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THE JOURNAL

HELLENIC STUDIES



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THE JOURNAL

OF

HELLENIC STUDIES

25985

VOLUME XXXIX. (1919)

938.005 J. H. S.



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The Society for the Promotion of Roman Studies.

to Bloomsbury Square, London, W.C. 1

Premiest | PROFESSOR J. S. REID, D.Lim.

The Society embraces the listony, not not such archaeology of Rome, Italy and the Roman Empire, down to about A.41. 700-

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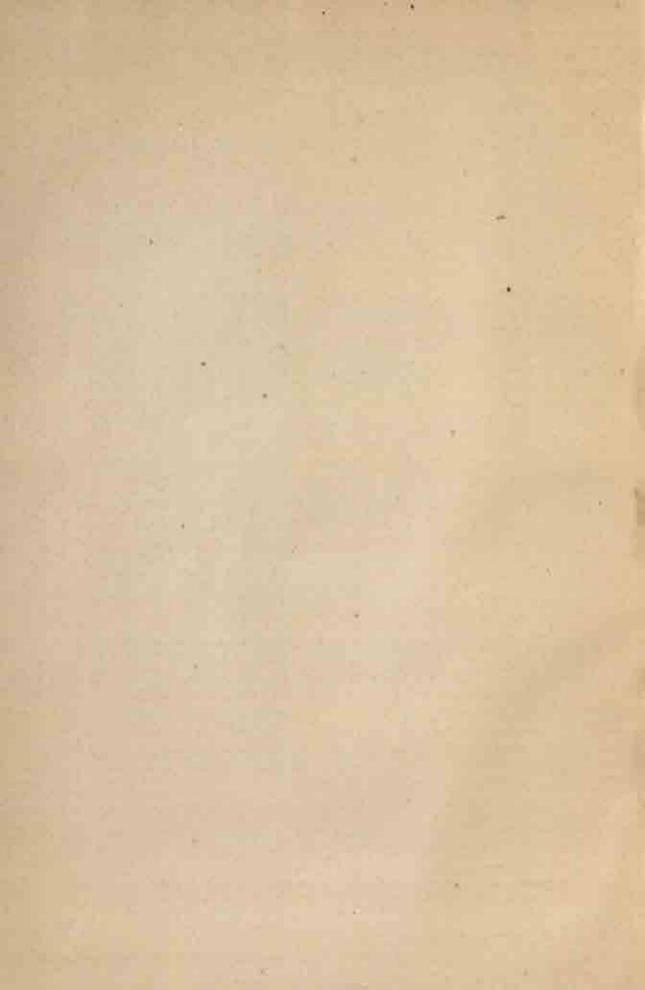
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THE objects of the Classical Association are to promote the development and maintain the well-being of classical studies, and in particular (a) to impress upon public opinion the claim of such studies to an eminent place in the national scheme of education; (b) to improve the practice of classical teaching; (c) to empourage investigation and call attention to new discoveries; (d) to create opportunities for intercourse among lovers of classical learning.

Membership of the Association is open to men and women alike. The annual subscription is 5s. (life composition, £3 15s.), and there is an entrance fee of 5s. (not charged to Labraries). Members receive a copy of the annual Proceedings of the Association and of The Year's Work in Classical Studies (both post free). They may also obtain the Classical Review and Classical Quarterly at the reduced price of 7s, and 9s, a year respectively (post free), provided that the subscriptions he pand before January 31st in each year. Subscriptions sent in fater than that date must be at the rates offered to the general public, viz., 71 fed. for the Classical Review, 128. 6d for the Classical Quarterly, or 188. for the two Journals jointly, post free in each case.

Inquiries and applications for membership should be addressed either to the Hon. Treasurer, Mr. E. Norman Gardiner, 2, The College, Epsom; or to either of the Hon. Secretaries, Professor Slater, 4, Chalcot Gardens, London, N.W. 3, and Professor Ure, University College, Reading; or to the Hon. Secretary of any of the district Branches-viz., Miss Hilda Livesey, 155, Oswald Road, Choriton-cum-Hardy, Manchester; Miss M. W. U. Robertson, The University, Edmand Street, Birmingham; Mr. Kenneth Forbes, The University, Liverpool; Mr. E. P. Barker, 426. Woodhorough Road, Nottingham; Miss Wilkinson, Badminton House, Clifton, Bristol; Mr. Basil Anderton, The Public Library, New Bridge Street, Newcastle-upon Tyne; Miss E. Strudwick, M.A., City of London School for Girls, Carmelite Street, E.C. 4; Miss M. E. Pearson, University Registry, Cathavs Park, Cardiff; Mr. P. W. Dodd, The University, Leeds; and Professor Dawson, Northcote House, Apollo Bander, Bombay.



RULES

OF THE

Society for the Promotion of Bellenic Studies.

- 1. THE objects of this Society shall be as follows:-
- I. To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Hellenic periods, by the publication of memoirs and unedited documents or monuments in a Journal to be issued periodically.
- II. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions MSS., works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archaeological and topographical interest.
- 111. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archæological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President, Vice-Presidents, a Council, a Treasurer, one or more Secretaries, 40 Hon. Members, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be ex officio members of the Council.
- 3. The President shall preside at all General, Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside.
 - 4. The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conducive to the objects of the Society; in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty.

憋

- 5. The Treasurer shall receive, on account of the Society, all subscriptions, donations, or other moneys accruing to the funds thereof, and shall make all payments ordered by the Council. All cheques shall be signed by the Treasurer and countersigned by the Secretary.
- In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.
- 7. The Council shall meet as often as they may deem necessary for the despatch of business.
- Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- 9. Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- 10. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- 11. The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- tz. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council, and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council
- 13. Two Auditors, not being Members of the Council, shall be elected by the Society in each year.
- ta A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.
- . 15. The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- 16. The President shall be elected by the Members of the Society at the Annual Meeting for a period of five years, and shall not be immediately eligible for re-election.
- 17. The Vice-Presidents shall be elected by the Members of the Society at the Annual Meeting for a period of one year, after which they shall be eligible for re-election.

- 18. One-third of the Council shall retire every year, but the Members so retiring shall be eligible for re-election at the Annual Meeting.
- 19. The Treasurer and Secretaries shall hold their offices during the pleasure of the Council
- 20. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council.
- 21. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held.
- 22. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 23. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 24. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 25. The names of all Candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their next Meeting the Council shall proceed to the election of Candidates so proposed; no such election to be valid unless the Candidate receives the votes of the majority of those present.
- 26. The Annual Subscription of Members shall be one guinea, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 155., entitling compounders to be Members of the Society for life, without further payment. All Members elected on or after January 1, 1905, shall pay on election an entrance fee of two guineas.
- 27. The payment of the Annual Subscription, or of the Life Composition, entitles each Member to receive a copy of the ordinary publications of the Society.
- 28. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.

29. Members intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1; otherwise they will be held liable for the subscription for the current year.

Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.

31. The Council shall have power to nominate 40 British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten.

32. The Council may, at their discretion, elect for a period not exceeding five years Student-Associates, who shall be admitted to certain privileges of the Society.

33. The names of Candidates wishing to become Student-Associates shall be submitted to the Council in the manner prescribed for the Election of Members. Every Candidate shall also satisfy the Council by means of a certificate from his teacher, who must be a person occupying a recognised position in an educational body and be a Member of the Society, that he is a bond fide Student in subjects germans to the purposes of the Society.

34. The Annual Subscription of a Student-Associate shall be one guinea, payable and due on the 1st of January in each year. In ease of non-payment the procedure prescribed for the case of a defaulting Ordinary Member shall be followed.

35. Student-Associates shall receive the Society's ordinary publications, and shall be entitled to attend the General and Ordinary Meetings, and to read in the Library. They shall not be entitled to borrow books from the Library, or to make use of the Loan Collection of Lantern Slides or to vote at the Society's Meetings.

36. A Student-Associate may at any time pay the Member's entrance lee of two guineas, and shall forthwith become an Ordinary Member.

37. Ladles shall be eligible as Ordinary Members or Student-Associates of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members or Student-Associates.

38. No change shall be made in the Rules of the Society unless at least a tortnight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed.

REGULATIONS FOR THE USE OF THE LIBRARY

AT 19 BLOOMSBURY SQUARE, W.C.

(North.-These Regulations are under Revision.)

- That the Hellenic Library be administered by the Library Committee, which shall be composed of not less than four members, two of whom shall form a quorum.
- II That the custody and arrangement of the Library be in the hands of the Hon. Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.
- III. That all books, periodicals, plans, photographs, &c., be received by the Hon. Librarian, Librarian or Secretary and reported to the Council at their next meeting.
- IV. That every book or periodical sent to the Society be at once stamped with the Society's name.
- V. That all the Society's books be entered in a Catalogue to be kept by the Librarian, and that in this Catalogue such books, &c., as are not to be lent out be specified.
- VI. That, except at Christmas, Easter, and on Bank Holidays, the Library be accessible to Members on all week days from 10.30 A.M. to 5.30 P.M. (Saturdays, 10 A.M. to 1 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation for August and the first week of September.
- VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:-
 - (1) That the number of volumes lent at any one time to each Member shall not exceed three; but Members belonging both to this Society and to the Roman Society may borrow survolumes at one time.
 - (2) That the time during which such book or books may be kept shall not exceed one month.
 - (3) That no books, except under special circumstances, be sent beyond the limits of the United Kingdom.
 - VIII. That the manner in which books are lent shall be as follows:-
 - (t) That all requests for the loan of books be addressed to the Librarian.
 - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
 - (3) That in each case the name of the book and or the borrower be inscribed, with the date, in a special register to be kept by the Librarian.
 - (4) Should a book not be returned within the period specified, the Librarian may reclaim it:

(5) All expenses of carriage to and fro shall be borne by the borrower.

(6) All books are due for return to the Library before the summer

vacation

IX. That no book falling under the following categories be lent out except by special authority:

(1) Unbound books.

(2) Detached plates, plans, photographs, and the like.
 (3) Books considered too valuable for transmission.

(4) New books within, one month of their coming into the Library.

X. That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library.

XI. That in the case of a book being kept beyond the stated time the borrower be liable to a payment of one shilling for each week after application has been made by the Librarian for its return, and if a book is lost the borrower be bound to replace it.

XII. That the following be the Rules defining the position and

privileges of Subscribing Libraries:-

a. Libraries of Public and Educational Institutions desiring to subscribe to the *Journal* are entitled to receive the *Journal* for an annual subscription of One Guinea, without Entrance Fee, payable in January of each year, provided that official application for the privilege is made by the Librarian to the Secretary of the Society.

 Subscribing Libraries, or the Librarians, are permitted the use of the Library and Slide Collections on the same conditions as

Members.

c. A Librarian, if he so desires, may receive notices of meetings and may attend meetings, but is not entitled to vote on questions of private business.

The Library Committee

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*MR. G. D. HARDINGE-TYLER.

MR. G. F. HILL.

*MR. T. RICE HOLMES.

MISS C. A. HUTTON.

MR. A. H. SMITH (Hon, Librarian).

MR. JOHN PENOVRE, C.B.E. (Librarian).

Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the Librarian, at 19 Bloomsbury Square, W.C. i.

[·] Representatives of the Roman Society.

THE SOCIETY FOR THE PROMOTION OF HELLENIC STUDIES.

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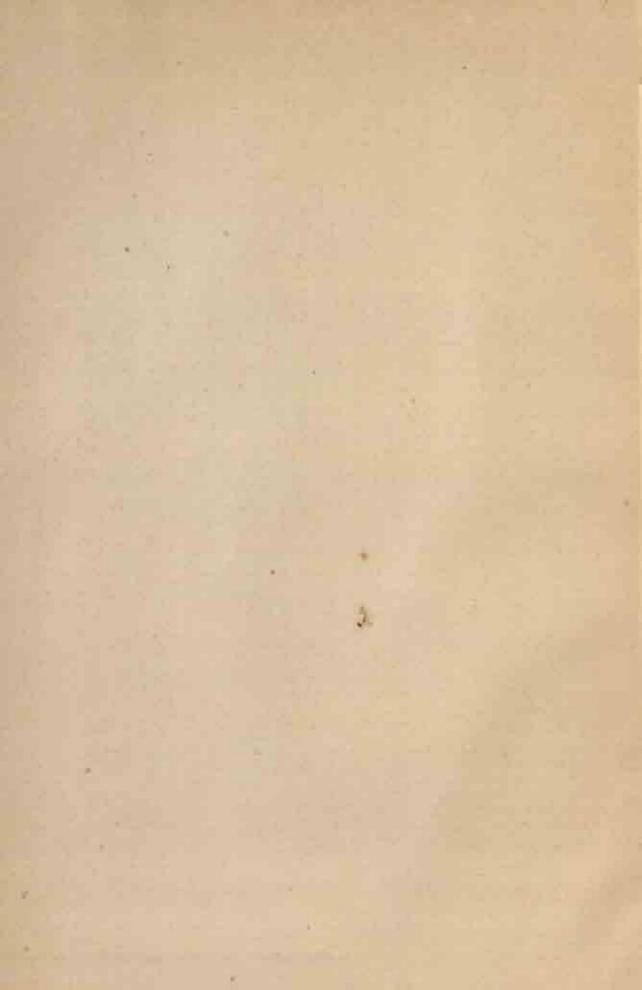
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PROCEEDINGS

SESSION 1918-1919

During the past Session the following Papers were read at General Meetings of the Society:-

November 12th, 1918. Mr. A. Hamilton Smith: The Temporary Wartime Exhibition of the British Museum (see below, p. xx).

February 11th, 1919. Professor Percy Gardner: A Bronse Head of Polycleitan Style (J.H.S. xxxix. pp. 69 sqq.).

May 8th, 1919. Mr. D. S. Robertson: A Greek Carnival (J.H.S. XXXIX. pp. 110 1991).

Mr. J. T. Sheppard: Admetus, Verrall, and Professor Myres

(J.H.S. xxxix, pp. 37 892.).

June 24th, 1919. Mr. Stanley Casson: Antiquities discovered on the Salonika Front (see below, p. xxviii).

THE ANNUAL MEETING was held at Burlington House on June 24th,

1919, Dr. Walter Leaf, President of the Society, in the Chair,

The President announced the election of Sir F. G. Kenyon, K.C.B., D.Litt., P.B.A., as President of the Society, and the re-election of the Vice-Presidents. Officials and retiring Members of Council of whose names a printed list had been circulated.

Mr. George A. Macmillan, Hon. Secretary, presented the following

Annual Report of the Council :-

THE Council beg leave to submit the following Report for the Session 1918-19.

Since the last Annual Meeting the nation has passed through a period of intense anxiety, ending in the exultation of victory and followed by a natural reaction after the strain of over four years' continuous fighting.

The work of reorganizing the national life has proved more complicated than was anticipated, demobilisation both of men and of materials proceeds but slowly, and many of the Society's Members have not yet resumed their normal occupations. The Council felt that in these circumstances it was wiser to wait awhile and take breath before attacking their own particular problem.

of reconstructing and of making good the losses caused by the war. They have therefore no fresh developments to report: there has been no further response to their appeal for records of travel during the 18th and 19th centuries. Undoubtedly many collections of such records exist; the recent discovery of the original drawings made by Adam Buck for a projected publication of Greek vases proves this, and the Council hope that Members will not forget the importance of saving such documents from destruction, even when they have no money value. There is another class of records, also of great value, but of recent date, for which an appeal has been made by the Archaeological Joint Committee, namely notes, sketches and photographs made by those on active service especially in the Near East, the Levant and Mesopotamia. The Council desire to emphasize the importance of such memoranda, if only as signposts to guide scientific examination at a later date.

The thanks of the Society are again due to Mr. G. F. Hill and to Miss C. A. Hutton for voluntary work in editing the Journal and managing the Library during the continued absence of Captain E. J. Forsdyke and Mr. John Penoyre. Captain Forsdyke will shortly be demobilised and when he returns to his work at the British Museum will resume his editorial duties. The Journal will this year once more be published in two parts, but both will be issued together as one volume. In this way an appreciable sum is saved in packing, etc.

Mr. Penoyre severed his connexion with Lady Roberts' Field Glass Fund in April, and at the same time closed his own organization for the supply of comforts to H.M. Forces in the field. His health has suffered severely from over-fatigue, and as Miss Hutton is able to remain in charge of the office work until after the Summer Vacation the Council have given Mr. Penoyre leave of absence until September. When F. Wise is demobilised he will return to his post in the Library, and it is hoped that by the autumn it will again be open in the middle of the day.

Changes on the Council, etc.—By the death of Sir John Mahaffy, Provost of Trinity College, Dublin, the Society has lost one of the fast diminishing number of its original founders, and a scholar who, by his long series of books on Greek History, Literature and Antiquities, had done much to promote the objects which the Society has always had in view. By his masterly edition of the 'Petrie Papyri' he had also made his mark in the cognate field of Egyptology. The death roll for the past year also includes the names of Dr. Edwin Freshfield, Sir Hermann Weber, Sir Edward Pry, the Rev. E. C. Selwyn, of an American scholar, Professor Lloyd Andrews, and of Lieut. A. C. Eaton (8th Batt. Bedfordshire Regt.)

The President of the Society, Dr. Walter Leaf, retires this year on the expiration of his term of office, and the Council desire to place on record their appreciation of the valuable work which he has done for the Society. His tenure of office has coincided with the duration of the war, a period

killed in action.

very bare of humanistic interest but full of orgent national claims on his powers. The Council hope that as these lessen he will find time for the edition of Strabo projected before the war, the lighter side of which has formed the subject of two of his interesting Presidential addresses.

The Council has pleasure in nominating Sir Frederic Kenyon,

Director of the British Museum, for the vacant office of President.

No additions to the number of Vice-Presidents are recommended this year, nor any changes on the Council. The following members retire by rotation and being eligible, are nominated for re-election — Messrs. A. M. Daniel, R. M. Dawkins, J. P. Droop, C. C. Edgar, Talfourd Edy,

T. Fyfe, P. N. Ure, Miss J. E. Harrison, Mrs. Arthur Strong.

The Hon. Secretary, Mr. George Macmillan, who has acted in that capacity since the foundation of the Society forty years ago (the Inaugural Meeting was held on June 19th, 1879), has intimated his desire to be relieved of his office as soon as a suitable successor can be found. The Council have received this intimation with the deepest regret. Mr. Macmillan's services to the Society have been invaluable; it is hardly too much to say that it is to him more than to any man that the Society owes its continued prosperity and even its existence. After Mr. Macmillan's forty years of continuous work, the Council feel that they have no right to refuse his request, but they are glad to think that he has consented to continue in office for the present, and that for the moment it is not necessary for them to appoint his successor.

Archaeological Joint Committee.—The Council nominated two representatives (Mr. A. H. Smith and Mr. G. F. Hill) to serve on the Archaeological Joint Committee, formed at the invitation of the Foreign Office by the British Academy in conjunction with the leading archaeological Societies, to deliberate on questions connected with the antiquities of the countries in the Near East which have been opened up by the War, The efforts of the Committee have been directed mainly towards procuring improved legislation on antiquities in the countries affected. especially with a view to interesting the people in their preservation and to modifying the harsh and repressive provisions of existing laws, the chief result of which is to encourage destruction and smuggling. A draft of the general principles which should be observed in such legislation was presented to the British and American Delegations at the Peace Conference, in the hope that they might be accepted by the League of Nations and enforced in the Peace Treaty with Turkey, and that all nations who should receive mandates to govern portions of the former Turkish Empire might be required by the League to conform to them; and a modification of this draft containing all its essential provisions, was adopted by an International Committee in Paris to the same end. How far it will be incorporated in the Peace Treaty is not yet known. The Committee's further recommendation that the antiquities of the countries which will remain under Turkish rule should be administered by an International Commission was not considered feasible by the International Committee A second piece of work, the drafting in full detail of a Law of Antiquities. for Palestine, was undertaken at the request of the Governor of Jerusalem. This has been completed, and the draft, it is believed, has been found acceptable in all essentials and will in time become law; it is boped that the Law for other lands to be controlled by Great Britain may be drawn on the same lines. Thirdly, the Committee has made arrangements for the collection of records of all kinds relating to antiquities in the countries with which it is concerned; the results of the appeal for such records have so far not been great, but are likely to increase as time goes on The Hellenic Society will be the natural depository for records relating to Greek antiquities collected by the Committee. Finally, it is necessary to record a failure. The Committee's appeal to the Government to endow a British Institute of Archaeology in Egypt has met with a refusal, on the ground of the critical condition of Imperial finances at the present time. It is needless to add that the Committee intends to renew its efforts in this direction when circumstances appear to be more favourable.

General Meetings.-Three General Meetings have been held during

the past Session.

At the first Meeting, held on November 12th, 1918, Mr. A. Hamilton Smith read a paper, illustrated by lantern slides, on 'The Temporary War-time Exhibition of the British Museum.' Mr. Smith explained that this exhibition was primarily intended to give our overseas visitors some idea of the treasures of the Museum, but as all the more important of these had been placed in safety, recourse was had as far as possible to casts; for this purpose they had used the madrs forms, or stock casts made of every suitable object in the Museum. In this way an exhibition of the Eigin marbles was arranged, and the illusion was much helped by the skilful way in which the casts had been painted over the protecting varnish. One of the slides showed a view of the Elgin Room with the metopes encased in asbestos packing, as they were built into the wall and could not be moved. At the North and of the room were arranged cases containing selections of Minoan objects, ancient armour, Greek vases, objects used in daily life, and a long series of electrotypes of coins, An exhibition of busts, and of reliefs, etc. connected with Roman warfare was placed in another gallery, and the Grenville Library was devoted to books, drawings, and papers of special interest to the overseas soldiers, Mr. Smith added that over 2000 people visited the Museum on August 3rd. the first day on which the exhibition was open, and that there had been a continuous stream of visitors ever since.

At the second meeting held on February 11th., 1919, Professor Percy Gardner read a paper illustrated by lantern slides, on "A Bronze Head of Polycleitan Style," a recent gift to the Ashmolean Museum. An interesting discussion followed the paper, which will be published in the forthcoming volume of the Journal. Professor Gardner was warmly congratulated on this beautiful addition to the Ashmolean Museum. At the third meeting held on May 18th, papers were read by Mr. D. S. Robertson, on " A Greek Carnival," and by Mr. J. T. Sheppard on " Admetus, Verralland Professor Myres." Both papers will be published in the next volume of the fournal.

Library, Photographic and Lantern Slide Collections,-The number of visitors to the Library during the past year was 539, the number of books borrowed, 531. One hundred and four books and pamphlets have been added during the year; most of these are gifts, as the Library Grant was suspended at the beginning of the war. Among these gifts special mention should be made of several volumes of early travel in the Levant, of a set of excerpts presented by Mr. G. F. Hill and of a copy, complete to date, of the illustrated publication of the contents of the National Museum at Athens

The Council acknowledge with thanks gifts of books from H.M. Government of India, the Trustees of the British Museum, the Ministry of Reconstruction, the Svenska Humanistik Förbundung of Upsala, and the following donors: M. Andreades, Mr. W. H. Buckler, the Misses Bulwer, Admiral Sir R. Custance, G.C.B., Mrs. Arundell Estaile, Miss Joan Evans, Capt. E. J. Forsdyke, Mr. E. R. Garnsey, Dr. Granville, Dr. A. W. de Groot, Mr. F. W. Haslinck, M. B. Haussoullier, Mr. G. F. Hill, Mr. J. C. Hoppin, M. K. J. Johansen, Sir F. G. Kenyon, Mr. J. G. Milne, M. Remantas, Prof. Rhys Roberts, Dr. A. G. Roos, M. A. Six, Dr Parkes Weber, and M Zacharias

The following publishers have also presented copies of recently published works; Messrs. George Allen & Unwin, E. Arnold, B. H. Blackwell, The Faith Press, The Gresham Publishing Co., Messrs. Longmans, Green & Co., Methuen & Co., Mr. Flumphrey Milford, and the University Presses of Oxford and Cambridge, and of Chicago and Yale.

The number of slides horrowed during the past session is 1327, a slight nereuse on the figures for last year; the number purchased is 350, nearly three times as many; these include two large orders for S. Africa and the United States. Owing to the continued increase in the cost of materials it has been necessary to raise the price of slides purchased. The cost of these, however, remains considerably less than the current price.

The Council desire to express their special thanks to the Hou. Margaret Wyndham and to Capt S. Casson for large collections of photographs to the Royal Numismatic Society for a generous gift of slides and negatives, also to Mr. Dundas, Mr. F. W. Hasluck, Mr. G. F. Hill, and

Mr. Arthur Smith for further gifts of slides, etc.

Finance, -As was foreshadowed in the last report it has been decided to close the accounts each year at December 31st instead of the end of May as heretofore, and the accounts now presented, therefore, cover only the seven months from June 1st to December 31st, 1918. By making up the accounts annually at this time it will be possible in future to present a more accurate statement than was the case under the old system, although for the current year the figures are necessarily incomplete.

So far as the present statement is concerned there is nothing of special interest to mention. The expenditure has been kept down to the lowest possible point, but in spite of this, and the saving gained by issuing the fournal in one complete volume for the year there is a deficit on the Income and Expenditure account, and, so far as can at present be seen, the current

year will also show a considerable deficit.

The Council are now compelled to look ahead, and as far as possible consider whether it will be possible in the near future to resume all the Society's activities on the same scale as before the war. During the past four years the Library grant has been suspended, but if the Library is to be as useful to members in the future as it has been in the past the grant must be renewed and an effort made to overtake the arrears which have accumulated during the war. In this connexion it must be borne in mind that books are much more expensive, and that with the cost of labour and materials as at present the Journal will cost more than twice as much as in pre-war days. When it is remembered in addition to this that the revenue from subscriptions is nearly £150 less, the financial outlook for the future might be regarded as difficult. It is hoped, however, that the advent of peace will see an increase of interest in the objects and work of the Society, and a considerable addition to the membership roll. The high-water mark was reached a few years ago when the list ran to about 950 names. The number now on the books is about 800, and unless the work of the Society is to be considerably restricted it is essential that the tall in membership should be made up immediately and the number of a few years ago exceeded in the near future. This can be achieved only by the active assistance of members in introducing candidates from among their friends. During the last twelve months some twenty new members have been elected, which is very encouraging in view of the difficulties of the time, and the Council believe that with the co-operation of the members in this direction the financial difficulties will be overcome.

