On the proposition of the President, the special thanks of the meeting were voted to Col. Fytche,

Major Lees exhibited a bronze hooksh which had been dug up on his plantation in Cachar, and was very different from anything now used in the province, while in point of manufacture it is far superior to any now manufactured there.

He also read a letter from Messrs. Johnson and Drew of Cashmere, in which the writers announce the proposed establishment of an Himalayan Club for collecting, interchanging and publishing scientific and general information concerning the Himalayan range.

The President undertook to refer the letter to council.

LIBRARY.

The following additions were made to the Library since the last meeting in November.

a The names of Donors in capitals.

Presentations.

Progress Report of Forest Administration in the Central Provinces, 1866-67,—The Government of India.

La Gurlande Préciense des demandes et des Réponses Publice en Sanskrit et en Tileckan et Traduite Pour La Première Fois en Français by Ph. Ed. Foucaux.—The Translator.

Journal Asiatique, Tome IX .- THE ASIATIC SOCIETY OF PARIS.

Professional Papers on Indian Engineering, No. 17,-The Entron.

Sitzungsberichte der Königlich Bayerischen Akademie der Wissenschaften Zu München, 1866 II. Heit II. III. and 1867 I. Heit I—IV.— The Royal Academy of Sciences of Munich.

Abhandlungen der Mathe—Physika, classe der Königlich Bayerischen Akademie der Wissenschaften Bund XXXVII, Abth, L.—The Royal Academy of Sciences of Municip.

Abhandlungen der Histor, classe der Königlich Bayerischen Akademie der Wissenschaften, Band XXXV. Abth. II.—The ROYAL ACADEMY OF SCIENCES OF MUNICH.

On the relations of Tanalia Philopotanus and Paladomus with a

review of the Cingalese species of the latter genera by H. F. Blanford, Esq. F. G. S.—Tur Avrnon,

Ueber die Branchbarkeit der in verschiedenen europäischen Staaten veröffentlichten Resultate des Recrutirungs-Geschäftes zur Beurtheilung des Entwicklungs-und Gesundheits-Zustandes ihrer Bevölkerungen von Dr. Th. L. W. Bischoff,—The Author.

Lataife-T-ma'arif auctore Abu Mangur Abdolmalik ibn Mahommed ibn Isma'il at Tha'alibi quem librum E Codd, Leyd. et Goth-Edidit P. De. Joug.—The Entron.

Zeitschrift der Deutschen morgenländischen Geselchaft: herausgegeben von den Geschäftsführern, Band XXL Heft III.—Propesson Dn. L. Karm.

Indische Studien X .- THE Engron.

Journal of the Royal Geological Society of Ireland, Vol. I. pt. 8.— The Society.

Moteorological Report for the Panjanb, 1866.—The Government of the Penjans.

Annual Report on the Administration of the Bengal Presidency foot 1866-67,-The Government of Bengal.

Report of Native Papers for the week ending the 9th November, 1867.—Banu Rayesdrarala Mitra.

Rahasya Sandarbha, Vol. IV. pt. 43.—Babu Rajendralala Mitra.

Purchased.

A Treatise on Natural Philosophy by Thomson and Tait, Vol. I. The Journal of Sacred Literature, October, 1867.

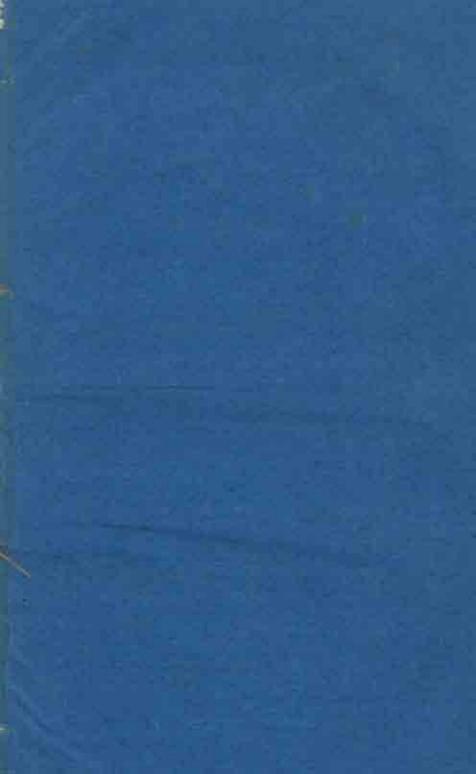
The Annals and Magazine of Natural History, October, 1867.

Revue des Deux Mondes 15th September, 1867.

Revue it Magasin de Zoologie, November, 1867.

Deutsches Wörterbuch V-7 Comptes Rendus, Nos. 10, 11, 12.





Prospectus

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