In presenting the report MR. MACMILLAN took occasion to refer to the death of Sir John Mahaffy, one of the Founder Members of the Society. He also referred to the services rendered to the Society during his term of office by the retiring President, Dr. Leaf, not the least of which were the inspiring addresses to which they had been privileged to listen at the Annual Meetings.

Mr. Macmillan concluded by drawing attention to the request of the Archaeological Joint Committee for drawings, photographs and notes made by Members who had been serving in the Near East and Mesopotamia.

The President then delivered the following address:-

The time has come for me, at the expiration of my term of office, to resign into more capable hands the Presidency of this Society with which you so generously invested me five years ago. I retire with the sense of the profoundest grafitude both to the Society and to the officers and Council with whom it has been my privilege to work. Our name in particular you will allow me to mention specially on this occasion, that of one of my eldest friends, our Honorary Secretary, Mr. Goo. Macmillan. You will see by the Report that he has expressed a wish to be relieved of the office which he has so ably filled for forty years. He is one of the few remaining original members of the Society; he has been its first and only Honorary Secretary. Only those who have served on the Council can fully appreciate the debt which we owe to him and his devotion to our interests for all this time. Presidents come and go; but he has survived them all, he, more than any man, has not only seen the Society into the world, but has fostered and guided it by his business capacity and his enthusiasm for all that is meant by Hellenism. The Society can hardly seem the same without him at his post. He has indeed earned the right to be rude donatus; but we are all glad to know that he does not press his resignation at the moment. We all cherish the hope that his natural affection for what he may fairly regard as his own offspring may yet nerve his heart for further service.

My own term of office has exactly coincided with the duration of the war. Elected on June 23, 1914, the very day of the Serajevo assassinations, I retire on

the day which assures the definitive conclusion of peace.

It has indeed been an auxious period; and our efforts, always under the shadow of the great preoccupation, have been directed to holding the ground which the Society has won through more than thirty years of work, as the forms of Greek studies in Great Britain. In that at least I hope that we have succeeded. We have at least maintained the two chief functions by which we energise, our meetings and our Journal; and I hope we may justly claim that we have maintained them at a level worthy of our past tradition. The Editors of the Journal will, I am sure, support me when I say that the difficulty they have had to face has not been that of any lack either in the quantity or quality of the contributions available; what they have had to struggle with has been the purely external and material obstacle of lack of paper, with the other troubles incidental to the universal rise in cost of publication. We have handed on our inheritance undiminished, and save for allusions in our Reports our success us will see no faltering in the work which we have been able to produce and place on record during the vicisanudes of the tremendons struggle. I am not sure that they may not even see an enhancement of effort, The great outburst of energy which the war has called forth has, if I mistake not, shown itself in increased production even in fields remote from the war; the stimulus given to mechanical output has extended itself with sympathetic intensity to intellectual effort; and has brought about, not a juded lassitude, but a redoubled activity in literary and scientific fertility of thought. It has certainly extended the general belief not only in education but in research; we have found that we can do far more than we ever believed possible, imhistrially and mentally alike. The intellectual standard has I think, been raised; our task is to see that it is not again lowered, and to establish irrevocably the step which has been taken towards the evolution of the superman. We are in the throes and the pangs are distressing : but I feel that there is new life to come. And I have never lost my confidence that in that new life our own Hellenic studies will assert the position that belongs to them of right.

To me at all events Hellenism has never been more precious or more sustaining than during the last five years. The affairs with which I have had to deal have been than during the last five years. The affairs with which I have had to deal have been anxious and often trying; I doubt if I could have got through them had I not had the resource of Greek life and thought to which I could turn for relief. You

will I hope, excuse me for this personal testimony to Fielleniam; I feel sure that there are many others who will be able to say the same. While this is true,

Hellenism will assure its own future.

But if Hellenism is to assert itself, as I believe, it must not be content with morely holding its ground; it must give proof of vitality by fresh methods of research. It must recognise the new age by holdly scrapping so much of its present capital as is worn out. It needs at once new materials and new ways of thought. It must not be a back eddy beside the main current of contemporary thought; it must contribute its affiund, or it will be drained dry to make room for something else. Historical Science in the wide sense has taken its place in moulding the course of the war; it is at the moment still more actively and closely employed in moulding the peace. Hellenests must claim the right of Greek thought to be at the foundation of history; and they have to show how it is still living. The old bles that Helleman was a miraculous product, self-generated, blossoming into its full and dazzling bloom in a couple of centuries to perish in another two, a department of human history which could be treated by itself as a piece of pure art or at best a beautiful museum-that idea has indeed passed away. But it has left its effects befund it, and the methods with which it was discussed and analysed are still working, with a sap like that of a decaying body, to poison where it once nourseled.

Will you allow me to turn for a moment to my own special subject, Homen-A right understanding of the cidest Greek document is evidently of paramount importance to our comprehension of all Greek history. It is the best link in our possession between Helicoic civilisation and the older worlds of high culture which have been revealed in Greece, at Troy, and above all in Crete. The understanding; that a new phase has opened; and in my opinion the methods of the nine-tenth century are now obsolete and incenful. I have used them and believed in them for a time; but for nearly twenty years now I have lest all interest in the old controversies, and have endeavoured to turn my steps into new paths. The problem of the composition of the Thad has proved instable by any analysis which the nineteenth century could oversit. If it is ever to be solved I believe that it will be overcome not by a frontal attack, but as an incident of some outflanking movement. The most promising outlook at the moment lies, I think, in a combination of geography with archaeology.

This is the line which I have emicavented to take, led to it, is I hasten to add by M. Victor Bérard and Sir William Rainsay. All that I can hope to have done is to have peaked a little way along it; but I believe that in better hands than mine, it will prove profitable. Whether I am eight or wrong in the conclusions I have drawn matters not a jot, any none than it matters that in my opinion Dérard's conclusions are wrong. That does not affect the mathed, nor the deld which I arknowledge to my predecessors. Where I believe we are right is in trying to confront Homer with facts, instead of wasting our time in wire-drawn hypotheses which can be proved and disproved with equal confidence and organize. And the method needs to be applied out only to Homer but to all things Greek; all must be confronted with the realities of life. The spade-work of more philology has been

done and well done; now is the time for the applied science

In this task fingland has the lead, and it is for English Relienant to keep it Long before the war I had some to the conclusion that German Homeric scholarship was hopelstly effects and sterile. That conviction has now been elenched by the last and most authoritative atterance of its effect supresentative, the Rector Magnificus of Berlin University, Herr Professor Dr. Ultich von Wilamowitz-Möllendorf. I have read his work Die Hats and Homer, published in 1916; and as I read I rubbed my eyes to make sure that I was in the twentish century; it seemed like an each of thirty years ago. Then it would have been a noteworthy

production, and would have set us all by the ears. To day it seems only one sad reminder among many of what Germany might have been if she had read the signs of the times instead of losing her bearings, moral and material in the mist of her own conceit and megalomania. Believe me, German Homerio scholarship to-day is thirty years behind the times, and will have a hard and humiliating struggle before the lost ground is made up. It is for England to maintain the lead she has got. It it is still allowable to quote Faust, I would say to English scholars.

- Was willst du dich das Stroh zu dreschen plagen?
 Lass du das dem Hexm Nachbarn Wanst.
- Why wilt thou plague thyself with threshing straw?
 Leave that to Neighbour Tunbelly.

But such progress in Greek scholarship as I look forward to depends largely on the acquisition of new material. The advances made in recent years have all sprung from the work of the excavator and explorer. This work has been undely interrupted by the war; if more light is to come, the task must be taken up again.

The war has been in this respect almost, but not quite, wholly destructive. Some positive results have been gained, as we shall bear presently from Captain Casson; we welcome them with a certain sense of relief, and consider our cives fortunate to have had in Captain Casson; a student of the British School at Athens—shortly. I hope, to be its Assistant Director—a trained member of the Head-quarter Staff of the British Forces at Salonika. We have had too, in various capacities and mostly in naval uniform, the assistance at the sent of war of such able and trusted archaeologists as Hogarth, Ernest Gardner, Carr Bosanquet, Dawkins,

Myres, Wang and others.

But, also, we must recognise that excavations carried on by sappers under fire, and still less excavations performed by the explosions of 16-inch shells, are little suited to the exigent requirements of modern archaeology. A prehistoric turnulus lends itself admirably for the formation of a dug-out, and is perhaps somewhat more promising, though by no means ideal, for exact observation. But apart from this I feel confident that our archaeologists with the Forces have been able to do something towards preventing the needless destruction of ancient monuments. In the early days of the war the Society took pains to make representations to this effect in the highest quarters, and we received assurances that the strictest instructions to this effect had been given to the responsible others. You all know, I do not doubt, that when it was necessary to conduct operations of war in the neighbourhood of the ancient Didyma, Lieut-Commander Myres was sent alcft in an assoplane to direct the gues of the first so that no damage should be done to the runs of the temple of Apollo. We have reason to believe that in this he was entirely successful Nor, I understand, was any harm done to the rums of Hissardik by the shells of the Queen Elizabeth and her consorts. We have at least nothing on our consciences to set off against the outrages which we connect with the names of Louvain and Rheims.

There is, however, one curious addition to the methods of the explorer which is directly attributable to the war. In the May number of the Geographical Journal there is a paper by Gol. Beazeley entitled 'Air Photography in Archaeology. Col. Beazeley there puts on record the discovery of an ancient city on the Tigris, round the modern Samaria. It was a city some twenty miles long and anything up to two-and-a-half miles in width, and must have supported a population of about four millions.' In all probability it would have passed undiscovered but for photographs taken from the air. The traces on the ground were quite unnoticeable; but from the photographs the whole plan became plainly visible, with its wide main streets and branching roads, and the larger properties of the wealthy inhabitants along the river banks. In the centre was a great public garden, in the term

of four double circles tangential to one another, with a large pavilion in the centre. In addition, Gol. Beazeley found a whole system of ancient irrigation by the same means—the main stream, the branching canals, and the regulating buildings by which the flow was distributed. The importance of this may evidently be very great, the advantage of starting the exploration of an ancient site with the plan already plotted can hardly be overrated. It is, I fear, too late to hope that sites in Greece itself can still be discovered by this means; but there is perhaps a faint chance that one of our greatest desiderata, the site of Sybario, might be thus located, and the exploration of it be thereby brought into the region of possibility. The allievial deposit there will. I fear, be too deep to betray the slight differences in the tint of vegetation on which the method depends; but if by some happy chance it were otherwise, our knowledge of extheorementy Hellemism might receive new light only comparable to that thrown by Pompeli on the Graeco-Roman sgc.

But in such a region as Asia Minor the assistance of air photography seems to hold out a great and afform prospect of success. Unhappily the difficulties here

are of another and very grave nature.

You will allow me to cerall the proposal I made to the Society just five years ago. It was that we should undertake the publication of a full commentary on the three books of Strabo dealing with Asia Minor. Though I do not think that I underrated the work to be done, I quite hoped that the task might be finished during my term of office. The Council warmly welcomed the proposal, and no time was lost in making our preparations. A Strabe Committee was appointed the main principles on which the work was to be conducted were agreed, and some specimen pages were printed. This was in the early days when we still foundly hoped that the war could not by any possibility last more than twelve months. Even before the fatal 4th of Augest I had interviewed several of those whose assistance was escential to us, and had begun to plan the division of the provinces.

One principle which we all accepted as fundamental was that no section should be entrusted to anyone who had not personal acquaintance with his territory. One or two large districts. I found, must wait till we could provide for special visits to this end. I could, for instance, discover no one qualified to deal with the interior of Caris. and even before the war I put myself into communication with Mr. Hastock and Mr. Ormerod, in the hope of persuading one or other of them to travel

through the country and undertake the commentary for this region.

Before anything could be arranged, the whole of Asia Minor became fernidden land, and the great preoccupation of the war in most cases precluded the numerous schulars who had volunteered for the work from even tacking the preliminary book-work needed for the purpose. It is therefore my sad duty to tell you that the scheme has been wholly suspended during the war. In my own portion, the sections of Stralso dealing with the Troad, I had, as it happens, the somewhat unfair advantage of having been over the ground with the scheme already in my bead, and with Stralso in my hand. So far as I am concerned, therefore, my part is almost ready, and I can place it at the disposal of the Stralso Committee to decide whether it is worth publishing as a fragment—I may mention that it forms one quarter of the whole—or whether it should wait till better times to take its modest place in a completed whole.

Unfortunately it is impossible to hold our much hope of a completion of the work for a long time to come. Among the unhappy consequences of the war is a deep-scated unrest in the Mahonmedan world, only intensified by the Peace Conference, and what is known of its proceedings. Sir William Ransay, who is of course the backbone of the Strabo plan had been hoping to get out shortly to Asia Minor, and once more set about his great work there. But I regret to learn from him that he hears—and no man is better informed—that at present it would be quite impossible for any Occidental to live and work in Anatolia, so deeply and gravely

is Moslem feeling stirred. The movement is such as to be a grave risk even to the British Empire, with its many millions of Mahommedan subjects. The installation of Italians and Greeks in Asia Minor is hitterly resented, and the prospects of a peaceful setflement of the Nearer East are remote. Under these circumstances, I saddy fear that all scientific investigation of Asia Minor must for the present be indefinitely postponed. If Sir William Ramsay cannot safely work there, no

European can-

In another way too the war has left scars on our science which will not, I fear, be completely healed in our own day. An irreparable blow has been dealt at the sense of international co-operation and tratemity in the advancement of knowledge. Here again our consciences are clear. The blow has not been dealt by us, but by our enemies. Whatever our private feelings may have been, we have put our names to nothing like the infamous manifesto of the og leaders of thought in Germany. These men, eminent in all branches of science, including, I regret to think. Hellouism, pledged their bonour to a series of statements which they cannot have known, or have had good ground for believing, to be true, inasmuch as they have all been proved talse. They have sacrificed their benown as gentlemen, and their bonour as men of science.

Some of them—not, I hope, many—have gone further. Men who had received our hospitality and had lived here with all signs of friendliness and motual honour, have distinguished themselves by attacks on England and Englishmen with a malignity and mendacity which can only be described as ferocious. I will not

mention names; one or two are doubtless known to you

Some of these names still stand on our list of homorry members. It is not for me to say how they should be treated. The Council doubtless wisely, determined to postpone the matter till after the end of the war; and that has not yet come. It is therefore left to my successor to preside over the discussion of the question, and I willingly leave it to his hands. That the outrage which scientific Germany has dealt to science should be either ignered or wholly condened I cannot feel. But I trust that, as I took office with war. I may be allowed to lay it down with a note of peace. There will be a real League of Nations when Germany has made due recompense for wrongs and sued to be admitted again to fellowship. When that is duly done, Germany can again be admitted again to fellowship of science which has insults have forfeited, and it should be on like conditions of apology and proofs of sanity regained. With all my heart I wish that the day may come, and come soon. Humanity cannot afford to wait long.

The President moved the adoption of the Annual Report and Balance Sheet

Professor Gilbert Murray said that his first feeling on reading the Report was one of consternation at the announcement of Mr. George

Macmillan's impending resignation.

He could not imagine the Society without its Honorary Secretary, but took some comfort in the thought that the resignation was not to take place immediately. He desired to convey to Dr. Leaf an expression of gratitude for his address, in which even the most ordinary observer must note the effect of Hellenic culture. His own thoughts were procecupied day and night by the future of this culture, but he felt that if it could be imbued with the broad and progressive spirit which breathed through the President's address, the lovers of Hellenism might look forward with confidence to the future. There was a heavy task before them, they must

be aggressive on its behalf, and much work would fall on the Society whose natural misson it was to champion the cause of the studies which it was formed to promote. He had much pleasure in seconding the adoption of

the Report.

H.E. Monsieur Gennadius in supporting the motion associated himself with what had been said by Professor Murray, both respecting the President's inspiring address, and the resignation of Mr. Macmillan. He, himself, had had the privilege of being intimately connected with the proceedings which led to the formation of the Society, and his connexion with it was one of his proudest recollections.

The President then put the motion, which was "arried unanimously."

A vote of thanks to the Auditors, Messrs C. F. Clay and W. E. F. Maemillan, proposed by Mr. A. J. B. Wace and seconded by Mr. E.

Norman Gardiner, was carried unanimously.

Mr. Macmillan begged leave to return thanks for the very kind words evoked by the announcement of his impending resignation, though in inserting the paragraph in the Report he had not been actuated by the spirit which led Lord Brougham to send a notice of his own death to the Times, in order to find out what people thought of him. It was true that he had asked to be relieved of the Hon. Secretaryship, but when a suitable successor had been found he hoped as Hon. Treasurer still to remain an Official of the Society with which he had been officially connected for 40 years (Applause).

The President then called on Mr. Stanley Casson (iate G.H.Q. Balkan Field Force) to read a paper, illustrated by lantern slides, on Antiquities discovered on the Salonika Front. Mr. Casson shewed an interesting panorama embracing the whole mountain ranges from Lake Doiran to Rupil. The finds described extended from the prehistoric to the Roman age. Most of these are now in the British Museum. A list will be found in the fifth list of Accessions to the Collection of Slides

published in this volume, p. xlvi.

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- f1295F Terracotta allar"; line teneing a ball. Symens. (Mess. of Am. And in Ross. ii pl. 16.

Architectural Argentian from exclusive tample at Falcity Vetras (Olista Castellaria).

- 1254 Poliment. (a) Skotch restoration. (b) Smaller fragments. (P.B.S.R. viiii p. 14, fig. 5.
- * Apollo and 'ephabos,' (is, p. 8, fg. 1, p. 10, fig. 2.)

 Two house: (is, p. 13, fig. 4; p. 15, fig. 6)

 House from the satellizers' (is, p. 22, fig. 10.)

 Terreports hard of the Medium.' Villa Girlia, Rome. 1001
- 1262
- 1247
- 1242
- 1992 Reconstruction of the Gracco-Latte Tumple at Alasti erected in the Villa Ginlia, Rome.
- B565 Terrametra relial * representing the unveiling of Bacchic secon. Louvre Miss. (J.R.S. 11). ng 20 p. 162.1

· - plating subject taken from a reproduction.

- B.F. Vann, Hamiles I in the Garden of the Hesperides Collect, Saint-Ferrior (Mos-Photo Et p Wing no
- R.F. Vam Boy with hoops . (J. H.S. wexvi. pl. 7.) 4589
- 4035 R.F. Vass. Danning sarye." Ratyle in the style of Brygos. (J. H.S. resxin pl. to 1
- 1363 Tyliana, Minoan framo from: A state fan (Rich. Arch. 1912, pl; 20.)
- Ornaus Egyptian portrail, impressionist style. Ny Carleberg Man. (Est. Arch. 1915, pt. 30). Bg. 17.
- 9550 Gald and ring of Value 1: 10 xms Treasure 1
- 1243-1246 Four down of the Tenna Cautolina. Rome, Max. Commercanci.
- 5298 Seything combat Silver quiver cans found at Nicolnight.
- 279 Inc. Decree of Oropou, 240 a.c. Elgin Call. (B.M. Peerr, ev. A.)

COINS.

Towns, &c.

- 9502 Abydon, Jr. Alinos, R. Sagalesson & Terrores Abermadrine. (N.C. 1917, pl. 2, 5, 4, 1.5)
- 9-155
- August, E. Cilinan annall, Elama, E. (N.C. 1917, pl. 2, 202).

 Alinds, E. Abydos, E. Sagalasson and Tenuma Alexandrina (N.C. 1917, pl. 0659 3, Like
- 9519 Athens, R and E. Tanagra, bailou proof. (N.C. 1917, pl. 1, 4 a ton)
- Autocane, Lampsons, F. Cyroens, Et. Jonim uncertain, M. (N.C. 1917, pl. 9550
- Ottletan small, Elasonia, R. Aeges, R. (N.C. 1917, pl. 2, 1018.) 8355
- Ocoton, Syrmuse, Al. Etraria, A. (N.C. 1917, pl. 1, 1, 1) P517
- Oysions, H. Ionian muestiain, .P. Lumpanus, Antonne, & (N.C 1917, pl. 9550.
- 9555 Blaeness, Cilinian small, Jl. Asgross, At. (N. C. 1917, pl. 2, 10 11)
- 9517 Etruria, E. Creton, Symone, R. (M.C. 1917, pl. 1, 14.)

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9556 Heraelea Limmilas. (N.C. 1917, pp. 169-179.)
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 9561
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 P571
                            R. (N.C. 1918, pl. 6, 100)
 8679
                                            pl. 6, 45
       Ionian meerinin, R. Cerlene, El Lampsone, Autocane, E. /N.C. 1917, pl.
 0550
                          EL (N.C. 1917, pl. 2, 1)
 0551
 1251 Lampasons, Ai (B.M. Gaide, vl. A. 8.)
       Lugdunum, come of Augustne and Tiberim
$21.67
 9548 Lysimacheta, E. Demetrina Pollicecton, H. (N.C. 1917, pl. 1, 401)
 9568 Metapontum A. (N.C. 1918, pl. 5, 14.)
                     .. (... ... pl. 0, = -4.)
 0572
 9570
                     Tarontum, Al. (N. r. 1918, pl. 5, 111)
 9552
       Sagalassus and Tommus Alexandrina. Abydeo, E. Alinda, R. (A.C. 1917 - pt.
         食,当二五大丁
 9582 Salamie in Cypras and Piradarus, dynast of Caria, gold soinage.
 9577 Side, Andragoras At (Athous.)
 9547 Syracuse, Coston, R. Etmria, E. (N.C. 1917, pl. 1, 10)
 9549 Tanagra, leaden proof. Athens, Rand R. LV.C. 1917, pl. 1, a charge
 9579 Tarentum, Metapostum, Al. (N.C. 1918, pl. 5, 10-01.)
 9553 Temenothyrae, E medallion, [N.C. 1917, pl. 3, 3.)
                                   Dynasts, &c.
 9574
       Andregoras, V and R.
                       Coins illustrating coin-types of Andragoros.
 9575 Heads of Zons, etc., at Lord, Cyrene, Tenos, Metapontum
 9576 Chariot types. (Siden, Romano-Campanian compared with Andragorss type
       Andragorus and Side JR, compared. (Athena.)
 9578 Twisted heads. (Andragona, Herneleia Bith., Marathus, Aradus, 1
       Antiochus I, Attalus Epiphanes, Demetrius I of Syria, At, Orodes II (III). N.C.
 9554
         1917, pl. 3, 45.)
 9040 Arstnow II. R. (C. H.M. Guide, v. A. 29.)
 9554
       Attalus Epiphanes, Antiochus I, Demetrius I of Syria, R. Orodes II (III). (N.C.
         1917, pl. 3, 45]
B2169
       Augustus, typinal soins.
B2172
                 AR, Dennelma, ca. 28 B.C.
           Fab.
32167
                 and Taberius, come of Lugdunum.
 1949 Constanting the Great, Constanting II, Constanting
B2170 Constantina II. Medals. (Kenner, Tal. vill.)
 9548 Demetrius Poliorcetes, Al ; Lysimanhers, E. (N.C. 1917, pl. 1, + 11.)
 9554 Demetrius I of Syria, Attalus Epiphanes, Affliachus I R. Oroles II (III). (N.C.
         1917, pl. 3, =1,1
B2168
       Galba, coinage of. Chaudine, Noro, Galba.
 9554 Orodes II (III). Authorhus I, Attalon Epiphases, Demetrius I of Syris, R. (N.C.
         1917, pl. 3, 44, j
 9579 Persis and Malles, estrapal heads. Value (*) from Oxus treasure.
 9582 Pixodarus, dyunt of Caria, and Salamis in Cyprus. Gold coinage.
B2171 Satrieuus, At Denarius of, n.c. 77. (Wolf on reverne.)
 9579 Vahan (f). One Tressure). Saturpal heads of Perais and Mallon.
 5583 Gold colleage of 4th cent. s.c. (Philipp. Panlacapacum, Athens, etc.)
 9581 Gold coimage of finly and Sicily Late 5th to early 4th century i.c.
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MISCELLANEA.

3278	Wooden origin of Dorie onies, diagrams. (Choisy, 1, H. Architecture, p. 288.
5279	Development of Ionic order, diagrams (Choing, I. L'Architecture, p. 388.)
8467	Methods of excavation; specimen sketches of stratification. (Droop, Archivel, Four-
	p. 18.)
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4483	Greek mushmers, group of three actors.
4484), is the deeps dramolique.
5532	Henry Schliemann : later portrait with autograph.

THE BRITISH ACADEMY

CROMER GREEK PRIZE

With the view of maintaining and oncouraging the study of Greek, particularly among the young, in the mational interest, Lord Cromer has founded an Annual Prize, to be administered by the British Academy, for the best Essay on any subject connected with the language, history, art, literature or philosophy of Ancient Greece.

The Prize which is ordinarily a sum of £40, is awarded annually in March, mider the following Rules:

- Competition is open to all British subjects of either sex who will be under twenty-six years of age on 31 Dec. preceding the award.
- 2 Any such person desirous of competing must send in to the Secretary of the British Academy on or before I June of the year preceding the award the title of the subject proposed by him or her. The Academy may approve (with or without modification) or disapprove the subject; their decision will be intimated to the competitor as soon as possible.
- 3. Preformore will be given, in approval of subjects proposed, to those which deal with aspects of the Greek genius and civilization of large and permanent significance over those which are of a minute or highly technical character.
- 4 Any Essay already published, or already in competition for another prize of the same nature, will be inadmissable. A candidate to whom the Prize has been awarded will not be eligible to compete for it again. But an Essay which has not received the Prize may be submitted again (with or without alteration) in a future year so long as the writer remains eligible under Rule I.
- 5. Essays of which the subject has been approved must be sent in to the Secretary of the Academy on or before 31 Dec. They must be typed (or, if the author prefers printed), and should have a note attached stating the main sources of information used.
- It is recommended that the Essays should not exceed 20,000 words exclusive or notes. Notes should not run to an excessive length.
- 7. The author of the Essay to which the Prize is awarded will be expected to publish it (within a reasonable time, and after any necessary revision), either separately, or in the Journals or Transactions of a Society approved by the Academy, or among the Transactions of the Academy.

The Secretary of the Academy will supply on application, to any person qualified and desirous to compute, a list of some typical subjects, for general guidance only, and without any suggestion that one or another of these subjects should be chosen, or that preference will be given to them over any other subject of a suitable nature.

Communications should be addressed to The Secretary of the British Academy, Burlington House, Piccadilly, London, W.

NOTICE TO CONTRIBUTORS.

THE Council of the Hellenic Society having decided that it is desirable for a common system of transliteration of Greek words to be adopted in the Journal of Hellenic Studies the following scheme has been drawn up by the Acting Editorial Committee in conjunction with the Consultative Editorial Committee, and has received the approval of the Council.

In consideration of the literary traditions of English scholarship, the scheme is of the mature of a compromise, and in most cases considerable latitude of usage is to be allowed.

(1) All Greek proper names should be transliterated into the Latin alphabet according to the practice of educated Romans of the Augustan age. Thus a should be represented by a the vowels and diphthongs v, as, or, by by y, as, or, and a respectively, final -os and -ov by -as and -am, and -posliv -er.

But in the case of the diphthong at it is felt that at is more suitable than a or i, although in names like Landicso. Alexandria, where they are consecrated by usage, or i should be preserved, also words ending in -nor must be represented by -non.

A certain amount of discretion must be allowed in using the o terminations, especially where the Latin usage itself varies or prefers the o form as Delos. Similarly Latin usage should be followed as far as possible in — and —a terminations, e.g., Priene, Singram. In some of the more obscure names ending in —post as Alaypos, —er should be avoided, as likely to lead to confusion. The Greek form —on is to be preferred to —o for names like Dion, Hieron, except in a name so common as Apollo, where it would be perfectle.

Names which have acquired a definite English form, such as-Corinth, Athens, should of course not be otherwise represented. It is hardly necessary to point out that forms like Hercules, Movemry, Minerest, should not be used for Hercules, Hermes, and

Athena.

- (2) Although names of the gods should be transliterated in the same way as other proper names, names of personifications and epithets such as Nike, Homonoia, Hyakinthios, should fall under § 4.
- (3) In no case should accents, especially the circumflex, be written over vowels to show quantity.
- (4) In the case of Greek words other than proper names, used as names of personifications or technical terms, the Greek form should be transliterated letter for letter, k being used for κ, ch for χ, but y and u being substituted for v and ω, which are misleading in English, e.g., Nike, apareyomenus, diadamenus, rhyton.
 - This rule should not be rigidly enforced in the case of Greek words in common English use, such as degis, symposium. It is also necessary to preserve the use of on for or in a certain number of words in which it has become almost universal, such as boule, geronsia.
- (5) The Acting Editorial Committee are authorised to correct all MSS and proofs in accordance with this scheme, except in the case of a special protest from a contributor. All contributors, therefore, who object on principle to the system approved by the Council, are requested to inform the Editors of the fact when forwarding contributions to the Journal.

In addition to the above system of transliteration, contributors to the Journal of Hellenic Studies are requested, so far as possible, to adhere to the following conventions:—

Quotations from Ancient and Modern Authorities.

Names of authors should not be underlined; titles of books, articles periodicals, or other collective publications should be underlined (for italies). If the title of an article is quoted as well as the publication in which it is contained, the latter should be bracketed. Thus

Six, Jahrb. xviii. 1903, p. 34,

04-

Six, Protogenes (Jahrb. xviii. 1903), p. 34.

But as a rule the shorter form of citation is to be preferred.

The number of the edition, when necessary, should be indicated by a small figure above the line; e.g. Dittenb. $SylL^{\pm}$ 123.

Titles of Periodical and Collective Publications.

The following abbreviations are suggested, as already in more or less general use. In other cases, no abbreviation which is not readily identified should be employed.

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A -E, M = Archiologisch-opgraphische Mittellungen.
Ann. d. I = Annali dell' Instituto:
Arch. Ann. - Archiologischer Anzeiger (Beihlat) zum Jahrbuch).
Arch Zeil. - Archiologische Zeitung
 Ath. Mitt. = Mitteilungen des Dontschen Arch. Inst., Athenische Abreilung.
Baumeister - Baumeister, Denkmäler des klassischen Alfertums.
B.C.H. = Balletin de Currespondance Hellenique.
Bert. Fas - Furtwingler, Beschreibung der Vasensammlung zu Berlin.
B.M. Brouss - British Maseum Ustalogue af Brouses
R.M.C - Beitish Museum Catalogue of Grook Coins
B. M. Inser, = Greek Inscriptions in the British Massam.
B. M. Scalpt. = British Massam Catalogue of Scalpture.
B. M. Terracolas = British Massam Catalogue of Terracolas B. M. Terracolas = British Massam Catalogue of Vasos, 1893, src.
B. M. Vasa = Berrish Massam Catalogue of Vasos, 1893, src.
B. S. A. = Annual of the British School at Athens.
B. S. B. = Papers of the British School at Rome.
Built d. L. = Bulletime dell' Institute.
Busolt - Busolt, Griochische Geschichte.
C.L.G. = Corpus Inscriptionum Grassarum.
C.L.L. = Corpus Inscriptionum Latinarum.
Cl. Rev. - Chasical Review.
C.R. Acad. Disc. - Comptos rendus de l'Academie des Inscriptions-
C.R. St. Pil. = Compte result de la Commission de St. Petersbeurg.
Dar. Sagl. = Daremberg Saglio, Dienomeure des Anniquités.
Dittenb. O.G.I = Dittenberger, Orientis Gracer Inscriptiones Selectas.
Dirtanh, S_0H — Dittanborger, Sylloge Linersptionum Graecarum, E\phi, \Delta_{PX} — E\phimpais \Delta_{PX}andoyses, G.D.L — Collitz, Samulang der Griechischen Dulekt-Inschritten.
Gerh. A.V. = Gerhard, Americaene Vasenbilder.
G.G.A. = Gottingsschu Gelehrte Anzeigen.
Head, H.N. = Head, Historia Numerum
I: 4 - Inscriptions Graces
I.G.A. - Röhl, Inserrptional Granus Anthonissinmo.
Juhrb, - Jahrlinch des Deutseinen Arciniologischen Insuitats
Jahresh. - Jahreshefte des Oosterreichsschen Archialogischen Institutes.
J. H.S. - Journal of Hollerin Studies
Klio-Klio (Beitrige zur alten Geschichte)
L. Bas-Wada, - Le Bas-Warmington, Veyage Archeologapur,
Michel - Michel, Recoull d'Inscriptions greeques
Mon. d. J. = Mogramenti dall' Inataturo.
Müller-Wies = Müller-Wieseler, Denkmäler dar alten Kunst
Mas. Marbles-Collection of Angent Marbles in the British Massaur,
New Johrb. M. 40.—New Jahrbucher für das klassische Altertam
New Jahrb. Phil.—New Jahrbucher für Philologis.
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J.C.

² The attention of contributors is called to the fact that the titles of the volumes of the second issue of the Corpus of Grant Interrations, published by the Prussian Academy, have now been illunged as follows: I = Inser Atticae annu Escilidia verustiores,

^{..} matatis ques sel inter Kaul, ann. er Angusti tempora, 311

^{111 =} Argolidis

¹V_ =

VII. = Mugaridia et Rosotine XII. Ornoche Septentrionalis.

insul Maria Acques practor Delam.

XIV = Italian of Smiline.

Niess - Niess, Geschichte der griechischen u. makedonischen Staaten. Nem. Chr. - Numismatie Chronicle.

Num. Zeit. = Numinmatische Zeitschrift.

Pauly Wissowa = Pauly Wissowa, Real-Encyclopadie der classischen Altertumawissenschaft.

Philad = Philologus

Ramsay, C.B. = Ramsay, Urties and Rishopries of Phrygia.
Ramsay, Hat, Geog. = Ramsay, Historical Geography of Asia Minor-Reimsch, Rep. Scalpt. = S. Reimsch, Répertoire des Scalptures.
Reimsch, Rep. Foscs = S. Reimsch, Répertoire des Vascs points.
Rev. Arch. = Revue Archivologique.
Rev. Arch. = Revue Archivologique.

Rev. Et. Gr. - Revue des Etudes Greeques.

Rev. Num - Revue Nummarique. Rev. Philot. - Revuy de Philologie. 18h. Mas. - Rhemisches Mossum

Rom. Will, - Mitteilungen des Deutschen Archiologischen Instituta, Römische Abteilung.

Roscher - Roscher, Lexicon dur Mythologia

S.M.C. Sparta Mussum Catalogue. T.A.M. – Truli Asso Minoria. Z. f. N. – Zeitschrift für Numismatik.

Transliteration of Inscriptions.

[] Square brackets to indicate additions, i.e. a lacuna filled by conjecture.

() Corved brackets to indicate alterations, i.e. (1) the resolution of an abbreviation or symbol; (2) letters misrepresented by the organier; (3) letters wrongly omitted by the engraver; (4) mistakes of the copyist.

< > Augular brackets to indicate omissions, i.e. to enclose superfluous

letters appearing on the original

. . Dots to represent an untilled lacums when the exact number of missing luttura is known.

--- Dashes for the same purpose, when the number of missing letters is not known:

Uncertain letters should have dots under them.

Where the original has jota adscript, it should be reproduced in that form; otherwise it should be supplied as subscript.

The aspirate if it appears in the original should be represented by a special sign 8

Quotations from MSS, and Literary Texts.

The same conventions should be employed for this purpose as for inscriptions, with the following important exceptions:-

Curved brackets to indicate only the resolution of an abbreviation or symbol

[[]] Double square brackets to enclose superfluous letters appearing on the onginal

< > Angular brackets to enclose letters supplying an omission in the

The Editors desire to impress upon contributors the necessity of clearly and accumulaty indicating accents and breathings, as the neglect of this precaution adds very considerably to the cost of production of the Journal.

GREEK PAPYEI AND THEIR CONTRIBUTION TO CLASSICAL LITERATURE 1

THE enemies of classics sometimes say that it is a dead subject. They depict the classical scholar as spending his time in re-reading, re-editing, or re-annotating texts which have been read, edited, and annotated for generations or centuries; and they contrast him with the student of science, before whom the inexhaustible riches of nature are displayed as his quarry. It were strange, if this were true, that classical study should possess-as by the common experience of public schools it does possess - a capacity unsurpassed by any other subject for turning out men of practical ability and aptitude for the affairs of the world.* But it is not true. The enemies of classics, in this as in other instances, have erected a dummy in order to knock it over. They may be reproducing traditions of their fathers, or of their own boybood; but they are showing that they have not kept abreast of their own times, and that they are not competent to criticise a study of which they know so little. Even natural science, with all its wonderful discoveries, has not been a more living subject during the last half century than the study of classical antiquity. Literature and archaeology-which mean the record of the thoughts of man as expressed in words and in art, during a period when that expression was at its highest pitch of perfection-have gone from discovery to discovery, from development to development, at a rate unequalled even at the Renaissance. These years have given fresh life to the study of the heroic age of human intellectual progress; they have shown that the treasures of antiquity are not only to be enjoyed but are to be increased

In the case of art and archaeology, both the origins of this age of progress and the period of great achievement date farther back than in the case of literature. The origins may be traced to the activities of the Society of Dilettanti in the eighteenth century, while the greatest achievement of all, the salvation of the Parthenon Marbles, is just a hundred years old; and this was followed, in the course of the next half century, by the excavations

This Paper was communicated to the Leeds Branch of the Chesical Association at its fourth annual meeting, January 26, 1918. The Editors have to thank the Committee of

the Branch for permission to reprint it here.

² See Value of the Chauce, ed. A. F. West,
pp. 378-385 (Princeton, 1917).

and explorations which brought to light the temple of Phigaleia, the vases of Etruria, the mansoleum of Halicarnassus, and many other examples of classic art. To the third quarter of the century may also be assigned approximately the development of that study of Greek and Latin inscriptions which has done so much to extend and vivify our knowledge of ancient history. These are the works of previous generations: but our own has progress at least equal to show. Troy, Mycenae, Tiryns, Olympia, Pergamum, Delphi, Crete, the Acropolis of Athens and the Forum of Rome,—these are only the greater and more outstanding names which bring to mind the wonderful wealth of treasures and of information which has been disinterred by the explorer's spade within the memory of men still young enough to be wearing khaki to-day.

With literature the dates of discovery are later. We may start with the excavation of the Herenlaneum papyri in 1752, with the first discovery of a Greek papyrus in Egypt in 1778, with the first literary papyrus in 1821, or with the recovery of the first lost text in 1847. In 1877 a new step forward was made in the first discovery of papyri (mostly non-literary) on a large scale in the Fayum, but it was not until 1890, only twenty-eight years ago, that the great age of papyri opened with the discovery by Prof. Flinders Petrie of papyri of the third century a.c. in the cartonnage of mummies, and the acquisition by the British Museum of the group of manuscripts which included the 'Aθηναίων Παλιτεία of Aristotle, the Mimes of Herodas, and other literary papyri of great, though lesser, interest.

The papyrus age pair excellence, therefore, has lasted little more than a quarter of a century, but its wealth is such as to tax an hour's lecture even to summarise, and to make us congratulate ourselves that we have witnessed it. Prof Rhys Roberts has asked me to undertake the task of laying before you a summary of its results; and if I have assented, it is partly because I would not willingly refuse a request from one who has worked so hard and done so much for the interests of classical study as Prof. Rhys Roberts, and partly because I think it is the duty of these who are engaged in any particular branch of study occasionally to give an account of what has been done in that particular field for the benefit of those who have entered the field later, or whose studies lie outside.

I do not think there will be time to speak of the great mass of non-literary documents which form the main bulk of the papyri discovered in Egypt. They are counted now by hundreds of thousands, they cover a stretch of a thousand years, they contribute infinite details to our knowledge of Graeco-Roman life, law, and economics, they have written a new chapter of palaeography. Yet their interest cannot be so general, nor their importance so great, as the accessions to our knowledge of Greek literature which have come to us from a numerically small minority of the papyri, and it is of these that I wish mainly to speak

First, let us get some idea of the general extent of the field to be covered. I do not like to guarantee exact accuracy of figures, especially

since I have not been able to keep my records fully up to date during the last eight, and especially during the last three years. But you will not be far wrong in setting the total number of Greek literary papyri, extant and published, at about 920. In size they vary from rolls 30 feet long to scraps of the dimensions of a postage-stamp; in quality they range from an ode of Sappho to three or four mutilated lines of a perfectly wall known work, or an unintelligible and almost illegible fragment of some work unknown and unidentifiable. Yet from some points of view, as I hope to show, even the smallest of these fragments has a certain value.

Let us first analyse these figures a little more closely. Of these 920 papyri, about 570 contain portions of texts already known to us; about 350 contain texts which are new. Of the known texts about 100 are Biblical or (in a few cases only) patriatic; and about 270 are Homeric. That leaves only about 200 specimens of the known classical authors in general, of whom the commonest are Demosthenes with some 30 representatives and Plate with about 20. Aeschylus is almost unrepresented and Sophocles is in little better case; but Euripides occurs some 16 times in the list, besides 11 portions of his lost dramas. This, it may be observed in passing is much what one would expect; but it is surprising to find that while Thucydides and Xenophon are fairly well represented among the extant papyre, Herodomes has so far appeared very rarely and in very insignificant scraps. Of the philosophers, Plato was evidently a favourite as is but natural; but Aristotle is almost unknown. After Demosthenes, Isocrates is the most popular of the orators, and Hyperides enjoys the distinction of having been restored to our knowledge from the papyri in no less than six substantial orations. Some extensive fragments of Lysies are promised for the next Oxyrhynchus volume. Aeschines just makes an appearance, but no more. No other author appears sufficiently often to require mention, though there are somewhat substantial portions of the Rhetorica ad Alexandrum and of Nonnus, the latter himself an Egyptian poet.

I do not propose to go at length here into the question of the effect of the evidence of the papyri on the textual criticism of the Greek classics. It has, I think, been sufficiently shown (I) that the texts of the Greek classics current in the second and third centuries after Christ, and even in the second and third centuries before Christ, were substantially the same as the texts that we have now; (2) that modern criticism has generally been right in determining which among the extant vellum manuscripts, on which our present texts depend, are the best, but has often gone too far in pinning its faith exclusively to these authorities; (3) that modern critics (if the papyri are to be trusted) are seldom felicitous in the detection and encendation of corruptions, except in the smallest and most obvious cases; (4) that some corruptions which unquestionably occur in our present texts are of very early date, and have held their own through many centuries during which ancient Greek was a spoken language. With these propositions apparently well

established, and confirmed by each succeeding discovery and publication, we may, I think, read our classics to ourselves in confidence, but shall proceed to emend them with diffidence; and these conclusions, I take it, will be comforting to most of us.

Let us turn now to the 350 papyri which contain texts previously unknown. The more important among these are, of course, the great prizes of the Egyptian lucky-bag, really valuable accessions which our knowledge of Greek literature has obtained from papyri. There are some twenty which may fairly be ranked in this class, and they cover nearly all the different species of Greek literature. Theology, lyric poetry, tragedy, comedy, history, oratory—all have received notable additions of real literary interest; epic poetry and philosophy alone have so far been unfortunate. Let us look for a moment at each of these classes. Though all these discoveries are certainly known to you, it may be useful occasionally to take stock of the gains that have been made.

Of theology I shall not say much, because it hardly comes within the purview of our Association. But no survey of the papyrus literature would be complete without at least a reference to the two remarkable fragments of Aéyes (popularly, but incorrectly, termed Aéyes), or Sayings of our Lord, which were found in the rubbish heaps of Oxyrhynchus, with which must also be classed a few fragments of uncanonical Gospels which belong to the same type of literature. The vellum manuscripts of the Gospel and Apocalypse of Peter, and the valuable uncial manuscripts of portions of the Septuagint and New Testament, now in America, though discovered in Egypt, were not, so far as is known, found with papyri, and can hardly be reckoned here. On the other hand, the early fragments of New Testament papyri, now fairly numerous, give us valuable light on the transmission of the text of the Gospels in the first three Christian centuries.

In lyric poetry the new accessions are many and various and of high interest. Least in bulk but not in quality are the few stanzas of Sappho whited by Schubart from some damaged leaves of vellum at Berlin, and the fragments, many in number but seldom admitting of connected restoration. published in vol. x, of the Oxyrhynchus papyri. They give us no complete ode; but they give us several connected lines and stanzas not unworthy of the name and fame of Sappho, and to say this is to say all. Baid μέν, άλλα ρόδα. With these may be mentioned also the Louvre fragment of Aleman, containing three columns of a maidens' chorns, which is practically all that we have of this early and interesting lyric poet. Next come the paems of Pindar in the fifth volume of the Oxyrhynchus Papyri; and the epinician cales and pacans of Bacchylides in the British Museum. Portions of two dichyrambs and of some of the Olympian odes of Pindar will appear in the next Oxyrhynchus volume, but otherwise the great epinicians are unrepresented. Like Asschylus, Pindar was too difficult for the ordinary provincial. The paeans, though they recall the style of the epinicians, are less difficult and, it must be admitted, less splendid than the great Olympian and Pythian odes which are the glory of the name of Pindar. Bacchylides, on the other

hand, like Hyperides and like Menander, the recovery of which we owe likewise to Egypt, is among the easiest of Greek authors. His merits are of the minor order—ease, lucidity, a picturesque handling of spithets (often coined for the occasion), pleasant touches of natural scenery, simple moralities which are perilously near platitudes, and withal a Hellenic grace and sense of beauty which redeems everything. Nothing but his direct appeal to men of simple understanding (and such, it is safe to say, were not a minority among athletes and the patrons of athletes) can have saved him from utter annihilation in the competition with Pindar; but the recovery of so large a portion of his poems is a very great gain to our knowledge of Greek literature, a most instructive foil to Pindar, and a serviceable introduction to the study of Greek lyries. But if we could recover Simonides, we might find there something of the limpidity of his nephew, combined with not a little poetry worthy to be compared with that of their Theban rival.

Timothens, the last of the new lyric poets in date, is as complete a contrast to Bacchylides as can be imagined. Burne Jones once said, a propos of the Pergamum sculptures now at Berlin: 'Troth is, and it is a scientific induction, that whenever Germans go forth to dig and discover, their special providence provides for them and brings to the surface the most depressing, heavy, conceited, dull products of dead and done-with Greece; and they ought to be thankful, for it is what they like.'

I do not make myself responsible for the permanent truth of this obiter dictum, and it is not to be denied that, if the Germans have not hitherto had the fortune to acquire any of the great new literary treasures, they have at least known how to make good use of those which have fallen into the hands of others; but Timotheus might have been made expressly to illustrate Burne Jones law. So crabbed that even in his own language he must be rather spelled out than read; so forced, contorted, and exaggerated that he is simply not translatable into any other language; so devoid of beauty of idea, of phrase, or of rhythm that it is only by remembering that his verses are but the libretto to a musical composition that we can understand his being tolerated at all; he contradicts in every respect the ideals of Hellenic art and tasts. He is a curiosity, a monstresity, an addition, no doubt, to our knowledge of Greek literature, but an addition such as we may hope, for the credit of Greek literature, will not be repeated.

Of tragedy, unfortunately, there is not much to be said. We have no complete new play, not even a complete new scene; but we have learnt something of three among the lost plays of Euripides. The sixth Oxyrhynchus volume contains considerable fragments of the Hypsipyle, enabling us to reconstruct the greater part of the plot, and giving long connected passages both of iambies and of lyric dialogue, which are interesting if not notable. The Petrie papyri gave us a substantial fragment of the Antiops. And a vellum leaf at Berlin has a complete speech from the Cretans, containing an elaborate defence of herself by Pasiphae, which is a striking and characteristically Euripidean handling of an obviously difficult situation. Mention

should also be made of the fragments of a play, apparently Sophoclean, on the subject of Eurypylus; but these, though numerous, are very small, and barely a score of lines can be restored with confidence.

Between tragedy and comedy comes the satyric drama, our acquaintance with which, hitherto limited to the *Cyclops* of Euripides (for I refuse to regard the *Alcestis* as satyric in any true sense of the term) is notably increased by the discovery of some fifteen consecutive columns in fair condition of the *Ichneutae* of Sophocles. The story is that of the theft of Apollo's cattle by the youthful Hermes. The style has the grace of Sophocles, without his subtlety. The impression is given that the poet did not trouble himself greatly over this class of composition, but was content to produce a passable libratio for a dramatic entertainment which would lighten the strain of a series of tragedies.

In comedy the finds have been more extensive, for here what may be called the obvious discovery has at last been made—the discovery which a priori one would have regarded and did regard as the most likely of all discoveries-I mean of course, Menander. Passages of some length from two of his plays had previously been published, by Nicole in 1897 and by Grenfell and Hunt in 1899; but not until M. Lefebyre's publication, at the end of 1907, of the volume containing four plays which he had himself discovered in Upper Egypt, could it be said that we had the means of forming an independent estimate of Menander's merits. Even now it is not quite easy to judge him fairly. The four plays are, unfortunately, far from perfect. We have about half of one play (supplemented by a veilum leaf from Oxyrhynchus), about a third of another, and smaller portions of two more; though one of these (the Hepixerpopern) is supplemented both by the fragment previously published by Grenfell and Hunt, and by a later fragment of some 120 lines at Leipzig. All (except the vellum fragment of the Emirpémortes) may be most conveniently studied in the Teubner text by Koerte (1910). A few additional fragments have since been published by Grenfell and Hunt. We are still, therefore, unable to follow out the course of a whole play, and consequently we cannot form a proper judgment as to Menander's management of the plot; but the Lefebvre papyrus does give us complete scenes and adequate specimens of his dialogue, language, and stage management. Some scholars have declared themselves disappointed with the result, and I do not presume to say authoritatively that they are wrong; but to me personally Menander seems to have many merits, which do not diminish with repeated reading. In particular, the plays seem to me to land themselves well to clever character acting on the stage. They have more brightness and movement than the Roman copies of them, more delicacy of characterization; and they have the grace of style which one expected, though with fewer of those epigrammatic and sententious lines which the extant fragments had led one to anticipate. It is not my business now however, to undertake a detailed criticism of Menander, but merely to register his reappearance as one of the boons for which we are indebted to the papyri. Whatever be our ultimate judgment, it is at least a gain that

we are able to form a judgment at all for ourselves on the most famous name in the annals of the New Comedy.

In close connection with comedy may be mentioned what is perhaps the most novel and surprising of all the papyrus discoveries, the Mimes of Herodas. Here is practically a new and almost unsuspected genus of literature; and by excellent good fortune the papyrus to which we owe it is in exceptionally good condition, so that we have six of these miniature comedies practically intact, with fragments of four or five more. In calling them miniature comedies I do not wish to prejudge the question whether they were primarily meant for actual representation on the stage. My own belief is that they were not; but high authorities have taken the opposite view. However this may be, we have here some perfectly unique genre pictures of Greek life-common life, vulgar life, sometimes sordid life, if you will, but yet life. They are totally without the poetry of Theocritas, but they have a elear-cut, uncompromising realism, which gives them incomparable value. Among all the gifts from the papyri, there is none which has so clearly enlarged our knowledge of Greek literature by the addition of new concentions.

Two classes of poetry are represented in the seven leaves from a papyrus codex of Callimachus, published in the seventh volume of the Oxyrhynchus Papyri. About 90 lines of elegiacs contain the story of Acontius and Cydippe, from the fourth book of the Αἴτια, and these are followed by some 300 lines (unfortunately much more mutilated) from his "Iaμβοι. With these may be classed some 60 complete lines and a large number of fragments of the Μελίαμβοι of Cercidas of Megalopolis, which at any rate give some substance to a past who was previously only a name.

There remain history and oratory. It is much too late in the day to revive the discussions which accompanied the appearance of the most discussed, perhaps the most sensational, of the new paper, the 'Abyraian-Holtreia of Aristotle. I say of Aristotle' advisedly, for I believe it to be as truly the work of Aristotle as any of the other works that pass under his name; though I am far from claiming for it equality of importance with his greatest works. But it has unique value, first, in its historical section, as a representation of a view of Athenian history different from that of Herodotus and Thucydides, and probably a view more popularly and generally current; and secondly, in its descriptive section, as a first-hand account of Athenian institutions which at once supersedes and greatly amplifies the second-hand authorities on which we have hitherto been dependent. It is unquestionably a find of the first grade of importance.

As for our other new historian, the historian of Oxyrhynchus, what are we to call him! It is difficult to see with what right one can give the name of Theopompus to a work which is the antithesis of all we know and all which tradition has handed down to us as to the style of Theopompus. Yet when scholars of the rank of Wilamowitz and Meyer propound this identification, one cannot be surprised that it was adopted by the first editors, though no one has stated more clearly than they the arguments which tell against it. We may, with Mr. Walker, assign the work to Ephorus, a more probable though not fully convincing conclusion. If we call him Cratippus, we have at least the advantage of a name without connotation, which will not suffer by being associated with what, it must be confessed, is a somewhat lifeless and uninteresting narrative, though not without features of importance. If the portion of him which has come to light had related to the events of a few years earlier or later, it might easily have been a find of the first value; but here Fate has been unkind.

Still, everything that gives us a wider knowledge of the representations of their own national history which were current among the Greeks is a real gain. We have been so accustomed to regard Herodotus and Thucydides. especially the latter, as the standard histories of Greece that it is not easy to realise that the Greeks of the fourth and later centuries did not look on them in the same light. The popular histories of the day were much rather those annalistic records, often known as 'Arthices, of which the most important were apparently those of Androtion and Philochorus. The former has been suggested as a possible author of the Oxyrhynchus fragment, but with very little probability. Of the latter we have acquired some additional fragments in the commentary of Didymus on Demosthenes, of which a considerable part is in a papyrus at Berlin, published by Diels and Schubart in 1904. It is a portion of the commentary on the Philippics, dealing with four orations, and is of interest partly for its copious citations from Philochorus and other lost historians, and partly for its express attribution of the eleventh Philippic (the genuineness of which has long been suspected) to Amaximenes. It cannot be said that this discovery does much for the reputation of Didymns himself. It is more to the credit of that inexhaustible commentator's industry than his judgment.

The mention of Demosthenes brings us to the last category to be dealt with, that of oratory. This, as it happens, was the first to be enriched by the recovery of a lost author from the papyri. Hyperides was one of the most popular of Attic orators; he was also one of the easiest; and it is less surprising that his works should be found in Egypt than that he should ever have been lost at all. It is, however, rather remarkable that so many substantial manuscripts of him should have come to light. In 1847 two English travellers in Egypt, Mr. Harris and Mr. Arden, independently obtained portions of a long roll containing three orations, that against Demosthenes and those for Lycophron and Euxenippus—the first (which would have been the most interesting) miserably mutilated, the last quite intact. Nine years later Stobart acquired an almost complete copy of the Funeral Oration, apparently written as a schoolboy's exercise on the back of a used roll of papyrus. The conclusion of the almost unknown speech against Philippides was among the great British Museum haul of 1890; and

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^{*} This identification gains some support from the fragments of Ephorus published by Grenfell in vol. ziii. of the Oxyrhynchna

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in 1892 appeared perhaps the most valuable of all, the speech against Athenogenes, now in the Louvre. We have now, therefore—thanks to Egypt and the papyri—ample means to form an opinion of the famous contemporary of Demosthenes; and here, once again, we find the judgment of the author of the De Sublimitate, the most penetrating and original critic of antiquity, fully justified. In elequence, in passion, in force, in moral earnestness, in all that makes the great, as distinguished from the talented, orator, Hyperides cannot be mentioned in the same breath with Demosthenes; but in ease and lucidity, in grace and persuasiveness, in the simplicity due to consummate art, he is a characteristic Athenian, a worthy successor to Lysias.

So much for the great prizes in the lottery, the substantial additions to Greek literature. I will not panse to estimate their value more minutely, because I wish to dwell for a few moments on another part of my subject, namely the value of the minor literary papyri, the small fragments which in themselves seem so useless, so merely tantalising. What can be the value of a dozen imperfect lines by an unidentified author? Is even the recovery of half a dozen sentences which we can assign to a definite author (usually because part of it was known before) a matter of any real importance? They are not even passages selected, as in an anthology or in the quotations of later authors, on the ground of their beauty or special interest. They are merely chance sentences without a context, and rarely can give us a new fact or a new idea, or even a striking phrase. Nevertheless, they have a value, not so much individually as collectively, not so much for what they actually contain as for what they prove with regard to the history of Greek literature. Each by itself is little better than useless; collectively, they give us some idea of the character and extent of Greek literature circulating in Egypt, the most important province, from the literary point of view, of the Hollenistic world It is on this aspect of the matter that I wish to say a few words.

In the first place, the number of them is suggestive. Putting the Christian writers and Homer on one side, the total number of portions of works previously known that have been discovered is about 200; but the total number of portions of unknown works is about 350. In other words, for every single work of Greek literature now extant, two which have since disappeared were apparently extant in Egypt in the early centuries of the Christian era. There is no solid reason for doubting the conclusion thus suggested. The great majority of the papyrus fragments with which we are dealing come from the rubbish heaps of towns like Oxyrhynchus, and belong to the first three centuries after Christ, and a fair number are later still. It

^{*}I should perhaps have added, though it is rather scientific than literary, the long Medical Papyros which formed part of the British Museum acquisition of 1890, and which contains considerable extracts from the Interior which passed under the name of

Aristotle, though actually compiled (seconding to Galen) by his disciple Monon. It was edited by Diels under the title of Anonymi Londinanais ex Aristotelis Intracis Menoniis et milis Medicia Eclogue (1893).

has sometimes been suggested that in the late Hellenistic, and still more in the Christian period most of the lost classics were already lost, and that the grammarians (and even authors like Plutarch) who quote from them derived their knowledge from epitomes and anthologies. The facts revealed by our census of extant papyri do not confirm this suggestion. If a few provincial towns and villages in a single country possessed so large a number of copies of works now lost to us, what occasion is there for us to limit the possibilities of Alexandria, of Antioch, or of Constantinople? The Greek resident in Egypt in the third century had the opportunity of reading thrice or four times the number of works of Greek literature that have come down to us

The range of this literature was also very wide. Among the new texts which can be identified with more or less certainty are works of Hesiod. Alcidamas, Aleman, Archifochus, Sappho, Alcaeus, Pherceydes, Pindar, Corinna, Epicharmus, Sophron, Simonides, Sophocles, Euripides, Aristophanes, Cratinus, Menander, Philemon, Euphorion, Antiphon, Lysias, Isaeus, Aristotle, Aristoxenus, Hierocles, Sosylus, Chariton, Didymus, Julius Africanus not to mention Bacchylides, Hyperides, Herodas, Callimachus, Timothesis, Cercidas, who have been described already. The unidentifiable texts include poems in hexameters, tragedies, comedies, mimes, lyries, histories, speeches, philosophical treatises. Since all these were accessible in central and upper Egypt, there is no reason to doubt that the Alexandrian library, even after the great conflagration in the Caesarian war, really possessed Greek literature in substantial completeness, and that the grammarmes and commentators for several centuries had before them the complete works on which they commented and not merely excerpts and elegant extracts.

There is one comforting reflection to be drawn from this state of things. If all this mass of lost literature was extant in Egypt in the times and places now accessible to the spade of the explorer, there are no limits to what may yet be discovered. Few authors could have been selected as less likely to be restored to us than Herodas and Timotheus; yet restored they have been no less than Menander and Hyperides, who would have been named as the most likely. No one can forecast the taste of the next dead Graeco-Egyptian of literary proclivities whose tomb may be discovered, nor guess what books he

may have chosen to take with him to his last bed.

It remains to consider the quality of the lost literature thus partially revealed to us, and its relation to that with which modern civilisation has been acquainted since the Renaissance. Here we are like Virgil's traveller, who

Aut videt, aut vidisse putat, per nubila lunam.

It is hard to judge literature fairly from mutilated fragments. Even when all Germany has tried its hand at restoring them, it is possible to suspect that something has been lost in the process. But on the whole it is the moon and not the sun that we see through the clouds. Nothing in the recovered literature equals the splendour of the best that we have known before. Hyperides is not the equal of Demosthenes, Bacchylides is not the equal of Pindar: Pindar himself, in his pacans, does not reach the heights of the best of the epinicians. Herodas, Timotheus, Comma, give us glimpses into new classes of Greek literature which are of the greatest interest; but in charm, in poetry, in genius, we have known greater than these. The familiar paradox of Bacon, 'that time seemeth to be of the nature of a river or stream, which carrieth down to us that which is light and blown up, and smketh and drowneth that which is weighty and solid 'finds no confirmation from these dredgings into the drowned depths of time. We may indeed still believe that in some departments of literature, notably in lyrical poetry, we have lost works as fine as any that we possess; but it is just here that the papyri have hitherto given us least, and consequently it is just here that we

have least ground to expect help in the future.

To illustrate this point; let us see what literature is represented among the flotsam and jetsam of Egypt, and what is not. Homer, of course, is there in full and overpowering predominance; and we even have glimpses, in the third century B.C., of a somewhat unfamiliar Homer, padded out with superfluous lines and repetitions, the exact process of whose disappearance from our standard text is not yet fully elucidated. But of the Cyclic poems, which might throw so much light on the conditions out of which the Ilical and Odyssey came into existence, nothing whatever has been found. The Hesiodic school is better represented -not the rural school of the Works and Days, but the congeries of traditional mythology hitherto known to us in the Theogonia and the Shield of Heracles. We have portions of the legends of Bellerophon and Meleager, and we have some decidedly interesting fragments of the story of the Suitors of Helen-notably the lines which explain how Odysseus came to form one of the party, not because he either hoped or wished to carry off the prize, but because he did not see why he should not have a share in the good things that would be going; while on the other hand, as he did not intend to be a serious competitor, he was strictly economical in the complimentary offerings which be brought. It is in the lyrical period, perhaps, that our losses have been greatest; and here the papyri have not done much for us. We have indeed substantial gains in the public odes of Pindar and Bacchylides; but I am speaking now of the private and personal lyric. A few fine lines of Sappho we have indeed recovered; but nothing of Stesichorus, Anacreon, Ibycus, and practically nothing of Alexens, Archilochus, or Simonides. Another department of literature in which accessions of knowledge would be very welcome is the Old Comedy. I do not believe that any discovery that might be made would overtop the Birds or the Frogs; but one would very gladly have some more Aristophanes, or some of the work of his chief rivals, Cratinus or Eupolis. But here all that we have got is a portion of the argument of one of the plays of Cratinus. So too in tragedy, we have no more Aeschylus, and nothing important of the serious work of Sophocles; nor can we yet gratify the curiosity which Plate arouses in us as to the merits of Agathon. In history, we have no trace of Hecataeus on the one hand nor

of Theopompus on the other; unless, indeed, the Oxyrhynchus historian be Theopompus, and even then the fragment does not belong to his great work, the Philippica. These (and perhaps one may add some more of the epigrams of Meleager) are the gaps which we should wish to see filled, and in which we might most hope to find something which would rival even the best that we know already. But though as has been said before, anything is possible, the papyri have not yet held out any hopes of gratifying our desires. On the whole, and quite naturally, it is the later, and generally the easier, authors who seem to have been the most popular among the provincials of Roman Egypt; and among them we have found nothing to displace the previous possessors of the highest seats on the

slopes of Parnassus.

We are not called on, therefore to revise our estimate of the great Greek writers, nor of the general character of Greek literature; but we are called on to welcome the widening of our knowledge and the quickening of our interest in it. And surely this quickening has come at a very opportune moment. At a time when Greek has to fight for its place in the education of our cultured class, it is no small thing that the living interest in it of scholars and men of letters should be maintained and intensified. The discoveries of new texts do not indeed do anything to meet the objections of those who would banish Greek from our curricula because their boys will not read Greek in after life; for those are objections which can never be fully satisfied until a general education is limited to reading, writing, and an acquaintance with the simpler processes of arithmetic, together with a courier's knowledge of French and German. But the new texts do much to meet the criticisms of those who used to complain that Greek scholarship is sterile, a special preserve of pedants who spend their lives in a heavy round of editing and re-editing authors who have been already over-edited in previous generations. It is not merely that they provide new materials for specialists to work on though it is no small boon that scholarship should be able to test its powers in new fields; but the fresh light thrown upon the familiar authors, the fresh literary questions that are raised, and that affect our conceptions of Greek culture, these give new life to the whole study of Greek literature

And further, even the indifferent can hardly help being forced by these discoveries and by kindred discoveries in the sphere of archaeology to face once more the great fundamental question of the place which Hellas holds in modern European civilisation. The extraordinary vitality of these new poems, histories, orations, wherever they are sufficiently complete to exercise their full effect, proves that the literature of Greece is indeed bone of our bone and flesh of our flesh. The literature of Greece still speaks to us with a living voice, like that of our own classics. It is simply not possible to think away the Greek elements of our civilisation; and I, for one, cannot believe that our civilisation, and especially our literature, could maintain its tone if the knowledge of Greek were confined to specialists who had a particular aptitude for it. It is not only those who can read Plato with their feet on the fender

who derive benefit from an acquaintance with Greek. A traveller who has once visited Paris or Venice has a much livelier understanding of the history of those towns, a keener and more intelligent interest in their fortunes, than one who has never seen them, although his knowledge of them is not to be compared with that of those who have made them their special study. So it is with literature. The boy who has struggled not much more than half way up his public school, and who drops his classics with relief-as indeed he drops his mathematics, his science, his history, and, if he can his French and German-as soon as he leaves school and takes his post upon an office stool, has yet the key which admits him to an understanding of much that he cannot avoid seeing and hearing and reading. Education should give to boys and girls the keys of as much knowledge, of as many different branches of knowledge, as can be managed in the years available. Time will show which of them he or she can use most effectually; but to take away the key which unlocks the door of the richest literature in the world. the literature which is not only at the base of, but which permeates, our own literature, our philosophy, our history, even our science, is surely to play the part of the scribes and hypocrites to shut up the kingdom of heaven agninst men.

But I must not, at this hour, diverge on to this fertile and engrossing subject. The point I wish to press is that the discoveries of Greek papyri which our generation has been fortunate enough to watch have played no small part in strengthening the hands of the defenders of classical education and of humanistic education in general. They have therefore a double claim on the interest of members of the Classical Association, even beyond the intrinsic importance of their contribution to literature itself and to our knowledge of Greek literature. I do not want to exaggerate the value of that contribution, and in the estimate I have given of the principal discoveries I have tried to be as judicial and dispassionate as possible; but on the lowest estimate the gain is great and important. Further, it supplements and corrects the balance of the artistic and archaeological discoveries to which allusion was made at the beginning of this paper. There was at one time a danger lest literature should be neglected for the newer charms and mere fertile fields of archaeological research, but the papyri of Egypt have redressed the balance. The interest which was being attracted to pusherds has been recalled to papyri. We have substantial new works of poetry to set against the Hermes of Olympia and the Charioteer of Delphi; we have new histories to compete with the histories revealed by the excavations of Troy, of Mycenae, and of Crete. And both branches together, literature and archaeology, confront those who would depreciate classical education with. ever increasing evidence of the anageing vitality of Hellas. Truly, for all those who love literature and who recognise in Greek literature the highest expression of the human mind, the deserts of Egypt have blossomed as the rose. F. G. KENYON.

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The Oxychynchus Papyri, ed. B. P. Grenfell and A. S. Hunt. The largest and most important of all collections of papyri. Principal texts (all fragmentary) as follows: Vol. i. (1898), Logia Josa; Sappho. Vol. ii. (1899), Menander, Representational Principal Vol. iii. (1993), Pindar, Oder; Menander, Kobağ, Vol. iv. (1904), Logia Jemi; Pindar, Raphiesum, Epitoms of Livy. Vol. v. (1908), Pindar, Process; Anonymi Hellowicz; Plato, Symposium; Incorntes, Principalities, Vol. vi. (1908), Euripides, Hypospile. Vol. vii. (1910), Callimachus, Aetia and Iambi. Vol. viii. (1911), Carandes. Vol. ix. (1912), Sophocies, Ichaeutas and Eurypyles (f). Vol. x. (1914), Sappho: Menander, Europeasers; and Kehağ. Vol. xi. (1915), Bacchylides, Scoliu; Callimachus, Aetia and Iambi. Vol. xii. (1916), Non-literary.

Berliner Klassikertexte

Vol. i. (1904). Didymus, Comm. in Demotheness, ed. H. Diels and W. Schubart.

Vol. ii. (1905). Ammymi Cown, in Philomis Thurstelmer, ed. H. Dinis and W. Schubart.

Vol. in. (1995). Medical and Scientific Fragments, ed. K. Kalbifelisch and H. Schime.

Vol., iv. (1906). Hierocles, 'Héboy Xracyciaore, ed. H. von Arnim.

Vol. v. (1907). Dichterfragmente, ed. W. Schubart and U. von Wilamowitz-Moellen-dorff. Pt. I. Epische und Elegische Fragmente: Hosiod, Karakeya: Aintus: Eurphorion; Nomus: late epies. Pt. 2, Lyrische und Dramatische Fragmente: Sapplie; Corinna: Euripides, Ordina, Phoellon, etc.; Aristophanes.

Vol. vi. (1910). Altehrisiliche Texte, ed. C. Schmidt and W. Schubart (Ignatius,

Hormas, etc.).

Classical Texts from Papyri in the British Museum, ed. F. G. Kenyon, 1891 (Herodas, Hyperides in Philippidem, Demosthenes, Isocrates, Homer, Tryphon).

The Flinders Petrie Papyri, pt. 1, ed. J. P. Mahaffy, 1891 (Euripides, Autiope; Plato, Phosico);

The Amherst Papyri, ed. B. P. Grenfell and A. S. Hant-

Pt. 1 (1900). Theological fragments. Ascumion of Isaiah; Psalms.

Pt. 2 (1901). Classical fragments and non-literary documents, with additional theological fragments. Hermas.

Heidelberger Papyrus-Sammlung

Vol. i. (1995). Die Septusginta-Papyri, ed. A. Deissmami.

Vol. iv. (1911). Griechisch Literarische Papyri: Ptolemaische Homerfragmente, ad. G. A. Gerhard.

The Tebtunis Papyri, vol. ii., ed. B. P. Grenfell and A. S. Hunt, 1907 (Diotys Cretansis).

Grock Papyri in the John Rylands Library, ed. A. S. Hunt, vol. i. 1911 (Fragments: Homer, Odyssey, xii.-xiv., xviii.-xxiv.).

Papiri greco-egizii, ed. D. Comparstii and G. Vitelli, vol. ii, fasc. 1, 1908, Papiri lettecari (fragments).

THE VALUE OF PAPYRI FOR THE TEXTUAL CRITICISM OF EXTANT GREEK AUTHORS.1

An excellent survey of the evidence of Greek papers for purposes of textual criticism together with some cautious generalizations was given by Sir Frederic Kenyon in the Transactions of the British Academy, 1904. The following paper gives a sketch of the present position of the question in the light of both his article and the new evidence which has account in the

last 14 years.

In literary papyri from Egypt the proportion of extant to new texts is very small in the Ptolemaic period (E.C. 323-30), when apart from Homer, Euripides, Plato, and Demosthenes that all too scanty portion of Greek literature which has survived did not yet stand out very conspicuously from the rest in popularity. In the Roman period (E.C. 30-A.D. 284) the proportion of new to extant works represented in literary papyri is more in the direction of equality, while in the Byzantine period (A.D. 284-640) after the general adoption of Christianity there was a rapid decline of interest in classical studies, and by the 6th century not very many lost classical works seem to have been commonly studied in Upper Egypt, from which the papyri come. In 1904 Sir Frederic Kenyon was dealing with 189 papyri of extant works, of which 109 belonged to Homer, 80 to other authors. Now, however, nearly 300 more have to be added, of which about 120 represent authors other than Homer, so that the material for examination is more than double.

The papyri of Homer, who claims over half the whole amount, fall into two classes. There is on the one hand a group of 9 MSS, belonging to the 3rd or 2nd cent, a.c. which are remarkable for (1) containing a number of additional lines not found in the common text, (2) generally at the same time omitting a few lines which are usually read, and (3) having many new variants in lines which are common to the early papyri and the ordinary text. On the other hand the great mass of Homeric papyri from the 2nd cent, a.c. down to the 7th cent, contain the vulgate text in substantial agreement with the veilum MSS (which date from the 10th cent, onwards),

(Berlin, Weidmann, 1918), and V. Martin in Les manuscrits antiques des classiques grees (Geneva, Kundig, 1919).

A paper read to the Helianic Scenty, May 7, 1918. The subject has since then been briefly treated by W. Schulard in ch. v. of his Einfahrung in die Papprasbunde

though presenting occasional novelties, of which a few have been accepted by Mr. Allen in the Oxford Homer. The first of the abnormal texts to be discovered was a fragment of Il, xi. (P. Petrie i. 3), which has 5 new lines and omits 3 old ones in the space of 36 lines. A Geneva fragment of II. xi-xii." has 9 new lines out of 70, and considerable alterations in 5 others, Then numerous pieces of 3 other early Ptolemnic papers of the Riad (from iii.-v., viii., and xxi-xxiii.) were found by natives in 1895 and sold partly to to me,3 partly to Heidelberg.4 Several years later Prof. Hunt and I were fortunate enough to track the source of these fragments (a tomb at Hibeh) and secure the rest of the find." There are now parts of over 600 lines from these 4 Hibeh papyri so that a fairly good idea can be obtained of the text which they represent. About 10 per cent, of new lines are added, and 2 per cent omitted. A 1st cent B.C. fragment of II xviii (Berl klass Texte v. 1 p. 18) containing parts of 17 lines, is remarkable for inserting a new line after line 606 and four new lines derived from the Shield of Hesiod after line 608. For the Odyssey there are (1) a 3rd cent, a.c. papyrus from Hibeh (No. 23), containing 28 lines of xx., of which 3 are new, and (2) two papers of the 2nd cent RC (Nos. 695-6 of the forthcoming Part in of the Tebtunis Papvri). One of these (Od. i.) has I new line out of 23, the other (Od. iv.-v.) 14 new lines out of 180, or 1 in 13. These are the only Ptolemaic papyri of the Odyssey; and while in the case of the Biad papyri with the same number of lines as the valgate make their appearance side by side with the longer recensions in the 2nd cent s.c., e.g. P. Tebt 4, P. Fay, 4, and three papyri (from 1., vi., and xxii.) in P. Tebt. iii., the evidence for the normal text of the Odyssey in papyri does not yet go back further than the latter part of the 1st cent. R.C. (P. Oxy, 783 from xvii.)

The first discovery of these striking variations in the earliest papyri of Homer led to the advance of far-reaching claims that the Homeric valgate was really the creation of Alexandrian scholars; but this view was strongly controverted in 1898 by Prof Ludwich in Die Homerculgata als varalez-andrinisch erwiesen. The objects of that work were to maintain (1) that the early Homeric papyri did not represent the normal pre-Alexandrian condition of the poems, (2) that to judge by a detailed investigation of the Homeric citations in writers of the 5th and 4th cent. s.c. the texts used by them substantially agreed with the valgate, and (3) that variations in the so-called 'eccentric' texts represented by the papyri had no critical value. Ludwich's views obtained the approval of Sir F. G. Kenyon in 1904; but the Hibeh evidence was then for the most part not available, and the discussion of the question in 1906 in P. Hibeh, pp. 67-75, which opposes several of Ludwich's contentions, has met with a good deal of support.

[&]quot; Nicole, Rev. Philol zviji, 104.

^{*} P. Grent, lt. 9-4.

⁴ Garbard, P. Heidelberg, Iv. L.

P. Hibeh 19-22, from the same 2 papyri and another of R. ii.-iii. P. Rylands 49, a small fragment of xvi. with the beginnings of

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il lines, containing I now reading, perhaps belongs to the same find.

^{*} Cl. Murray, Rist of the Greek Epin, pp. 302-12; Gerhard, P. Heidutherg, r. 1, pp. 1-7; Schubart, Ristführung, pp. 91-2.

Briefly the position may now be summed up as follows. In the face of the evidence that all the 3rd cent BC papyri and many of the 2nd cent BC. papyri of Homer exhibit striking divergencies from the vulgate, especially in the direction of a longer text, it must be admitted that, if the vulgate existed in the 3rd cent R.C. it was not yet the prevailing text in Egypt. What evidence is there that it did exist before a.c. 200 ! Ludwich relies on the citations of Homer in 5th and 4th cent. S.C. authors, because out of 480 verses in all cited by them, only 9-11 are not found in the vulgate, whereas in the papyri the corresponding figure would be about 60. But against this must be set the fact that (I) the distribution of new lines in the papyri is very uneven, and they often have long passages without any additional lines. at all; (2) most of the quotations are quite short, and of the 25 authors whom Ludwich claims as supporting the vulgate, only 7 are represented by more than 3 quotations covering 10 lines in all, while 3 of these 7 make citations containing extra lines. One of the most striking is Aeschines' version of IL. xxiii. 77-91 with 4 additional lines, and it is very significant that from a Heidelberg papyrus containing part of that passage, he is now known to have been quoting a text which agreed with the early Ptolemaic papyri. Since the text of the paper was good enough for Aeschines and apparently. the author of the Pseudo-Piatonic Alcibiades ii. which has a quotation from II. viil. with 4 additional lines, to say nothing of Plutarch, who quotes Il. xxiii. 23 with an extra line found in the text of P. Grenf 4, Ludwich's conclusion that the vulgate was already predominant in the 5th and 4th cent s.c. rests on a very slender foundation. With regard to the character of the new lines inserted, their literary value is certainly not high; for they mostly consist of tags from parallel passages. The only new reading of these papyri which is generally accepted is still and be 'los (as conjectured by Field in Il xxiii. 198 (P. Grent ii. 4), which is distinctly better than the vulgate reading area 8" Tore, because it preserves the digamma before Tore, But even Homer sometimes nodded, and since the repetitions are already so numerous in his poems, a few more, though displeasing to our literary taste, may nevertheless be primitive. That the rhapsules liked them is clear enough. It is, moreover, not the case that other literary paperi of the 3rd cent: n.c., found with the Homeric, present specially poor texts. On the contrary, taken as a whole, 3rd cent R.C. literary texts, just like the nonliterary documents of that age, decidedly tend to be more correct than those written in later times, when the Greeks who settled in Egypt under the first Ptolemies became Egyptianised. House the earliest Homeric papyri, however disconcerting, are entitled to much more respect than they received from Ludwich

But if the supremacy of the vulgate was not yet acknowledged in the 3rd cent. a.c., and if even its existence side by side with the longer text found in the papyri is not certainly attested before a.c. 200, why did the vulgate prevail in the course of the 2nd cent. a.c.) Formerly I was disposed to admit that it existed before a.c. 200 as a text competing with the longer recensions, but now I am more sceptical on that point. In any

case the Alexandrian Museum must, I think, have been in some way responsible for the predominance of the vulgate; if not for its production-The main objection to that hypothesis is that, as far as our knowledge of the early Homeric critics, especially Zenedotus and Aristarchus, carries us, their readings do not seem to have had much influence on the vulgate, which went on into mediaeval times practically undisturbed. To this, however, it may be replied that though we know, mainly from the scholia on the sulgate, that Zenodotus and Aristarchus tried, but in vain, to eliminate a number of lines from the received text of Homer, we do not unfortunately possess any commentary upon the longer recension; and if the Alexandrian Museum, as seems probable, influenced the texts which circulated in the 3rd cent. B.C., the omission of a number of lines on the authority of the Museum may well have taken place without creating the necessity for the fact to be definitely recorded in the scattered fragments of information about early Homeric criticism which have survived. The hypothesis that the vulgate text of Homer, as we have it to-day, was really an edition, for the prevalence of which the Alexandrians were responsible, will at any rate account for the fact that it is ignored in the papyri of the 3rd cent. B.C., when the text was evidently in a very unsettled condition.

Of Hesiod's extant works the four purivri discussed by Sir F. G. Kenyon are all of the 4th or 5th century. Of these the Vienna papyrus (Stud zur Polacogr. i. 11), containing 373 lines divided between the Theogenius, Works, and Shield, has a good test generally supporting the better class of MSS. but with very few new readings of importance. Two modern conjectures are confirmed. Hermann's ovide at for ov yap of in 1, 15 of the Shield, and Nanck's & Déues for & Deliv in 1. 432. The Geneva fragment (Rev. Philol. xii, 113), containing 38 lines of the Works, is chiefly remarkable on account of traces of four additional lines which had apparently been ejected by ancient critics. The Paris fragment of Theog. 74-145 (Sitzungsber Berl. Akad 1887, 809; has some interesting readings, verifying two conjectures (Peppmuller's es for te in 1.87 and Guiet's toky for old te in 1.93), and supporting several quotations against the MSS. P. Brit. Mus. 159 (Rev. Philol. xvi. 181), which has 40 lines of the Theogonia, is unimportant. Of the six mostly small, Hesiodic fragments found since 1904 P. Oxy, 873 (parts of 20 lines of the Theog.; 3rd cent.), Berl. klass. Texts. v. 1, p. 46 (parts of 12 lines of the Works; 5th or 6th cent.), P. Soc. It. 15 (parts of 5 lines of the Shield; 4th or 5th cont.), and P. Oxy. 689 (the last 15 lines of the Shield; 2nd cent) are also unimportant; but P. Oxy. 1090 (Works, 257-89) is valuable not only on account of its early data (late 1st cent.), but for 5 new and sound readings, of which 3 confirm small emendations (263 Buothing for - Leig or - Lines, 264 beken for beken, 268 theky for thekyno'). P. Ryl. 54 (Theog. 643-56; about A.D. 1) is even earlier, and in 1 656 supports Hermann's 5 vos in place of 5vs, but the 3 other new readings are of more doubtful value. The Hesiodic papyri as a whole carry back the ordinary tradition from the 12th or 13th cent, to the 4th, since which time it has clearly undergone no material change. So far as the 1st cent. evidence goes, it exhibits a good many minor improvements upon the text of the vellum MSS, which seems to have been rather dumaged in the course of transmission.

The 1st cent papyrus of the 'Λθηναίων Πολιτεία contains three quotations from Solon (41 lines in all) which are known from Plutarch or Aristides. Here there are probably 7 cases in which new readings of the papyrus are right, the most striking being ἀλεήν... ποιούμενος for ἀρχήν... ενκεύμενος, and χρειοῦς φυγόντας instead of χρησμάν λέγοντας, for which Sitzler had

proposed δρησμον φυγύντας.

The lost poems of Pindar occur in several papyri of the Roman period, but apart from a small 3rd cent fragment of scholia on Py. 2 (Sitzungsher. Berl. Abad. 1918, 749), which is of no importance for the text, the only papyrus of the extant Epinician odes is the recently published P. Oxy, 1614. This contains parts of about 170 lines from Ol. i., ii., vi., and vii. (5th or 6th cent.). The MSS of Pindar, none of which is older than the 12th cent, are divided into two families; the text is generally thought to have been preserved with considerable care owing to the efforts of grammarians, and to have undergone comparatively little change since the 2nd cent, to which the extant scholia are referred, and before which as quotations show, it was far from fixed. This view is supported by the papyrus, which carries back the evidence for 6 or 7 centuries, and is very close to the text of the best MSS, agreeing somewhat oftener with the Vatican family than with the Ambrosian. An interpolation in Ol ii 29-30 is already present. New readings are scarce, and only one πατρώι αν τώνο έχει in place of πατρώιον τώνο έχει in ii. 39-40- is of much value.

With regard to the dramatists, Asschylus is still unrepresented in papyri, so far as his extant plays are concerned; while those of Sophocles are represented only by a couple of 5th cent. pieces of the Oedipus Tyronnus (375-85, 429-41 in P. Oxy. 22 and 56 lines from 688-1358 in P. Oxy. 1369), and three earlier scraps of other plays, one of Antigone 242-6 (P. Oxy. 875; 2nd cent.), one of Electric 993-1007 (P. Oxy. 693; 3rd cent.), and now one of Ajax 694-705, 753-64 (P. Oxy. 1615; 4th cent.). The last has in 1, 689 an interesting new reading, Musica for Nosia, which seems to have been known to Suidas, and the Electra fragment in 1.995 agrees with a late MS. in having rore Bleyara, which is better than the admary reading wor' έμβλέψασα. Much the longest of the Sophoclean papyri is P. Oxy. 1369 The novelties are inconsiderable consisting of eußarevear for eußareven in L 825, and a doubtful confirmation of an emendation in 1 1310, διαπωτάται in place of the corrupt Staverarus. But in four places the papyrus agrees with the later MSS against the Laurentianus, which is a fact of some importance for Sophoclean criticism. The view, which has been widely held and to a large extent influenced Jobb, that L was the ultimate source of the later MSS, has now received its coup de grace, and it is clear that the later MSS, preserve an independent tradition which is sometimes botter than that of L

Euripides was more widely read in Egypt than the other tragedians,

and there are now 21 fragments from 10 of his extant plays on paperi or ostruca," though many of them are quite small. Of the Ptolemaic fragments the best is the earliest, P. Hibeh 24 from the Iph. in Touris. Two emendations are confirmed, carreyoures (Reiske) for cal regovers in 1, 252 and roade for theore (Bothe) in 1.1618, and in II. 587 and 621 new readings of value occur, one of them, erelicora in place of bloods, nearly coinciding with a conjecture of Machly Gewovoa. The extract from the Electra in P. Hibeh 7 has in L 373 Stoplars instead of StakaBios, one of the words being probably a gloss on the other, and in 1.374 rapa for y apa (y apa Wecklein). A 2nd cent. B.C. fragment of the Medeo is full of blunders, and the text of P. Oxy. 1178 of the Ovestes (1st cent B.C.) is not good. Of the papyri of the Roman period the most valuable are two Oxyrhynchus fragments of the Phoenissae. At the end of 1, 171 the MSS, have vis moder copei, giving an iambus too much and editors had generally followed Valcknaer in omitting woθer, while P. Oxy. 1177 omits αυρεί, which is likely to be right. In 1. 181. the MSS, again have a foot too much, which is usually remedied by the omission of ἐπνά, a correction confirmed by the papyrus, which in 1, 226 verifies a slight emendation made by Byzantine scholars on metrical grounds. 2 for lie Similar corrections of unmetrical passages are noticeable in P. Oxy. 224 L 1036, Inchier Boar for liner Boar (editors had proposed liner Boar Bodr), I. 1040, ayar for taya (aya Musgrave), I. 1041, wokees for wokens (so Porson). With regard to the Byzantine period, the longest fragment of Euripides, containing 270 lines of the Hippolytus, exhibits no variants of much importance, but P. Oxy, 1370 of the Orestes, besides an interesting new reading συλλεκτρος for ομολεκτρος, in | 508, confirms an amendation of Weil in 1 1340, αγ & τραφείσα for άλλ & τρ. The MSS of Euripides are few /for several of the plays only two) and not very good, so that it is a matter of some interest that the papyri support the received text as much as they do. But in the 3rd cent not the text seems to have been considerably less corrupt than in the mediaeval MSS.

Aristophanes is in much the same position as Sophocles. Apart from P. Oxy. 856, some late 3rd cent scholia on the Acharmians which are of no value for the text, the 12 papers from 9 of his plays are all of the Byzantine period, chiefly 5th cent. The principal fragments are Berl. klass. Texte, v. 2.

cant.); 389-45, Mittheal. P. Ram. v. 65 (about a.n. 1); 100 lines scattered over 445-1371, P. Oxy. 1370 (5th cent.); 1962-90, Res. Philat. xix. 105 (2rd cent.); 1318-60, P. Oxy. 1178 (carly lid cent. a.g.); Phoenisare 107-18, 128-39, Crass. Ren. xviii. 2 (2rd pent. a.g.); 171-84, 220-8, P. Oxy. 1177 (carly lid cent. a.g.); 171-84, 220-8, P. Oxy. 1177 (carly lid cent.); 1007-1107, 1126-37, Mittheal. P. Reimer v. 74 (5th cent.); 1017-43, 1064-71, P. Cray. 224 (3rd cent.); Rhean 48-96, Sitmapaber Berl. Akad. 1887, 813 (4th or 5th cent.); Tyondes \$76.9, Berl. Mins. Texts. v. 2, p. 98 (integent.)

⁷ Canalusing chorus of the Alexans, etc. P. Hibsh 22 (Red cant. n.c.); Kleeren 367-79, P. Hibsh 7 (late 3cd cent. n.c.); Kleeren 367-79, P. Hibsh 7 (late 3cd cent. n.c.); Hernist 700-3, 737-40, P. Oxy, 876 (5th cent.); H252-80, P. Oxy 877 (3cd cent.); Hyppolytus, Best. Rines Texts v. 2, p. 88 (243-430, 482-515; 6th f cent.), and p. 96 (616-24; 23cd cent.); Ighig. is Funcis, P. Hibsh 24 (85 lines scattered over 174-629; before n.c. 240); Meden 5-12, P. Weil Oxfore n.c. 161); 20-6, 57-83, P. Oxy, 1370 (5th cent.); 507-17, 545-00, Best. Mac. Texts v. 2, p. 97 (5th cent.); 710-5, P. Oxy, 450 (3cd cent.); Oxyste 53-61, 89-87, P. Oxy, 1616 (5th

p. 99 (130 lines of the Acharnisms, 66 of the Frogs, and 16 of the Birds), P. Oxy. 1374 (150 lines of the Wasps), and a (vellum) fragment with 56 lines of the Birds (Rev. Philot. vi. 179; 6th cent.) Quite a number of small corrections made by modern scholars, mainly on metrical grounds, are confirmed. Thus in Acharnians 912, where the MSS, have to dai sasor matter, the Berlin papyrus has Bentley's conjecture Ti be in 1. 917 Klusley's θρυαλλίδα (θρυαλλίδας MSS); and in L 928 Brunck's φερόμενος (φορούμενος MSS.) P. Oxy. 1374 confirms Brunck's emendation γράφομαε for γράψομαι in Wasps 576, and Bergh's ἐνέθηκε for ἐπέθηκε in l. 790; while P. Oxy. 1373. which perhaps belongs to the same codex as 1374, supports Blaydes's suggestion executo for executor in Knights 1017. In Birds 1069 the Paris vellum fragment has δάκετα πάνθ' δσαπερ, as conjectured by Dissen, in place of δάκεθ' δσαπερ; and in 1 1078, where the MSS, have ζώντα άγάγη and Burges restored the metre by inserting y after corra, it has corr amayayy, which is probably right; while in 1, 1080 it omits a superflows mage added by the MSS after Selector. But on the whole the paper of Aristophanes are not very accurate, and are more remarkable for their agreements with the ordinary text where the correctness of it has been suspected than for new readings. The two chief MSS of Aristophanes, the Bavennas and Venetus, receive much more support than the others, and it is noteworthy that several of the papyri, especially P. Oxy. 1374 and 1617, support the Venetus against the Ravennas, which has usually been regarded as superior.

The fragments of Theocritus from Egypt have until quite recently been very exiguous and unimportant and P. Oxy, 1618 is the first serious contribution of that country for the text of the Ldylls, which is often corrupt, the MSS, being late and poor (K and M, both of the 13th cent, are considered the two best). The papyrus, which contains 180 lines from Id. v., vii., and xv., is of the 5th cent, and does not present a very correct text. In v. it supports K against M, but in vii the opposite tendency is noticeable. In v. and vii. new readings are rare, being confined to vii. 75 air thiorro for αίτε φύοντε, vii. 112 "Εβρω πάρ ποταμώ for Εβρον πάρ ποταμόν (both easier than the reading of the MSS.), and vii. 92 in upers for an upea. In xx., however, where the text is much more uncertain, there are several novelties of importance. Chief of these is [πέρυ]σιν in 1. 98, confirming Reiske's conjecture for the corrupt o menyer or menyer of the MSS. Other valuable readings are by her and been in 1.72, which seems to account for the variants of the MSS, all corrupt at this point; δ κήν 'Αχέροντι ψιληθείς instead of δ κήν 'Αχ. φιλέται in 1.86, μη αποπλαγχθής for μή τι πλανηθής in 1.67;

217 : Plutne 1 56, P. Oxv. 1617.

The other papers are Chands 1-11, 38-48,
 P. Oxy, 1371; 30 lines from 1-7-972, Berl-Russ, Texte v. 3, p. 108; 045-1014, op. cit-p. 110; 1871-1428, Hermes saxv. 002; Proge 44-50, 85-91, 840-902, P. Oxy, 1372; Knights 5-45, 86-95, Melanges Nucols 212; Knights 6-15, 1013-7, 1057-62, Proce 1226-35, P. Oxy, 1373; Lysistenta 433-47, 469-84, Mel. Nic.

^{*} xiii. 19-34, P. Oxy, 694 (2nd cent.); soraps of i., iv., v., xiii., ev., xv., xan, at Vienna and Paris (Wiener Steel, 1888, 220 + Minchell P. Rainer ii. 18; 5th oc 6th cent.); xi. 20-4, xiv. 59-63, Beel. Mass. Texts v. 1, p. 55 (7th cent.); scholia es v. 38-49, op. cel. p. 56 (1st or 2nd cent.).

ells for ell ri in 1, 70; halebous for halebous in 1, 92. The papyrus is an interesting specimen of a text which stands apart from the existing families of MSS, and was at least as good as that of K. That in the later posms from xiv. onwards the text of Theocritus has suffered considerably since the 5th cent, is now probable, but the earlier poems do not seem to have undergone much change between the 5th and 13th centuries. Fresh light on this subject will soon be thrown by Mr. J. do M. Johnson's publication of the long 5th or 6th cent, papyrus of the later poems discovered by him at Antinoopolis.

Of Apollonius Rhodius the eight papyri of are all small, but in several cases interesting as confirming emendations. Thus P. Oxy. 690 (iii. 727–45; 3rd cent.) has in 1. 745 ναντίλοι είς 'Ελίκην with Porson against ναύται είς 'Ελίκην with Porson against ναύται είς 'Ελίκην with Stephanus for κατά of the MSS. P. Oxy. 691 (iii. 908–14; 2nd cent.) in 1. 909 has μετά with Stephanus for κατά of the MSS. P. Oxy. 874 (iii. 263–72; 3rd cent.) confirms Brunck's emendation -σιν έλεσθε in 1. 263 against -σι νέεσθαι or νέεσθε of the MSS. P. Amherst 16 verso (i. 775–94; 2nd or 3rd cent.) has three new readings, of which at least two. πόλοια κατά στίβον for πόλησς ἀνά στίβον in 1. 781 and θύρας for πόλας in 1. 786, are improvements.

Of Aratus' Phasmomena, besides an unimportant 4th cent fragment of 741-53, 804-16 in P. Brit. Mus. 273 (Class. Quart. 1907, I), there is a 1st cent papyrus containing 160 lines between 642 and 934 (Berl. klass. Texte v. 1, p. 47). This is eight centuries older than the best MS, the Codex Marcianus, and has a number of new readings, but as a whole is distinctly inferior to that exceptionally good text. Three conjectures, however, are confirmed: Buttimaun's αγουσα for λούσα in L. 736, Voss's λμπλήσσει for λμπλήσσει in 1. 750, and his φαίνωνται for φαίνονται in 1. 870. Some scholia on Arutus (Berl. blass. Texts iv. p. 54) are valueless.

A 4th cent fragment containing Oppian's Haliculica v. 104-19, 142-57 (Berl. klass: Texts v. 1, p. 80), is unimportant, the novelties being only blunders; but a long 7th cent papyrus (op. cit p. 94), containing 277 lines of Books xiv.-xvi. of the Dionysiaca of Nonnus (himself an Egyptian), is of much interest. The mediaeval tradition appears to rest on a single Florentine MS, written in 1280, which is full of corruptions, due in large measure to reminiscences of other passages. The papyrus has a number of new readings which are right (e.g. beiθροις for κυπέλλοις in xiv. 437, and δλλος for καί τις in xx. 70), and confirms in a striking manner several conjectures which were not based on similarity of letters. Thus, in xiv. 393, where the MS has ἀκωκήν and Graefe conjectured κολώνην, it has ἀκωκήν corrected to κορώνην, i.e. κολώνην, and then back to ἀκωκήν, a word which has come in from the end of l. 394. In xiv. 398 the papyrus establishes Graefe's φελοσταφύλω against πολυσταφύλω, and in xv. 87 his οἰνωθέντες for οἰνηθέντες, while in xv. 112 occurs a remarkable reading, ελαίης in place

ii ii 101-10, P. Osy. 1179 (3rd (ont.); iii.
 145-61, 173-91, Hermss xxxv. 605 (7th ennt. !);
 iii. 1085-63, P. Oxy. 1243 (2nd cont.); iv. 77-

^{90,} P. Oxy. 692 (2nd cent.), bearing the four which are referred to above.

of 'Aθήτης, as conjectured by Köchly. Γλαύκοιο for Βάκχοιο in xv. 165 is another striking confirmation of a conjecture, this time by Falkenburg; and in the same line Köchly's μαχηταϊς for μαχητάς is established. Traces of a new line occur after xv. 228, where G. Hermann had supposed the loss of a verse. Altogether, the papyrus is very encouraging in its support of the freedom which has been employed in the emendation of Nonnus.

A papyrus of the 11th, 16th, and 17th fables of Babrius, with a Latin translation, written about A.D. 300 (P. Amh. 26) is inferior to the unique 11th cent. Codex Athous of that author, from which it offers some minor variations; but the 2nd cent. P. Oxy. 1249, containing parts of Fab. 43, 110, 118, and 25 in that order, though not providing much in the way of new readings, is important because (1) it shews that Babrius, whom Crusius wished to bring down to the beginning of the 3rd cent, must have written within the 2nd cent, if not the 1st; (2) the alphabetical arrangement of the fables found in the Codex Athous and Amherst papyrus is ignored, and therefore is presumably not original; (3) while the prose epimythia are absent in Fab. 110 and 118, the metrical epimythion of Fab. 43 is present, so that the question of the genuineness of some of these epimythia requires to be reconsidered.

Of epigrams known from the Anthology, parts of 8 occur in papyri, 5 by Meleager in Berl. klass. Texte v. i., p. 75 + Sitzungsber. Berl. Akad. 1918, 750 (1st cent.), 1 by Leonidas of Tarentum and 1 by Antipater of Sidon in P. Oxy. 662 (about a.o. 1), and 1 by Alcaems of Messene in P. Tebt. 3 (early 1st cent. s.c.). They commin hardly any variants (δορφ for δοραῖς in Anth. Pal. v. 152, Sitzungsber. l.c., confirming a conjecture of Pierson; Βραγείονας for ἐπωμίδας, P. Tebt. 3 in Anth. Pal. ix. 588).

A fragment containing Sibylline Oracles v. 498-505, 517-23 (P. Flor. 389; 4th cent.) is much more valuable, showing great superiority to the text of both families of the vellum MSS. Thus in I. 500 στεροπῆα is clearly right, as against the reading of the MSS. γενετῆρα, which has come in from I. 498; and in I. 502 κεῖσε δὲ τὰς explains the corrupt readings of the MSS. κεῖς αὐτὰς and κεῖς αὐτὰν. The irrelevant I. 503 κεῖνοισιν δώσει θεὸς ἀφθίτως βιστεύειε disappears, and in its place are two new verses, while the inversion of II. 516 and 517 confirms a conjecture of Gefficken. In I. 519 ἀφείλετο is superior to ἀφήρπασε, the reading of the MSS, which is probably a gloss.

To come to prose authors, the longest and probably oldest papyrus of Herodotus is the recently published P Oxy. 1619, which contains 220 lines scattered over iii. 26-72, written about A.D. 100. The mediacval MSS are divided into two main groups, the Florentine, headed by a 10th cent. MS, and the Roman, which is all 14th cent. Stein adhered to the older group, regarding unsupported readings of the Roman family, which had been preferred by Cobet, as conjectures; but Hade puts the value of the two families nearly on an equality. The papyrus, in which the agreements with the older group are nearly twice as numerous as those with the younger, affords a substantial justification of Hude's edectic method in reconstituting the text. The tendency to attest the antiquity of suspected interpolations.

which is so often exhibited by papyri, is illustrated in two cases; but in ch 32, where the repetition of the same word σπόλαξ had caused a difficulty. P. Oxy. 1619 omits the word in the third place in which it occurs in the MSS. while modern editors wished to omit it in the second; and in ch. 36 the redundancy of the expression of πολλώ μετέπειτα χρόνω ύστερον is remedied by the omission of varepov, while another omission occurs in ch. 72. The other new readings are less unportant, partly concerning the dialect, in which respect the papyrus is not conspicuously more correct than the MSS. The next longest papyrus, P. Oxy. 1092 (late 2nd cent.), which contains about 140 lines from it. 154-175, has similar characteristics, standing midway between the two groups of MSS, confirming one commonly accepted emendation (ola for oi) in ch. 175, and presenting a few not very striking novelties in the body of the text. In the margin, however, of ch. 162 an alternative version of several lines is given (ούτως έν τισιν άλλοις) from a recension which has left no trace in the MSS. The other 8 papyri 11 are all small, and belong to the 2nd or 3rd cent., except P. Manich (Arch. f. Papyrusf. i. 471 : 1st or 2nd cent.), which has some minor improvements (¿o jie for ¿o je and λευθεριωτέρη for έλευθερωτέρη). The main result of the discovery of papyri of Herodotus is to dispose of the view that the families of MSS, represent very ancient recensions, since the division of the MSS, into two groups evidently took place not earlier than the 4th cent. By the 1st cent the text of Herodotus had reached a condition which, even as regards the dialect. is only slightly better than that recoverable from a combination of the two families.

Papyri have made much more difference to the textual criticism of Thucydides than to that of Herodotas. Up to 1915 there were 18 published fragments, 7 being quite small; a detailed discussion of their relation to the MSS is given in P. Oxy, xi. pp. 156-64, and 4 more have been recently published. The mediacval MSS form two main groups headed respectively by C (10th cent.) and B (11th cent.), which after vi. 92 branches off by itself into a number of peculiar readings, so that it has generally been supposed to represent here a different edition. The earliest papyri, which are of the 1st cent., P. Oxy. 16 + 696, 225, and 878, tend to support the C group; but

a; 76, P. Oxy. 10; 1. 105-6, P. Oxy. 18 and 1244; 1 115-6, P. Munich; ii. 86-8, 107-8, P. Byl. 55; v. 78-82, P. Brit. Miss. 1109 (Viljom. Revolute frequencies as propersecrate p. 44); v. 104-5, P. Oxy. 695; vii. 186-7, P. Oxy. 1375. Cr. P. Ambers. 12 (3rd. cent.), from Aristarchus communitary on i.

is 1, 11-4, P. Oxy. 1620 (2nd or early 3rd omit.); i: 139-41, P. Oxy. 1245 (4th earl.); communitary on ii 1-45, P. Oxy. 852 (late 2nd earl.); ii. 2-15, P. Geneca 257 (3rd out.); ii. 7-8, P. Oxy. 17 (2nd or 3rd cent.); ii. 11, 35, P. Oxy. 1621 (4th cent.); ii. 22-5, P. Oxy. 878 (late 1st cent.); ii. 59-60, P. Oresson 12

⁽⁴th or 5th cont.); ii. 65-7, P. Oxy. 1622 (marly 2nd cont.); ii. 73-4, P. Oxy. 451 (3rd cont.); ii. 90-1, P. Oxy. 223 (1st cont.); iii. 7-9, P. Oxy. 1623 (5th or 6th cont.); iii. 58-9, P. Oxy. 1623 (5th or 6th cont.); iii. 58-9, P. Oxy. 1623 (5th or 6th cont.); iii. 28-41, P. Oxy. 16+896 (but cont.); iv. 87, P. Oxy. 452 (late 2nd cont.); iv. 82-4, 40, P6-5, 103-5, 111, P. Oxy. 880 (late 2nd cont.); iv. 80-3, P. Oxy. 1180 (3rd cont.); iii. 32, P. Oxy. 453 (early 2nd cont.); iii. 54-68, 72-3, 78-81, P. Oxy. 1376 (late 2nd cont.); iii. 8-41, P. Oxy. 1247 (2nd cont.); iii. 92, Wiener Scot. viii. 116 (7th cont.).

the chief 2nd cent papyri of the earlier books, P. Oxy, 853, 1247, and 1620, rather support the B group. P. Ozy. 1376 (vii. 54-82; about A.D. 200). which is much the longest papyrus of Thucydides, stands midway between B and C confirming many of the peculiar readings of B. The effect of the papyri as a whole is distinctly to enhance the value of the B group, which Hude was disposed to place much below the other. Occasional agreements with the later MSS, which are usually ignored, are also noticeable. In the matter of novelties two papyri stand out from the rest. P. Ozy, 16 + 696 has about 20 substantial variants, nearly all of which have been adopted as improvements by both Hade and Stuart Jones. The most striking occurs in iv 37 where the reading of the MSS. years 30 6 Kasar cal 6 Aqueattings ότι εί και όποσούν μάλλον ένδωσουσι διαφθαρησομένους αύτους . . . έν αυσαν την μάχην provides one of the worst anneolutha in Thucydides. Here the papyros omits 572, as had been proposed by several editors. P. Oxy. 1376 has 26 new readings in vir of which at least 8 are right. Four of these confirm conjectures - orparelas for orparias (Aomilius Portus), an for ijon (Gertz), an omission of Tz (Hude) and the omission of ar in onwe ar ano-AugBaros (Herwerden), and an awkwardly constructed sentence in ch. 68 is much improved by the substitution of circulor loss for biracococci. Similarly in the other papyri of Thucydides P. Oxy. 225, he substituting autroongevas for authorizeros in u. 90, gets rid of an impalishedory construction card Guerri and P. Oxy. 1247 in viii 10 establishes Westermann's insertion of & before 2mrd. P. Oxy. 853, a commentary on ii., has 12 new readings in quotations from the first 40 chapters, one of them confirming Hude's conjecture ouis for quis in 11. 9 as also does P. Oxv. 1621, which in 11. 6 omits the unsatisfactory of two, as proposed by Madvig. P. Oxy. 1620 is remarkable for a number of alternative readings, which are mostly new and in several cases improvements. It is now clear that the tradition of the mediaeval MSS, of Thucydides is decidedly imperfect, and not a few roughnesses of his style are really due to scribes' errors, but on the other hand no extensive alteration of the text has taken place since the 1st cent. Rutherford's theory of large adscripts in iv. due to mediaeval scribes was definitely disproved by P. Oxv. 16 + 696

The historian, however, whose text has in some respects been most affected by papyri is Xenophon. Of that author there are now 15 published papyri, of which one of the most important is P. Oxy. 463 (about a.b. 200), containing Anabasis vi 6. The mediaeval MSS, of this work are divided into two families, and one of them, headed by a 14th cent. MS, called C, was formerly held to be so much superior to the 'deteriores,' headed by a 15th cent. MS, called D, that the latter were almost ignored. But the papyrus, which agrees six times with either group, stands midway between the two, and the same phenomenon occurs in connexion with the Cyropaccia, where the condition of the MSS, is similar. Here a 2nd cent. Vienna papyrus (Mittheil, P. Rainer vi 1) of v. 2-3 agrees 27 times with CH, 30 times with D; and P. Oxy. 697 of i 6, ii. 1 (2nd cent.) 22 times with CH, 36 with DF; while P. Oxy. 1018 of i. 6 (3rd cent.) and P. Hawars of iv. 5 (Arch.)

f. Papyrusf. v. 378; 2nd cent.) agree still more markedly with DF. It is now evident that in both the Anabasis and Cyropstedia the deteriores are as close to the 2nd cent, texts as is the other family, and the extent of the change effected by substituting a mixed text for one based on a single family can be gauged by comparing the recent edition of Marchant, which takes the papyri into account, with those of his predecessors. With regard to new endings, neither P. Oxy, 463 nor another much smaller fragment of the Anabasis, P. Oxy. 1181 (vii. 1; 3rd cent.), presents any of interest; and in the Cyropaedia the Vienna papyrus is the only one which adds much to the large mass of known variants in the text of that work, while none of the 18 new readings is of great importance. Another long Vienna papyrus (Mittheil, P. Rieiner vi. 17) from Hellewicz i 2-5 (3rd cent.), has about 32 pseuliar variants of which Marchant adopts 19; but the improvements are not very striking. The papyrus tends to support B (14th cent.), which is considered to be the best MS. P. Oxy. 227 of Occonomicus 8-9 (1st cent.) stands apart from the families of the MSS, which are 12 centuries younger, and has not a very accurate text; but 7 of its new readings are adopted by Marchant, including verifications in 9, 2 of an emendation by Cobet (the insertion of ye between vijs and oikins), and of one by Schneider (the insertion of the before twag 70% A Munich fragment of Hoper i 5-6 (Arch. J. Papyrusf. i. 473; 2nd cent.) by reading oliciaffar instead of cheffethar removes a longstanding difficulty; and similarly the small P. Giessen 1 (3rd cent.) in Symposium 8. by substituting vaparonous for wapa is weenous, gets rid of a corruption which had builded all editors. The remaining 5 papyri of Xenophon 18 are unimportant.

Plato was studied in Egypt more than any other philosopher, and there are now 19 published fragments from 12 of his dialognes, besides 2 from commentaries on them. The most remarkable are the 3rd cent. s.c. fragments of Phaedo 67-84 and Lackes 189-92 15 which, like the contemporary Homeric papyri, vary considerably from the ordinary text. Thus in Phaedo 680 mulber ever takes the place of sal views, and in 680 2m airing the audoaποδώδη is found instead of περί ταύτην την εὐήθη. In 3 cases the readings of Iamblichus or Stobaeus are supported against the MSS of Plato. These early Ptolemaic variants have not, as a rule, been regarded with favour, and Burnet accepts in the Phaselo only 8 out of about 70 readings peculiar to the Petrio papyrus, and in the Laches 7 out of about 42. The other Platonic papyri are all 1st-3rd cent, the most important being P. Oxy 843, which contains the second half of the Symposium, written about A.D. 200. The three chief MSS, of the earlier tetralogies are B (A.D. 895), T (12th cent.), and W (a Vienna MS., later). The papyrus is, as usual, celectic in its support of the chief MSS and Stobacus, and there are several agreements

¹⁰ Hell. iii, 1, P. Oxy. 28 (2nd sent.); vi. 5, P. Oxy. 226 (1st or 2nd cent.); Oyrop. i. 6-I. P. Oxy. 608 (3rd cont.); Messer, J. 3.
 P. Grouf, E. 13 (3rd es 4th cont.); ii. 1, P.

Soc. Ital, 121 (1st or 2nd cutt.).

¹⁴ P. Patrini, &

P. Patrie II. 50 + Heromthone x. 407,

with the late MSS. New readings are fairly frequent, but most of them are not very convincing. The most valuable contributions are \$\delta'\$ for \$i\pi'\$ in 2017, as in corrections of two late MSS.; the omission of kal in 202a, as proposed by Stallbaum; dr ely in 204b for the meaningless do; the omission of τω before καλώ in 206c, as proposed by Badhum; μετέγα with Stephanus in 2085 for activery, texely with Hug in 2000 for every; and the addition of και σύ before ἔπεσθαι in 210α. There are also two long papyri of the Phaedrus: P. Oxy. 1017 (238-51; about A.D. 200) gives an exceptionally good text with a number of alternative readings from a different recension, one of which, role for row in 239a, confirms a conjecture of Heindorf, some reappear in the MSS, others are new. New readings without variants are also frequent, and several of these are likely to be correct-one establishing a conjecture of Cobst, ¿cecies for cecies or cecies in 251a. The papyrus often preserves the superior reading where either B or T or both (Wis not available for this dialogue) go astray. P. Oxy. 1016 (227-30; 3rd cent.) is less striking, but has several good readings which have hitherto rested on inferior evidence or on conjecture, such as many to with Schanz for many tis in 228b, συ δέ νε for οὐ δέ γε or σὐ οὐ in 230c. Both papyri stand midway between B and T. P. Oxy. 1624 (3rd cent.) of Protagoras 337-57, like P. Oxy. 1017. has been extensively revised, the corrector showing a marked tendency towards omissions. A conjecture of Heindorf in 356c, the insertion of al before Ions, is confirmed by the first hand but rejected by the corrector, who in 357a has a reading that had suggested itself to some early Renaissance scholars, πορρωτέρου και δηγυτέρου for πορρωτέρω και δηγυτέρω. Of the remaining Platonic papyri, P. Oxy. 881 (2nd or 3rd cent.) of Kuthudemus 301-2 and Lysis 208 has a number of small variants, as have P. Oxy. 228 of Laches 197-8 (2nd cent.; 4 of its readings are accepted by Barnet, I agreeing with Stobaeus, I with a late MS.), and 2 papyri of the Gorgias, Mittheil, P. Rainer ii, 76 (504-5; 3rd cent.) and P. Oxy, 454 + P. Soc. It. 119 (507-8 and 522-6; 2nd cent.). More valuable than these are the lemmata in the Theastelus-commentary (Berl klass Texte ii.; 2nd cent.); but out of 18 new readings the editors only recommend 5 as superior to the MSS. one of these, the omission of earn before form yap in 152b, having been anticipated by Ast. The support given by this papyrus to W against BT is very noticeable. The other Platonic papyri 16 are unimportant. The main results of papyri in regard to the text of that author are to show (1) that W is practically as good a MS as B or T; (2) the later MSS have been too much neglected, particularly Vat. 1029; (3) the text of Plato was in a decidedly unsettled condition in the 3rd cent. R.C. So far as the early Ptolemaic papyri go, they vary extensively from the later text, and even in

^{**} Luches 181-2. P. Brit. Mas. 187 curso. (2nd court.): Lopes in 802-3, P. Ony. 23 (before 195); extracts from it. 832-3, Rev. Mass. Texts it. p. 55 (1st cont. m.c.); Phosolo 109, P. Ony. 229 (2nd cont.); Politicus 210-2, P. Ony. 1248 (2nd cont.); Republic in 406,

P. Oxy. 455 (3rd cent.); iv. 422, P. Oxy. 456 (2nd or 3rd cent.); z. 607-8, P. Oxy. 24 (3rd cent.); De virtule 376, Arch. f. Papprag. v. 579 (2nd cent.), Ct the extract from Phasedrus 265 to Red Bass. Taxte ii, p. 52 (2nd cent.).

the 2nd and 3rd cent there is considerable evidence for the continued existence of a different tradition side by side with the ordinary text.

The extant works of Aristotle are represented only by a fragment of Post Anal. i. 71-2 (Philologues xliv. 21; 6th or 7th cent.), containing nothing new, and one of the Protrepticus, most of which corresponds to an extract of this lest work preserved in Stobaeus (P. Oxy. 666; 2nd cent.), and by a small piece of a commentary on Topics ii. 2 (P. Fay. 3., early 2nd cent.). The Protrepticus fragment sometimes supports one, sometimes another of the three MSS, of Stobaeus, and occasionally corrects them all; the citations from Aristotle in the commentary on the Topics offer no variations of interest.

Of a work which in ancient times was attributed to Aristotle, but is now generally assigned to Anaximenes, the 'Pητορική πρὸς 'Αλέξανδραν, there is an important 3rd cent. E.c. papyrus, P. Hibeh 26, containing pp. 15–31. The text of this, though not free from scribe's errors, is very greatly superior to that of the MSS, which are of the 15th and 16th cent., and the improvements, which sometimes extend to the addition of a whole clause, are numerous. At least 7 conjectures are confirmed, including 2 elaborate emendations of Spengel, the alteration of Isaas (or είδωσι) το κατηγορούμενου to τιμώσι, omitting το κατηγ., and of πως to a phrase like δεί μεθιστάναι (μεταστατέου the papyrus). Other emendations of Spengel which are established are ή ὑπ' ἀνθρωπων for ἡ ἀνθ., τούτων τὸν τράπον for τὸν τρ. τούτ., διέλθωμεν for διέλωμεν, and ο νόμος for νόμος, besides τριττώς for περιττώς (Bekker). As often, the papyrus tends to support the so-called 'deteriores' almost as much as the better codices.

A small 3rd cent fragment of a compendium of Theophrastus' Characters 25-6 (P. Oxy, 699) does not throw any light on the text of that author, beyond showing the antiquity of such compendia as that in the Codex Monnecousis.

Three of the craters are represented by papyri of their extant works. There are 4 long papyri of Isocrates, besides 12 shorter ones; the 4 being (1) a 2nd cent. Berlin papyrus of Demonicus 18-52, collated by Drerup in his recent edition; (2) a Marseilles papyrus of Nicocles 1-30 (Melanges Grana 481; 3rd or 4th cent.); (3) P. Brit Mus. 132 of the De pace (Journ. of Phil. xxx. 1; 1st cent.); (4) P. Oxy. 844 of Panegyrums 19-116 (2nd cent.). Of the rest only P. Oxy. 1095 of Demonicus 40-6 (4th cent.) and P. Oxy. 1183 of Traperitieus 44-8 (1st cent.) need concern us. The 10th century Codex Urbinas, which is held to be greatly superior to the other MSS, sometimes obtains more support than the rest, especially in the De pace, where P. Brit Mus. 132 agrees 123 times with it and 54 times with the others. But Isocratean papyri as a whole are conspicuous for their

The others are Demonics, extracts from 39, 41, 50-4. P. Barim softanal by Dreamp (2nd or 3rd i=nt.): 45, Herres serv. 007 (3rd pent.): 50-3, P. And. 25 (1st or 2nd sent.): Nicories 2-4, Method. P. Ramer iv. 136 (4th cent.): 9-41. V. Chienge Lit. 1 (3rd cent.):

^{47-51;} P. Soc. Ital. 18 (5th cent.); Pennoprione 189, and Dr. Pare 1-3, P. Oxy. 1090 (4th cent.); Philippen 114-7, Mitchell. P. Rainer II, 74 (1st or 2nd cent.); Sophia 16-8, P. Oxy. 764 (3rd cent.); Anished 83, 87, P. Oxy. 27 (1st or 2nd cent.).

coincidences with the so-called inferior MSS, especially the papyrus of the Nicooles, which agrees with them 19 times against the Urbinas and not once with the Urbinas against them, and that of the Trapezitious, which 12 times supports an 11th cent MS called A against the Urbinas and only once the Urbinas against Λ. Several of the papyri, notably those of the Demonious and Panegyrious, have a number of variations from or additions to the ordinary text, but few of these have been regarded as improvements, and the latest editor of Isocrates, Drerup, still adheres to the supposed almost complete infallibility of the Urbinas. It is, however, increasingly difficult to explain the superiority of that MS, on the hypothesis that it really gives the oldest and purest text. The other MSS, present a text for the antiquity of which there is just as much evidence, and the quotations of Isocrates in Dionysius of Halicarnassus indicate that in the 1st cent, e.c. the text was not settled. The Urbinas is more likely to owe its excellence to the editorship of some grammarian than to the sole possession of an uncorrupted tradition. The main principle on which Drerup is constructing his text seems to be

rather antiquated.

Demosthenes, as might be expected, was the most widely read in Egypt of all the prose authors. There are now 35 fragments, dating from the Ist cent. B.C. onwards, representing 14 of his speeches with the Hocolura δημηγορικά and Letters, besides 5 fragments of commentaries or lexicons; but only 8 of them are of much length. The MSS of Demosthenes are numerous, about 200 being known, and 7 or 8 of these go back to the 10th or 11th cent, the Paris codex S being pre-eminent. They are classified by Butcher into 4 main families, which are all considered to have been ultimately derived from one archetype, chiefly because the 32nd oration (Zenothemis) breaks off at the same point in all of them. The date of this supposed archetype is uncertain. Blass assigned it to the 5th or 6th cent. S and its descendant or relative L are distinguished by presenting a shorter text, and it has been maintained, especially with regard to the Third Philippic and Midius, that there were two ancient editions, one longer than the other; while even in S considerable interpolations have been suspected. Blass going much further than Butcher in his rejections. Of the De corona there are 3 important papyri, besides 7 of no special value 38 The earliest, P. Oxy. 1377 of the 1st cent B.C., contains only 27 lines from §§ 167-9, but is noticeable for exceeding S in its omissions, though these are not always justifiable, and for an agreement with Tiberius against the MSS. (rd avayxatorara; SL om. rà : aura ra aray, the rest). P. Oxy. 230 (40-7; 2nd cent.) is a longer fragment and supports S, especially in regard to its omissions though not going so far as Blass. P. Ryl. 58 (267-94; 5th cent.) is longer still, but is rather late and presents a mixed text not consistently agreeing with S or any other MS. It too is prone to omissions, but most of these can hardly

 ^{4 1,} P. Ryl. 59 (3rd cont.); 7-8, P. Oxy.
 501 (3rd cont.); 23-8, P. Oxy. 462 (3rd cont.);
 709 (2nd or 3rd cont.); 208, P. Oxy. 25 (3rd cont.);
 709 (2nd or 3rd cont.);
 7

be defended. Of the De fals, leg. there are 5 fragments. Journ Philol. rxii. 247 (\$\$ 11-32; 2nd cent.) by no means always supports S, and has several differences from all the MSS in the order of words; but apart from these new readings are scarce (13 in number), and Butcher adopts only one, тойто for тайта în § 21. P. Oxy. 1182 (53-7; 2ml cent.) also presents a mixed text; the only novelties are 2 additions of an explanatory character by a corrector, which seem to be of the same class as the supposed interpolations in the MSS outside the SL family. P. Oxy, 1094 (274-5, 279-80; 5th cent.) is again eclectic, and of inferior quality; one emendation of Dobres in 280 (the omission of sal) is confirmed, but apparently not another which had been usually accepted (if excisor for excisor). The remaining two papyri of this oration 19 are unimportant. Except the Timocrates with 3 fragments, none of the other speeches is represented by more than 2.29 The most interesting are P. Oxy. 1093 (2nd cent.), a long papyrus of Bocot, 7-23, which agrees with S not much more than with some of the other MSS and has no striking novelties, and P. Oxv. 459 (3rd cont.) of Aristocr. 110-9. which in several places has additional words, perhaps interpolations. A solitary scrap of the Third Philippio 38-40, 43 (P. Fay 8; 2ml cent.) agrees twice with S in regard to omissions the missing words (συγγνώμη τοις exceptonerors) being in one place supplied by a corrector with the addition of in rapross. The lemmata in the Berlin commentary of Didymus upon Phil. iv., De spiel, Phil. and Hepl corrafees (2nd cent.) have 9 new readings, of which one (περιεργάζεσθε for περιεργάζεσθαι) had been auticipated by Biass and two others are probably right, and 7 agreements with S. compared with 6 with the other MSS. More remarkable than these is P. Oxy. 26 (2nd cent.) of Hoseigita Sympyopied 26-9, which has a distinctly good text, introducing several improvements in 26 SeSovkenneron for ner βουλομένων, κοινών (as conjectured by Wolf) for κοινώς; in 29 ταύτο δή τούτο for τούτο δή τούτο (τούτο δή τούτο Reiske), έτι for ότιούν. But the most valuable papyrus of Demosthenes, so far as novelties are concerned, is P. Brit. Mins. 133 (1st cent. B.O.) of Third Epistle \$\$ 1-38. This has many improvements, and verifies no less than 10 conjectures: 9 ocor for το όσον, 27 τω for την, and 31 Ευθυδικον for Ευδικον or Ευδημαν (Blass); 22 άγνωσε for άγνωμοσε (Dobree). 22 άδικοίσθε for ήδικείσθε οτ άδικείσθαι.

[9] § 10. P. Grenf, H. 9 (1st or 2nd mut.); 293-3, P. Tebt. 267 (2nd cont.). (2nd cont.); Mid. 41-2, Proc. 8sc Bint.
Arch. vs. 86 (4th or 5th cont.); 151-4, P.
Grey. 1378 (3nd cont.); Pharm. 5-7, P. Grenf.
H. 10 (2nd cont.); T(moor. 55-8, P. Ory. 232
(2nd cont.); 83-5, P. Ory. 701 (2nd or 3rd cont.). 145-6, 150, P. Ory. 233 (3rd cont.).
Cf. the communitarine on Mid., Kenyen, Absorber Haberson, ed. 1. App. 1 (hat let cont.), and Ambred. Hermes Mid. 374 (lat. or 2nd cont.), and inxioons to Mid., Stad. 2nd Palercopy iv. 111 (4th or 5th cont.), and Ariston. Best 2nds. Texas 1, p. 78 (4th cont.).

^{**} Besides the 6 described there are Objeth.

1. 10, 15, Char. Rev. v. 430 (1st or Rail cent.);

Phil. 1, 20-9, P. Genrra 3 (5th cent.); R. 1, 5,

P. Amh. 24 (4th cent.); De Proc 2-9, P. Sca.

Ral. 129 (4th cent.); 21, 23, P. Oxy. 460

(2nd or 3cd cent.); Aristotz, 149-30, P. Oxy.

883 (3rd cent.); Aristotz, 149-30, P. Oxy.

882 (2nd cent.); Aristotz, 149-30, P. Oxy.

882 (2nd cent.); Lept.

Boot. 50-3, P. Oxy. 732 (2rd cent.); Lept.

78, Chaes. Quart. 1907, 263 (date.); 84-90,

Wilshup, Prifele zur 60, greech, Palacop.).

and 25 obbes for obbes ar (Sauppe); 28 b is for ob (Reisko); 30 marpious for marpology (Wolf); yeverthat for yeverhosathat (Fuhr); 38 an insertion of the (Bekker). The text of the Epistles has evidently suffered much more in transmission than that of the speeches. With regard to the latter paper, while confirming on the whole the superiority of S, indicate that the other MSS, especially F (the Marcianus; 10th cent.), cannot safely be neglected; and that whereas the shorter readings tend to receive more support from paper; than the longer, Blass went too far in rejecting supposed interpolations, as he certainly applied too rigidly the rules of euphony to Demosthenes and other orators.

The text of Aeschines is in a bad condition, all three families of MSS. being of poor quality. Only one MS, is earlier than the 13th cent, and that by a curious phenomenou belongs to apparently the worst family of the three. Hence of the 8 fragments of Acachines from Egypt, all except two ?? are decidedly valuable. The longest is P. Oxy, 1625 (2nd cont.) of In-Clesiphontem 14-27, which presents a number of new and better readings. Thus in § 20, where two of the three families have an omission and the third is corrupt, having και των έκει σκυθρωπών και τών μεγίστων κύριον άγειν. it verifies Lambinus' emendation του έκει σκυθρωπου and Wolf's άγει, but not the more elaborate changes proposed by later editors. A gloss which had found its way into the MSS in § 15 can now be detected, and another which is found in two of the three families is absent from the papyrus Hamaker's conjecture expa for year in § 17 is confirmed, and Cobet's objection to the repetition λέγει φησί in § 21 is justified, though by the omission of dyol, and higher as he proposed. A passage in § 19, in which variations between present and past participles had caused a difficulty, is set right, and there are several alterations in the order of words. P. Oxy. 703, a small 3rd cent, fragment of \$\$ 94 and 96 of the same speech, has 3 new readings, which are all probably right one of them confirming a conjecture of Kaibel. ζώντων for ορώντων in § 94; while in § 167 P. Oxy, 457 (2nd cent.) similarly has several improvements (συστήσασθαι for συστήσαι; προσκαθ[ιζ]ήσ[ει, which Lobeck and others had proposed, in place of the corrupt wpocaufiless. προσκαθεστήση, etc., of the MSS.; and άγαν προσποιήσει for προσποίηση). The longer but much later vellum fragments of \$\$ 178-36 (Hartel, Vortrag uber die Griech Pap Kez Rain. 45 squ., 5th cent.) also provide some minor improvements. In this speech the tendency of papyri is to support the group of MSS, called by Blass A more than B and C, which had been generally consulered interior to A. In the Contra Timarchum, where A is wanting a 2nd cent Geneva papyrus of \$\$ 171-81 (Nicola, Textes grees ined. 1) and P. Halle 6 (2nd cent.) of 177-8, 191-2, 194-5 agree with B eather aftener than with C, but on the whole, like the other papyri of Austhines, present a mixed text, ignoring the lines of subdivision in the MSS. Both are remarkable for their numerous divergences from the ordinary text. In the Geneva fragment the principal improvements are

^{*} Du faios leg. \$221-30; P. Oxy; 658 (3rd cent.); 74-5, P. Oxy, 440 (3rd cent.).

lσχυρίζεσθαι (with Wolf) for διισχυρίζεσθαι, έξαιρήσεται (with Blass) for εξαιτήσεται, the insertion of αὐτὸν between ὑπολάβετε and ὁρᾶν, έχετε for εξετε, τῶν ἀδικημάτων ὁργίζεσθαι for γίγνευθαι τῶν ἀδικ. προαισθύνεσθαι καὶ ὀργίζεσθαι, τοὺς μεν νόμωνς (with Cohet) for τοὺς νόμωνς μεν. Βοτh papyri have τὸ αἴτιον for τὰς τούτων αἰτίκς, τοὺς μέν νόμωνς (again with Cohet) for τοὺς νόμωνς μεν, ἐπὶ πᾶσι δικαίοις (with Hillebrand) for ἐπὶ πᾶσι τοῦς δ., οῦτε κέρδωνς ἀδίκου ἔνεκα for κέρδωνς ἕνεκα ἀδίκου (or άδικοι) and P. Halle ὁ also has probably κατηγόμων, as conjectured by Blass, for κατηγορώντων, and ὁ γὰρ νόμος οὐ for οἰδὸ γαρ ὁ νόμον, which is inferior. The text of Λεεκδίκος has evidently undergone considerable deterioration in the process of transmission since the 3rd cent.

Of the press writers of the Alexandrian age, Polyburs is represented by late 2nd cent, fragments of xi, 13, 8-16, 7 (Arch. f. Papyrus f. i, 388 + P. Ryl. 60). This papyrus is notably superior to the MSS, and confirms as many as 13 emendations: 4 by Cassimbon (15, 7 βlpos, for τέλος, 16, 3 insertion of γάρ, 16, 5-6 insertion of τό before προειρημένων and τό δύσχοησται for την δυσχ.), 2 by Scaliger (14, 2 προσθείναι for προθείναι, and 16, 6 διαβαλέι for διαβάλλει), 2 by Schweighauser (16, 2 om, τοὺς before ὑπερδεξίους, 16, 0 and 7 ἐν πορεία for ἐμπορεία). 1 by Ursinns (15, 5 θωρακίτας for

ώρακίτας), 1 by Arcesius (16, 1 έπαγειν for ὑπάγειν), 1 by Gronovius (14, 2

the insertion of παρά την τών ήγουμένων before έμπειρίαν), and I by Reiske [καταβάσει for καταβαίνοντες : the papyrus adds προσβαίνοντες].

The prose-writers of the Roman age are represented in papyri chiefly by the writers of Romances. There are two papers of Chariton's Chaerens and Callighos (ii, 3-4 in P. Oxy, 1019, and iv, 2-3 in P. Fay, 1; both late 2nd cent), and a vellum palimpsest (viii. 5-7. Archiv. f. Papyrus), 1 227 7th cent. 7). The received text depends upon a single 13th cent. Florentine MS, and both papyri are on the whole very close to it, though providing a number of variants which are generally superior. Thus in it is 4 doctor of ποθεν alσθομένη D'Orville's conjecture ποδών for ποθεν is confirmed. The palimpsest varies more extensively than the papyri from the Florentinus. and seems to represent a different recension, which is sometimes longer, sometimes shorter. Wilcken, editing it before the publication of the papyri, regarded both is and the MS as shortened reconsions of the original Chariton; but the papyri, which are much closer to the author's lifetime, eather support the view that the Florentinus though faulty, has not undergone much editing. That the recension found in the palimpsest is as old as the other is not proved.

Of Achilles Taties Clitophon and Leucippe 2-9 there is an early
4th cent papyrus P Oxy. 1250, which resembles the Chariton papyru in its
characteristics exhibiting many small discrepancies with the mediaeval MSS,
and in most cases being manifestly superior. Two conjectures, Jacobs's
roze τον γάρ Διόπισον for τότε γάο τον Δ and Boden's προσέθηκεν for
προσέθηκεν, are confirmed, and three unsolved difficulties are set straight by
the readings εκλευκον for εκ Λακαίνης, μαζεί for δμαζα, and the insertion of
πλησίον after τόν βοτρώων, but the drastic methods of Hercher in dealing

with the text meet with no support. A novel order of the chapters is striking, cha 2 and 3 1-2 being inserted between cha 8 and 9, while, since the rest of ch. 3 would not fit the end of ch. 1, there must have been some modification at that point also. This divergence in regard to order is to be explained by supposing either that there were two redactions of this romance, or that a leaf of the archetype of the MSS, was displaced and the dislocation concealed by subsequent patching. Incidentally the paper of Chariton and Achilles Tatius have revolutionised current views about the date of the composition of Romances. Formerly the writers of these were assigned to the 5th or 6th cent; but the evidence from the date of the actual paper proves that Chariton wrote before a.D. 150 and Achilles Tatius before about 300.

I pass briefly ever the writers on mathematics and medicine. Of the two short papyri of Euclid, P. Fay. 9 (2nd cent.) is remarkable for its variations from the ordinary text of i. 39 and 41, and P. Oxy. 29 (about A.D. 300) also has some peculiarities of arrangement in ii. 5. P. Oxy. 1184 (early 1st cent.). and to a less extent two 2nd or 3rd cent. Berlin papyri (Berl. klass. Texte. iii.) illustrate the instability of tradition concerning the pseudo-Hippocratean Letters, which appear in a longer or shorter form and in varying order. A small 2nd cent papyrus of the pseudo-Hippocratean treatise Hepl Stairns offews, P. Ryl. 56, supports none of the three chief MSS at all consistently, and occasionally differs from them all. Small 2nd or 3rd cent. pieces of Hippocrates' Aphorisms i. 1 (Studi d. scuola pap. di Milano t. 3) and Epidem. iii. 1 (P. Soc. Ital. 116) are unimportant; but a 4th cent. fragment of Soramus' Gynaevia ii 2-3 (P. Soc. Ital. 117) has some notable variants from the unique 15th cent. Paris MS, besides supplying part of one of the two lacunae in ch. 3. Wellmann's conjecture 'Affinian for Affinalan, Rose's insertion of των περί between έν τῷ a καί γ and τῆς αἰρέσεως, and Ermerins's correction και Αρισποτέλην και Ζήνωνα τον Επικούριον for και Ζήγωνα και 'Αριστοτέλην τον 'Ε. are confirmed. A small fragment of Diosecrides, Hept Days larp, in. 136-7 (Class. Quart. 1907, 263; date t) presents a recension which differs widely from the MSS.

The main general conclusions of this survey may be stated as follows. Firstly, on a broad view the result is to some extent reassuring, though less so than it was in 1904, when Sir F. G. Kenyon wrote. The text of the chief prose authors can now be traced back to the 1st or 2nd cent, a few (Plato, and to a slight extent Demosthenes) even beyond, and it is clear that after a.B. I they were substantially the same as the text of the mediacval MSS. Even where the latter are or seem to be wrong, the errors are often shown by papyri to be of long standing, due to quite early corruptions. That papyri written within a century of the date of composition of the work in question were anything but faultless is shown, e.g., by a fragment of Julius Africanus (P. Oxy. 412), which, though less than fifty years later than the composition of the Kestof, is already rather corrupt. But theories of extensive corruptions due to mediacval scribes, such as Rutherford's hypothesis of adscripts in Thucydides and Blass's strict application of the rules

of cuphony to the orators are either put out of court altogether or rendered very improbable. With regard to the poets the evidence is generally slighter, and except in the cases of Homer, Euripides, and Apollonius Rhodius, hardly extends further back than the 4th cent. With respect to Pindar, Sophoeles, Aristophanes, and Theorritus the conclusion to be drawn from papyri is not that the existing texts of these authors are sound, but that until Ptolemaic or at any rate Roman papyri of them are forthcoming not much is to be expected in the way of improvements.

Secondly, when evidence of 3rd cent. a.c. papyri is available, as it is only in the case of Homer, Plate, the 'Pητορική προς 'Αλέξανδρον, and to a less extent Euripides, a condition of texts is revealed which is widely different from that which prevailed after about a.c. 150. The early Homeric and Platonic papyri vary extensively from the mediaeval MSS; the papyri of the other two authors less so. The longer text represented by the early Homeric papyri is from the point of view of literary excellence considered to be inferior to the vulgate, and the early Platonic papyri have been similarly vilipended, but with less justification in view of (1) the subsequent discovery. of 2nd cent. Platome papyri also contaming many new variants, some of which are superior to the received text; (2) the distinct superiority of the sarly Euripidean and Pyropis ή τρος Αλέξαι δρου μαργεί to the mediaeval MSS. It is in any case clear that the text of Homer and Plato was before about B.C. 150 in a very unstable condition, and Alexandrian scholarship was in some way responsible for fixing it in the form in which it is found in later MSS. The text of several other authors may well have passed through a similar kind of crucible. The outstanding excellence of particular MSS. such as the Clarkeanus of Plato, the Parisinus of Demosthenes, and the Urbinas of Isocrates, is rather to be explained as the result of an edition than as the consequence of a specially faithful reproduction of the earliest text.

Thirdly except in the case of Homer, papyri still cover only a very small part of the whole text of the chief extant authors, and within this limited area they often especially in the 4th-7th cent., present a text which is no better or even worse than that of the vollum MSS, in spite of the difference of age. But there are by this time many papyri which are decidedly superior to the MSS. The authors most affected by their new readings are Plato. Thucydides, Aeschines, and in general writers outside the first rank. Conjectural emendations, especially those involving much change, rarely obtain confirmation; but, though the percentage of guesses proved to be correct is small scholars can claim the verification of many conjectures in the emendation of some authors, particularly Thucydides, Aeschines, the Epistles of Demosthenes, the 'Pητορισή' πρός 'Αλέξανδρον, Apollonius Rhodius, Babrius, Nonnus, and the writers of Romannes.

Hardly less important for textual criticism than the new information which is provided by papyri of extant classical authors is the light which they throw on the right method to be amployed in dealing with the old material. There are two ways of procedure. One is to follow in the main the authority of that MS, or group of MSS, which seems to represent the best tradition; the other is to steer a middle course between opposing groups and not to take any one of them at all consistently as a guide. The second method throws greater responsibility upon the textual critic by giving him more scope for including individual fancies, and an eelectic text is liable to be arbitrary, especially when the age of MSS, and their relationship to each other are imperfectly realised, as happens in most of the older editions of the Hence modern scholarship has largely tended in the direction of the first method, that of taking one MS, or group as a guide. Of course this method is much more applicable to some authors than to others; in the case of e.g., Euripides Theocritus, and Assahines authors of whom the MSS. are late and poor, any reasonable text is bound to be of the nature of a compromise between various families. But with Aesohylus, Sophoeles, Plato, Isocrates, and Demosthenes in partientar, and to a great extent with Herodotas, Thucydides, and Xenophon, the tendency has been to rely almost exclusively on a single line of tradition, though there are some notable exceptions, e.g., Hude's Herodatus and Marchant's Xenophon. On the merits of these two methods the papyri (inconveniently, no doubt, from the point of view of these who would like to see the text of the Greek classies finally settled) speak from the oldest to the youngest with no uncertain voice. They show clearly that the eclectic method is right family divisions in the vellum MSS, which editors with natural ardoar have often identified with known or hypothetical ancient editions, are really of comparatively late origin, and do not reach back to the papyrus period, which ends in the 7th century. In practically all authors the papyri are found to be in frequent agreement with the so-called inferior MSS, and the better have no kind of monopoly of ancient and correct readings. Future editors of authors such as Sophocies, Thucydides, Plato, Isocrates, and Demosthenes will have, as was already pointed out by Sir Frederic Kenyon, to be prepared to find the truth in witnesses which usually are inferior, and to follow the example set by Mr. Marchant in his Xenophon of exercising a comparatively free judgment in deciding between conflicting MSS in place of a strong bins towards a particular group.

Papyrology has hardly been in existence for more than 30 years, but its results in the domain of textual criticism are of considerable importance, though they are apt to be obscured partly by the more brilliant light shed by the recovery of many lost classical texts, partly by a natural prejudice against rather disconcerting novelties in a well-ploughed field. Egypt, as far as promising sites for the discovery of literary papyri are concerned, shows signs of exhaustion; but when the rest of the Oxyrhynchus collection and all the unopened Ptolemaic papyrus-cartonnage at Oxford and various museums on the Continent come to be published, the value of the contribution of papyri to the textual criticism of the Greek classics, which has greatly increased in the last 14 years, is likely to go much higher yet.

ADMETUS, VERRALL, AND PROFESSOR MYRES.

You loss your temper with Admetus because he doesn't want to die. Have you Adamin. ever died yourself?

None but cowards are alraid of death. Widdener.

Admits. The bere's death, true. But death in om's hed? Everybody is afraid of it, including the lare. It's nature. Do you suppose I would have fussed about my life if it had been a question of eaving my wife from the enemy or defending my property ! Still, for all that

Widaid. You are like people from another world, talking a language whose words I under-

stand, but can't make out the sense

We are talking Greek . . . Actions here.

Enripoles. Wieland belongs to a sect wmon tells tortured men that they will live a fuller.

happior, stronger life after they are dead.

Admittee. He is behaving as if he did. But no, he is human stonigh to not like me, if he were in my shoom

Aforeis the Wishmal). You just ask your wife about that.

Courses, Goller, Holden, and Wiebrad, 1774, rol. xxxvire in the Woman edition.

MANY people have failed to understand the Alcestis, and for the reasons Goethe suggests. Romanticists are grieved because Admetus. Pheres, and Heraeles are human beings. As M. Masqueray observes, Notre hypocrisie s'accommode mal d'une telle franchise. Verrall is delighted that the characters should be human beings, but refuses to permit them to 'talk Greek His rational theory that the object of Euripides was to expose the mirrorious legend, by suggesting that Alcestis never died at all, rests on an assumption that, to an Athenian, the resurrection of the beroine, 'as a piece of history, asserted or denied, was a matter of religious moment. But, for a Greek, the truth of the alleged resurrection involved no vital issues. The first lesson of religion was not Believe that Apollo, through Heracles, could ruse Alcestis from the dead, and, believing, have faith and hope, but something very different; 'Know that then art mertal, and, being mortal, practise moderation.' It was the unorthodox, the 'progressive' who, in ancient Athens, ventured to believe that mortal men should practise immortality. Euripides contributed to new ideas by criticising the old. But his task was as far removed from that of Verrall's 'Professor T. H as was the mind of Nikias from that of Mr. Gladstone. For an ordinary Atheman the point was not that Alcestis rose from the dead, but that she died to save her husband's life. To argue the possibility or impossibility of her resurrection would, I submit, have appeared to the Athenian as trivial as it is depressing. If we want to understand Greek plays, we must remember that they were written by Athenians for an audience which was pagan, not Christian, Greek, not English. The characters talk Greek. It is our business,

before we begin to criticise, to ascertain exactly what they say,

What for instance, are we to think of Admetus hospitality to Heracles! Verrall regarded it as a proof of callousness, and discovered unanimity of condemnation among the deamatis personae. But how did he arrive at that discovery! By ignoring the natural meaning of Greek words, the natural significance of perfectly familiar proverbs. He had every right to point out that the first justimet of the chorus, when they hear Admetus inviting Heracles to enter his house, is one of horrified amazement. But he is driven to strange shifts when the hero's explanation swiftly, and to a Greek quite naturally, converts the chorus. In an ode, whose beauty he admits, they recall the hospitality of Admetus to Apollo and the blessing that followed. They compare that famous example of piety with their master's present sensitiveness to the claim of friendship, and express a certain hope that piety will again have its reward (600 ff.)—

το γάρ εθγενές ἐκφέρεται προς αίδω. ἐν τοῖς ἀγαθοῖσι δὲ πάντ' ἔνεστιν σοφίας. ἄγαμαι, πρὸς δ' ἐμὰ ψυχὰ θάρσος ἥσται θεσσεβῆ φῶτα κεδνὰ πράξειν.

For Verrall, this becomes: It is a part of good breeding to tend exceedingly to the point of honour. Upon the noble all virtues rest. It is amazing; but we have a settled conviction that the god-worshipping man will fare well and do well. By a series of slight inaccuracies or ambiguities, he has contrived to make the chorus appear pezzled, instead of impressed. 'They are making the best,' he says, 'of whatever Admetus chooses to do.' And 'at this point, sentence upon Admetus' conduct remains in suspense.'

To an Athenian such an interpretation would have seemed preposterous. Aiδώς, for a Greek, is the sum of orthodox virtues, and it is identical with that "wisdom" which brings true prosperity.\(^1\) It has a perfectly definite content. 'It is from health of mind,' the Eumenides tell us, when they are laying down the fundamental precepts of Greek morality, that the prosperity, which all men love and all men pray for, comes.' And they define true wisdom thus: 'Therefore let a man be modest-minded (aiδόμενος), observing well the reverence that is due to parents and entertaining guests with honour in their houses.' And again, when they talk of sinners, they are not vague in their catalogue, but specify as typical criminals 'all who have sinned against a god, a stranger-guest, or their parents.' When you invoke blessing on a Greek city, you pray that it may 'deal justly with stranger-guests, honour the gods, and reverence parents; for that is the third of the prescripts of justice.' Sometimes, it is true, the proverb is slightly varied, and you are told that the three essential virtues are 'to honour the gods, and

^{*} Acesh. Econ. 538, 548, 260: Sup. 700; Eur. Hernel. Fr. (N. 853). The equation all-limbo copie, Eur. I.A. 553, has dramatic

importance of copic here, see Alr. 303, 327, 552, 565, 728, 770, 1093.

the parents that got you, and the common laws and customs of Hellas. That form of the ideal is worth remembering at Alcestis, line 684.

As for ayanas, which Verrall contrives to turn into a protest, it is really an expression of the deepest respect and admiration. It is the word with which the counting Odysseus flattered Nansicaa when he assured her that the sight of her filled him with awe. It is the right word for the expression of admiration for a soldier, who braves death for his country's sake. And it is the word that Plato uses when he wants to describe the wonder of the gods at the heroism of Alcestis herself—a wonder which made them do for her 'what they have done for very few mortals—send back her soul from death.' And, finally, the settled conviction that a good man will prosper is so commonplace a proverb that we need not embark on controversy whether

a Greek could have interpreted κεδιά πράξειν in a Verrallian sense.

Noblesse oblige. It is the virtuous who are possessed of wisdom. I am full of wonder and respect, and am persuaded that so god-fearing a man will meet his reward.' It is the chorus, not Euripides, that speaks. But it is important accurately to determine what is said. It is important for this reason. In drawing the character of Admetus, Euripides has given him, in complete harmony with the legendary tradition, the typical virtues of the old Greek aristocratic ideal. He is proud of his birth and sensible of its obligations. He is pre-eminent for Aidos. That is, he is a man who honours the gods, for which he has his reward, a man who has honoured his parents, as he himself remarks, but has not received from them the somewhat extravagant return which he, and the tradition, expected; and finally a man who is noted for punctilious observance of all the claims of friendship. He is a typical good man; but, in spite of all, being, like ourselves a human being, he has much to learn. The central interest of the play is not a problem about resurrection and minutes, but the education of Admetus to a new and better view of life.

I say, advisedly, a better view of life; not simply a new view of matrimony, though Professor Myres is justified in laying great stress on that aspect of the play.

2 Oct. vi. 161-168; Eur. Phoen. 1642, Rhev.

949 : Plato, Symp. 170v.

have obtained a copy of Enripsiss. Alcenting anys: "A heartest ... | heart so yes status of heartest ... | heartest so yes status of heartest so yes services and status | designest so & hand the year services as Myres paraghress. For her married life she has no hard thought. Tragic as it has been for her, it has at tesat brought diseaster to no one test herself; and it has only brought it to her because, for her, remarriage would have been intolerable between the her troth to Admetus. But why not paraphrase thus: "... it has only brought it to her, because, for her, a refusal to dist for her husband, when one of the other had to dis, would have been intolerable betrayal of her truth." Afterpos systemes suggests adult

See Myres in J.H.S. 1917, pp. 196 ff.
Though I agree with much that Myres says,
I do not think the motive of Alestis is to
avoid renarriage. Alcours does in order
that Admetrs may live; and that makes all
the difference, whom the rasks him not to
marry again. The request is almormal, but
Myres does not explain Hips 858-862, where
Theseus expects just the same request from
his dead wife. Perhaps be would say that
Theseus was old and Admetes young. But
the real test of his argument is in lines 179181, where Myres paraphysics, but does not
quote. For the sake of greater accuracy I

The legend said that Alcestis nobly volunteered to die for Admetus, and orthodox sentiment paid her the tribute of an easy admiration. 'A model, wife, indeed. Euripides, by bringing the story down to earth, by making the characters human beings with motives, prejudices and passions like those of his contemporaries, forces his audience to face the implications of the phrase. If women can be like that, if a wife can die for her hasband, will not the man whose life she has purchased with her own, find all his notions, all his feelings about marriage and about women, revolutionised. It is through the devotion of Alcestis and his gradual realisation that she means more to him than all external moralities, more than his prosperity, more even than life itself, that Admetus becomes human. Yet the play is more than a tract for husbands, more even than a plea for a better understanding and a more worthy relation between men and women. It touches something universal which can still appeal to us who think at any rate, that we have, as a society, absorbed the lessons about marriage and about women which were revolutionary novelties to Athens. The legend held that Admetus was peculiarly virtuous, and was rewarded by the gift of an extra span of life. I think Enripides suggests that the morality which calls Admetus 'happy' because his life is prolonged at the cost of another person's sacrifice, is superficial. He suggests that the person who sacrifices may be more fortunate than the beneficiary. Life, as Alcestis says is esteemed more precious than anything else. But, before the play is done, Admetus knows that there is something more precious than life, and that that something is indeed what alone makes life worth having.

This reading of the play enables us to see the relevance of the scenes which puzzle both comanticists and rationalists. The prologue, the choral odes, the scenes with Heracles and Pheres, fall into their proper place, as part of a concerted whole. But always we must remember that Euripides is working with old mythology and old proverbial morality as his material.

The prologue begins, as we should expect, with a hint of the fundamental problem. The foundation of Greek religion, as we have said, is the doctrine

tery ; but that does not imply what Myres. wants. She does (to put the phrase at its highest became she returns to the something which for her would amount to as great a betrayal or ecollery. What? An Atherian andience would naturally suppose size treant 'refaining to die for him,' not 'marrying again.' Myres treats 157 as an indication that Alerstis must have expressed 'a point of ciew . . new, surprising quite incompreexcuders so Verrall trented Syann: And thes. Boars suggest the expression of a point of view, etc. 2 I solomit that line 15; refers to the whole of Alestic behaviour, as marrated. It seems to me sufficiently sublime. Finally, in his anxiety to make Alcestin' request as

of mortality, not immortality. Men are mortal, and therefore should be moderate in expectation, in desire, in conduct. They are fortunate if they live their normal span without calamity. And yet men hanker after the impossible—τὰμήχανα ζηταῦντες. It is to remind us of all this that Apollo tells us, at the outset, how he first came to the house of Adinotus as a punishment for rebellion against what seemed the arbitrary cruelty of Zeus Zeus killed Asclepius because he raised men from the dead; Apollo killed the Cyclopes, who had fashioned the thunderbolt for Zeus. And so Apollo was condemned to serve a term of ordinary human life. Euripides knew what he was about when he began his play with this reminder of an earlier rebellion against destiny. The ways of Death are hateful to gods and men. But Death's defence of himself states a fact whose realisation is, for a Greek, the beginning of wisdom (63):

ούκ Δε δύναιο πάντ' έχειν δι μή σε δεί.

Again and again Death insists on Justice. Apollo prophesies that Heracles will rob Death of his prey, but not before Death's arguments have reinforced in our minds the mention of Asclepius. Men cannot expect the decrees of fate to be altered in their favour without compensations. There is really

something in Death's point of view.

But the chorus, like most of us, hanker after the impossible. They know the terms of Apollo's bargain, yet they hope against hope that semething may intervens. They cry to Pacan (92). They know that all the gods have been approached in vain (120, 132). There is no help to be had from the oracles of Lycin and Egypt (112). And yet, they cannot help recalling, Asclepius raised num from the dead—until the thunderbolt of Zens put a stop to it (127). Again and again, throughout the play, these ideas are repeated in various forms, with various modifications. They are part of the lyrical machinery by which the requisite atmosphere is created for the human drama.

When we are introduced to Admetus we shall find that he, too, is asking for the impossible. His first words voice the protest against mortal destiny which Apollo championed when he killed the Cyclopes. What have the gods against us, he complains, that Alcestis should die? The appeal to justice is characteristic of the man. But he forgets. The gods have given him not less, but more, than they give to most men. He is to live beyond his time if Alcestis dies. He begs Alcestis to besench the gods for pity (251), and in the same breath, inconsistently, he begs her to 'rouse berself' and live. At that point he is not asking her to revoke her decision and let him die. He does something like it at line 275, but even then the terms of his appeal are neither happy nor convincing:

σοῦ γὰρ φθιμένης οὐκέτ ἄν είην.

Though the scene has folklore elements serious. There are many runiquesmons of (Lawson, Modern Greek Folklore, p. 115), it is Enm. 931 ft.

No doubt, says destiny. But where will you be if she lives? He has not clearly faced the situation. His distress is genuine enough. But, as the Maidservant has told us, 'he does not know, until he shall have suffered.' He simply 'begs her not to betray him' (precisely what she is dying to

avoid, 180) - τάμηγανα ζητών.

This does not imply that he is particularly selfish, certainly not that he is contemptible. Simply, he is conventional and unimaginative. When Alcestis makes her great request, that, for the sake of the children and for her honour, he should not marry again, she puts it on grounds which she knows, will appeal to him. What she asks is less than what she gives, but just—as you yourself will say. She knows how Admetus regulates his life by the great rules. It is the way of a good man. His assent is eager, not reluctant. Then he begins to reflect. He proves to himself how small the sacrifice will be. His protestations are extravagant, but not insincere. They show that still he does not understand. So Alcestis ignores everything except the promise not to marry again. She dies, and her last word to him is $\chi ai\rho e$. I wish you joy. It is the little boy, not Admetus, who breaks out into lamentation. Anyone who has witnessed the Bradfield performance knows the value of that fact.

So Alcestis is dead, and we embark on the sequel which has seemed to so many interpreters unworthy of the prelude. 'Time will assuage; the dead is nothing,' Alcestis has told him (381). Will that prove true! 5

After the silence, the chorns offer customary consolation, an orthodox admonition to patience. 'You needs must bear your troubles. You are not the first. You must recognise that death is the debt which all of us must pay.' True, but on this occasion the ancient consolation sounds imadequate. On this occasion someone else has paid. But Admetus will behave as a good man should. He acknowledges mortality. He is prepared. He has suffered in anticipation. And having giving instructions for the public

mourning, he goes off to make his preparations for the burial.

When he comes back he finds Heraeles at his door. What is he to do! Shall he drive his friend away because of his private grief! Intolerable to a man whose life is devoted to Aidec. But if Heraeles is to be entertained, he must not be told the truth. In virtue is wisdom; and, calculating numaginatively as is his wont. Admetus can persuade us that to turn his friend away would simply add an evil to the present sorrow. And that is forbidden by Aidec. Yet I think we are intended to feel that there is something too mechanical about his virtue. The first instinct of the chorus is right. If his heart spoke, and not his virtueus bead. Admetus would tell his friend about the trouble. But he does not tell him, and so he has to talk in riddles. What has not been observed is that the ambiguities reveal, in spite of that virtuous head, a heart that is beginning to break. When he says, of his wife,

έστιν τε κούκετ έστιν άλγύνει δ' έμέ,

See 1085-6

HP. godene padales . . .
'Ad . . . el godene el narelmelo.

is he not realising that the dead are not always dead! Is there no bitter discovery behind the sophistry of τέθνηχ' ὁ μέλλων! And when Heraeles insists on the plain man's distinction between 'is' and 'is not' the answer seems to me to be more than an evasion:

σύ τήδε κρίνεις, Ήρακλείς, κέινη δ' έγιο.

Alcestis is still with him, working on him. But the suggestion that Heracles will go to some other house rouses him like a blow. His melancholy falls away. An actor should deliver line 539 with violence. After that τεθνάσι, for the present, οι θανόντες. But we have already seen that Admetus has a heart.

He has, but his self-complacence remains. For himself, as for the chorus, he is still the model of Helleme virtue. It is at this point that the chorus celebrates his noble birth, his rightmindedness, his possession of the wisdom that is virtue, his piety, which will surely bring him good. Both Admetus and the andience need a shock before their eyes are opened. And a shock they are to have from Pheres.

One part of Aloss, and an important part, is the honour due to parents. But the parents of Admetus have betrayed him. They ought to have died for him. Alcestis herself could not understand their selfishness. With characteristic generosity she said, some god has brought it about that things should be as they are '(297). Her thought was more generous and more profound than Admetus could understand. He could see nothing but the betrayal. All he could answer was that he would hate his parents, as a proof of loyalty to her. As if she wanted that 'He had not heard, and would not have understood, her language when she said 'My marriage bed... I bear you no ill-will, for you have brought disaster to no one else but me '(179).

Admetus thinks it monstrous that these old people, having had their fill of happiness, should cling to life. Though the poet has, in my opinion, left ambiguous the precise degree of responsibility, or lack of responsibility, of Admetus for his wife's sacrifice, he has left no doubt about the parents, Admetus canvassed them, expected them to volunteer. That is in accordance with the normal view of the Greek tradition. The originality of the Pheres scene consists not in the indictment of Pheres, but in his presentation as a real person, with something to say, something which is disquieting to all of us, who assume that we are so much his superiors. Euripides makes us feel his reality, and his kinship with Admetus, and ourselves. When we condemn Pheres, are we so sure that we should act differently in his place? And Admetus by condemning him, implies that he is prepared not only to

commented to the for her limited, organ acres acres to an engage, one design recovers the period of the following acres to also and deducts power transferences.

^{*} The normal tirred view is expressed in the drinking song which, Enutation tells in (B ii 711), used to be song at Athens: "Abactor Adver & "rater ander, role synthesis place, rise become 8" arriver, years 571 Section only gipt: Plato, Symposium (1798) Alocatia

accept, but to demand as a right, a sacrifice which no man has a right to ask from another. Pheres is base to refuse. We may dismiss, if we will, his accusation that Admetus is a murderer. It is, on any interpretation, a calumny. But, for all that, he lays bare the soul of Admetus. At heart Admetus, the aiboios, is avaions. He prides himself on instice. Well, he claimed his parents' lives, in order that he might himself escape payment of the debt that all men owe (contrast 682 with 419, 782). Pheres intends to behave with what he considers decency. The pious platitudes with which he offers consolation recall, point by point, the sympathetic admonitions of the chorus. From the chorus Admetus could accept them without perception of their irony; but from Phores, these same proper sentiments are intolerable. No wonder Admetus launches on his indictment. He harps on justice, alous, evyenera. As against Pheres it is a good enough case. It is true enough, if death comes near, nobody wants to die. Does Admetus? Did not Alcestie | The roply of Pheres is not only a brilliant exposition of his own egoism, but also a revelation of Admetus to the audience. It stings, precisely because of the hard core of truth beneath the matice. And in the long run it helps to break Admetus' heart. For the present his reaction is one of righteens indignation. He renounces his parents, in language of characteristic pedantry (737, of 425 ff). Pheres deserves it, but the man of Alber is committing the last implety. His righteons indignation will pass. On the road towards Larissa, at the tomb, and on the way back, he will have to face himself. He will have to come to terms with the problem set by Pheres:

ή δ' ούε άναιδής τηνδ' έφηθρες άφρονα.

Every point in Pheres' rhesis touches on the traditional excellence of Admetus. Is the appeal to justice! Does Admetus plead that he has always done his duty by his parents? It is not Greek, it is not among the rules, that a father owes his son his life.

Admetus teels the pride and obligation of birth. Well, this creature, who is his father, also has a sense of birth. He is no slave, and claims the treatment due to his position. When a Pheres makes this claim, we feel how little it matters: and when Admetus returns from the grave we shall find that the nobility of birth, which counted for so much to him, has dwindled into insignificance (920 ff). Do you rejoice in living, and do you think your father has no joy in it? We remember how Alcestis bade Admetus rejoice. Be silent, and reflect that, if you love your life, so all men do. When Admetus comes back from the burial, he will cry, I envy the dead: I am in love with death. Admetus cares much for his reputation.

you care to realise what good fame means in Greek, read Watter Headlan's essay (C.R. xix, 1995, p. 149) on Pimlar, New. viii. 32 ft. Greece, as he shows, impired Milton when he sang: Fame is no plant that grows on mortal sail. But lives and spreads aloft by those pure syes [And perfect witness of

² The Honeric have fought and dust for fune. Admetric great anxiety for reputation is not contemptible. Good fame is more to a Greek, and ill fame some nearly approaches guilt, then we moderns generally similariough here again, perhaps, "notre hypocrisic s'accommode mail d'aus telle franchise." It

That too he is to lose (961). It is the expical admission by Pheres of contempt for reputation (726) which moves Admetus to cry out against the shamelessness of the old. That a man has a right to one life not two, is true enough. But it is only part of the truth. Alcestis knew more. And in the sequel Admetus understands (712, 883, 900).

But the most dramatic and the most illuminating passage of the whole dialogue is Pheres' swift retort to his son's impatient cry 'Well then, I hope you may live longer than Zeus himself. 'The answer is 'You carse your parents, though they have done you no wrong!' Pheres, by all the standards

of normal Greek, is right when he calls it a curse.

Heracles is an ordinary human being, very generous, somewhat stupid, full of life. It is indeed, only his vitality that is abnormal. We must not judge him solely by the evidence of the outraged servant. He sings when he is merry, and the servant, not unnaturally, finds his singing 'a discordant howl. But that does not justify us in assuming that he is disgustingly drunk. He calls for his food with gusto, which, in the circumstances, seems to the servant outrageous. But the servant does not understand the circumstances (751, 807). When he has wine in him, he philosophises as human beings will. But he does not talk nonsense. His philosophy is vital to his character, and relevant to the main theme of the play. No man knows whether he will be alive to-morrow; every mortal owes one debt; we all shall die. Therefore, take pleasure as you find it, enjoy the gifts of Kypris, and, being mortal, fit your thoughts to your mortality. That is one inference from the fundamental fact that mortals have to die. The other he parts into practice when he goes out to fight Death. It cannot be too often repeated that Sarpedon's exhortation (IL xii, 322) represents one aspeat of the normal view, the nobler aspect, nobly stated, but still, for Greek heroic morals, normal;

κου δ', έμπης γάρ κήρες έφυστάσιν θανάτοιο μυρίαι, ας ούκ έστι φυγείν Βρατον . . , ίδμεν.

That is the view on which Herneles, sober, acts. The dialogue with the charus on his first arrival was the device by which Euripides ensured that this other aspect of Herneles should, from the outset, be before our minds Herarles is already on his way to face death or victory. He will get nothing for himself if he wins (488-491). Simply, it is his destiny to face 'children of Ares,' and his answer to destiny is that no one shall ever see the son of Almeens (the son of his mother, you notice) play the coward.

Consider what we have witnessed. We have seen Admotus, the sincere, mechanical devotes of an exemplary orthodoxy, elaborating, in quite genuine distress, the programme of a life of mourning, which he felt was only fair, as a return, for his wife's great sacrifice. The programme was grandiose,

all judging Jove. And then consider Plate, Symp. 38 c.o.: Ofer as, Ion. "Assures orig 'Adulter archaele Sr. & 'Azekén Harpinky transluttir. all simpleses afternos pengas

impressive, artificial. It would have meant a life which Heracles would have described, and rightly, as 'not a life, but a misfortune' (802). Real life burst in with the irruption of Heracles. Admetus tried to combine loyalty to his programme with punctilions observance of the claims of hospitality. But his conception of those claims, like his loyalty, was formal, decent, correct. It did not reach the heart of friendship. Yet we could see that he had a heart

There followed the scene with Pheres, with its exposure of the soul of Admetus. It was necessary that Admetus should react with violence. When he curses his father, his theory of life is crombling about him. He is himself, at that moment, convulsed by egoism. But the convulsion is a sign that the devil is about to pass out of him.

After such a scene, it is not simply 'comic relief' that we need. It is a touch of simple humanity. That is what Heracles brings. The blundering generosity of Heracles softens and heals, for we, too, if we have imagination, have been painfully revealed to ourselves.

Meanwhile Admetus has been burying his wife. Heracles has not merely comforted us, but has prepared us to receive the hero on his return. Admetus, when he comes, is changed. He has forgotten his indignation. Notice how simply he refers to his mother (contrast 637, 865). He has learnt sympathy even for servants (see 638, 675, 771, 948). Above all, notice how he replies to the challenge of the chorus, the last and clearest statement of the old assumption about life and marriage. You have had your trouble, as all men have, but you have also had great good. You have lost your wife. But you have your life. What is there now in all this?

He answers that he counts his wife more fortunate than himself. He has learnt much, but the play is not yet over. His pride is gone. He can no longer comfort himself, and arm himself against humanity, by thoughts of his piety, his prosperity, his reputation, and the wickedness of other people (958-961. The last line is vitally connected with tine 605). He has recognised, in the spirit, not merely intellectually, his mortality. But for him and for the audience the pious moralising of the chorns, about Necessity and the proper inferences, have become inadequate. Thus far Euripides has brought as

The last stage is still to come. Heracles with his blundering human nature, unconsciously works the miracle. At line 1067 Admetus, for the first time, really breaks down. He has fallen in love, not with the strange woman whom in spite of all the codes of friendship, he cannot bear to take into his house, but with the wife of whom her physical presence reminds him. It was necessary that this should happen. He had to fall in love with Alcestis before he could receive her again and enter on 'a better life.' I will leave the reader to discover for himself the many subtle touches in this scene, which invests with fresh significance and new emotion old themes of the play.

^{*} The stages are marked by the words here anothers (940) and Apri . revenue (1070). In 1067 ft. the symptoms of his emotion are

traditional symptoms of lyrical passion, imnormalized by Sapplio.

I hope I have said enough to convince him that the parting words of Heracles are neither ironical nor inadequate. Heracles is still Heracles, no more no less. 'Go on,' he says, 'in your life of piety to friends and justice. I give you joy. And I, for my part, must shoulder my burden, and go on to my next labour.' He does not stay to hear, and he would not understand, if he heard, the final utterance of the hero.

νῦν γὰρ μεθηρμόσμεσθα Βελτίω βίον τοῦ πρόσθεν οὐ γὰρ εὐτυχῶν ἄρνήσομαι.

But, although Heracles would not understand the full meaning of these words, he would not, being a Greek, who talked Greek, have thought, with Verrall, that the last clause was a gradging admission from a man who was still an egoist.

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CORNELIUS NEPOS ON MARATHON AND PAROS.

It might seem waste of labour to examine minutely an account of the battle of Marathon and the Parian expedition so late as that contained in the brief life of Milhades ascribed to Cornelius Nepos, more especially as I must confess that the results of my enquiry are in the main negative, and that such positive conclusions as I reach have not the charm of novelty, but serve merely to strengthen theories already well known, and in England at least widely accepted. But this late epitome is almost the only consecutive narrative of these events outside the pages of Herodotus. Marathon was sung by poets, and bespattered with rhetoric by patriotic orators, but such historical accounts as there once were of the battle have perished save for the still later epitome of Trogus Pompeius made by Justin. Again there is good reason to think that Cornelius Nepos is here following the fourth-century historian Ephorus. This is manifestly the case in his account of the Parian expedition, the kernel of which is little more than a translation of the fragment of Ephorus preserved in Stephanus of Byzantium &c. Paros. That Nepos drew his story of Marathon from the same source is the general, and as I shall hope to show the right opinion though it has been demed by Dr. E. Meyer? Further, the view of the campaign and the conception of the battle to be found in Nepos have been accepted as historical by many of the highest authorities in Germany, e.g., by Des. H. Delhrück, G. Busolt, * and in the main by Dr. E. Meyer. And at last there has been an effort to deal with a difficulty treated with lordly disregard by the German writers viz. the lack of evidence to support their theories; for in a recent article Mr. Casson has tried to show that Ephorus has not only given us a more reasonable account of the battle than Herodotus, but has also preserved for us a tradition ignored by the earlier historian. If, therefore, we are to maintain the superiority of the Herodotean story with all its imperfections, and of the reconstruction of the campaign first put forward by Mr. Munro? and supported by Dr. Grandy, we must show the hollowness of the plausible but shallow theories of Ephorus.

^{&#}x27; Ephorne, fr. 107 | Maffar, F.H.G. i. 263.

^{* (7}embichte des Alterthums, iii. § 194, n. p. 332

^{*} Die Perserkriege und die Burgunderkriege, pp. 52-55; Gembinhte der Kriegskunst, F. 50-71.

[·] Orientische Genekichte, III. 581-06.

Geschichte des Atterthums, iii. §§ 192-0, pp. 326-336.

Kilo, xiv. (1014), 69-90.

[&]quot; J.H.S. xix, 185-07.

[&]quot; Great Persian War, 160-194.

First, however, I would argue (in opposition to an obiter dictum of Dr. E. Meyer) that Nepos copied Ephorus in his account of Marathon as well as in that of the Parian expedition. Dr. Meyer would seem to be biased by two pre-suppositions, neither of which is tenable. The first is his general thesis 20 that the biographers, Phitarch and Nepes, drew almost exclusively from a biographical Hellenistic tradition, while the historical compilers followed historians (e.g. Diodorus, Ephorus). This may well be true in the main of Plutarch, though he is no servile copyist and quite capable of making use of his wide historical reading as well as of culling characteristic stories from memoirs and speeches. But with regard to the earlier biographies of Nepos, these of Miltiades Aristides, Pausanias, and Themistocles, I should venture to dispute Dr Meyer's contention, which indeed he is himself constrained to modify by the admission in that Nepos in his Pausanias and in part of his Themistocles was following Thucydides. I should go further and maintain that in none of those four lives is there a fact mentioned which may not have been found in the best known historians, Herodotus, Thucydides, Ephorus, and Theopounpus. The only trace of a biographer's bias is the manifest wish of Nepos to make the best of his hero. And this may very well be his own doing, not an inheritance from a biographical tradition.

Dr. Meyer's second ground would seem to be a belief that Justin and not Nepos gives us in epitome Ephorus' account of Marathen. Now there is some reason to think that Trogus Pompeius, whom Justin epitomised, drew part of his history from Ephorus. The fact that Trogus closed his eighth book with the siege of Perinthus by Philip 13 (just where the work of Ephorus, or rather its continuation by his son Demophilus.10 ended), goes to show that Trogus was in that part of his history following Ephorus. But this is no proof that he did so for the Persian war. On the contrary, it is certain that in the period from the Persian to the end of the Peloponnesian war (480-404 a.c.), Diodorus slavishly copied Ephorus, the except in the Sicilian sections, which probably came from Timacus. Now there are no doubt striking points of resemblance in the accounts given by Diodorus and Justin of Xerxes' invision, particularly the numbers given for the Persian army,11 the description of the night attack made by Leonidas on the Persian camp 15 at Thermopylae, and the importance ascribed either to the promise of or to the actual withdrawal of the Ionians from the Persian fleet at Salamis," But if there are these likenesses there are differences no less remarkable. Justin (xix. 1, 12) distinctly denies one of the most important novelties

[.] Geschichte des Alterthuma, iii. § 194, p. 332.

[&]quot; Forschungen zur alten Geschichte, it 65 !

¹¹ Thid, il. 68.

[#] CL A. von Gutschmidt, Rleine Schriften,

is Cf. E. M. Walker, Hellenica Oxyerbyn

¹³⁴ Striking confirmation of this view is to J.H.S.—VOL. XXXIX.

be found in the new fragments of Ephorus. Ct. Grandell, Oz. Pag. Pt. siii. No. 1610, pp. 98-127.

¹⁴ Diodorns, xi. 3, 7 and 5, 2 = Justin, ii. 10, 19.

¹⁴ Rid. xl. 0 and 10 = Justin. it. 11.

[#] Font, xt. 17, 3, 4, Cf. Justin, ii. 12, 25, 96.

in Ephorus. The alliance between the Great King and Carthage, while he ascribes the aristeia for the whole war to Athens and its general Themistocles, whereas Diodorus only allows them the prize for valour in the minor engagement at Artemisium, reserving the greater glories of Salamis for the Aeginetans, and of Plataca for the Spartans and Pausanias. Nor is it fanciful in my opinion to see a return to Herodotus in Justin's emphatic reassertion of the appeal of Themistocles to the Ionians in and of the horrors of Xerxes' retreat in (passed over by Diodorus) bedizened though both these episodes are with the meretricious rhetoric of a later age. It is at least clear that Trogus did not follow Ephorus exclusively or slavishly in his account of the greater Persian war, and so the assumption that he did so in the story of Marathon remains unproved and improbable.

But if we turn to Cornelius Nepos how high is the probability that Ephorus is his original source. The succeeding chapter on Paros is as wehave seen translated from Ephorns-and there is great similarity between the two stories. In both narratives, which as given in Herodotus contain obvious gaps and defects are rendered rational or at least plausible. The religious motive, so prominent in Herodotus,21 disappears and there are substituted at Marathon as at Paros political and military reasons, which make the actions of the Athenians and of their opponents reasonable and intelligible. In this and other similar points Justin is far less plausible and therefore far less-likely to represent Ephorus. For instance while both authors insist on the eagerness of the Athenians to fight, and on the speed with which the battle followed the march to Marathon, Nepos at least makes the Persian leader Datis force on the battle in order to anticipate the adventof the Spartans, while Justin represents Miltiades as too impatient to wait for his own allies." Similarly the numbers of the Persian forces, incredible enough even in Nepos, are far more grossly exaggerated in Justin. While the former is content with a total of 200,000 foot and 10,000 horse, reduced in the actual battle to 100,000 foot and 10,000 horse, Justin talks of 600,000 Persians, and asserts that of these 200,000 perished by sword or shipwreck. Finally there is in Justin a distinct effort to retain some features of Herodotus story which have altogether disappeared in the more critical accountin Nepos. In particular I may mention the exploit of Cynegirus, spoiled though it be by tasteless thetoric in Justin.24 and the famous charge of the Athenians, who are said to have traversed the mile between the two armies ante inclum sagittarum."

But enough of Justin: I pass to a detailed examination of the principal

Ephorus, fr. 111, np. Smol. Pind. Pyth., 140; Müller, F. H. G. 1, 284. Cf. Disclorus,

Juntiu, ri. 14, 10, 11, as agrumt Diodorus, ri. 13, 2 : 27, 2 ; 33, 1.

Ibid. ii. 12, 1-7 = Hdt viii. 10, 1, 22.
 Ibid. ii. 13, 8-42 = Hdt. viii. 115-20.

³¹ Cf. for Pares vi. 134, and for Maruthon

the visions of Philippides, vi. 105, and of Epixelan, vii. 112.

Nep. Mill. 5, 1 and 4, as against Justin, m. 0, 9-44.

²⁵ Ibid. 4, 1 and 3, 4, as against Justin, ii. 9, 9 and 20.

²³ Justin, ii. 9, 16-19 — Hdt. vi. 114.

[⇒] Bod ii 9, 11. Cl. Hdi. vi. 112.

elements in Cornelius Nepos. Before attempting to weigh their worth it may be well to give a brief summary of them [cf. Macan, Herodotus IV-VI. ii. 206).

(I) The force sent by Darius was 500 ships, 200,000 foot and 10,000

horse under Datis and Artaphernes [Mill. 4, 1].

(2) The cases belli alleged was the help given by Athens to the Iomans in the capture of Sardis.

(3) The royal prosfects touched at Eubona, quickly reduced Eretria, and

sent its inhabitants as captives to the king (Mill, 4, 2).

(4) From Eubsea the Persians crossed to Marathon, a plain ten miles from Athens.

(5) The Athenians sought help from Sparta only and sent Phidippus, a runner, to beg for aid with all speed (Milt. 4, 3).

(6) At home ten practors are created to command the army. They dispute among themselves whether to stand a siege, or to march out to battle (Milt. 4, 4).

(7) Milhiades urges strongly the latter course (the pitching of a cnup), as likely to encourage the citizens and to discourage the enemy (Milt. 4, 5).

- (8) The arrival of a thousand Platagans at Athens turned the scale in favour of Miltindes. N.B.—The 1,000 Platagans made the total Greek force 10,000 (Milt. 5, 1).
- (9) The Athenians, moved by Miltindes' weight (auctorites), march out and encamp in a smitable spot (Milt. 5, 2).
- (10) Next day, at the foot of the hills in a position strong by nature, i.e. protected by mountains, and improved by placing trunks of trees to impede the operation of the enemy's cavalry, they join battle (Mill. 5, 3).
- (11) Datis perceived the disadvantages of the position, but trusted to superior numbers and was anxious to engage before the arrival of the Spartans (Milt. 5, 4).
 - (12) He drew up in line of battle 100,000 foot and 10,000 horse.
- (13) But the Athenians so completely routed a fee of ten times their own strength that the Persians fled not to their camp but to their ships (Milt. 5, 5).

*Now in this account there are a certain number of obvious anachronisms which may with great probability be assigned to Cornelius Nepos himself. The 'creation' of ten practors (6) (apparently at the last moment), the insistence on the pitching of a camp (7, 9) and the auctorities of Miltiades. (10) like the more harmless royal pracfects (3) and Persian camp (13), have a right Roman ring which betrays their origin. From the same source came in all probability the impossible name Phidippus (5) and the palpable arror in the estimate of the distance between Marathon and Athens (4) (10 miles instead of 22). But apart from these blemishes the story has a coherence and plausibility which has led many modern writers to infer its truth. In particular they are inclined to adopt Nepos view as to the command at Marathon, and to accept his statements that the debate among the generals

took place at Athens and dealt with the question whether the Athenians should take the field or not (6), and that the decision to do so was due to the insistence of Mittiades and the arrival at Athens of the Platneau contingent (8). At first sight it would certainly appear that in all these points, Nepos who is clear, coherent, and consistent, is superior to the hesitating and confused account of Herodotus. Yet a closer examination shows that there is more truth in the doubts and inconsistences of the historian than in the

neat solutions of Cornelius Nepos.

Taking first the question of the command explicitly Herodotus declares (vi 110) that the command (πρυτανηίη) circulated amongst the ten generals. each being entitled to claim it for one day, so that Miltiades only holds it (till his own day comes round) by grace of his colleagues. But there is a latent tendency to regard him throughout as commander-in-chief, as is shown by the ascription of all the Athenian movements to him, and by the plirase των ο δέκατος ήν Μιλτιάδης (vi. 103) which would to contemporaries suggest that he was primus inter pures.26 This view is developed by Nepos (Mill 4, 5; 5, 2), though he too implies that Milliades has to persuade his colleagues [Unus Miltiades maxime mitebatur. . . . Quo factum est ut plus quam collegae Miltiades valeret. Eins ergo anctoritate impuisi . . .]. In Justin (ii. 9, 10) the other generals vanish, Miltiades rules alone [Miltiades et dux belli et anctor non expectandi consilir]. But in both these late versions, and therefore presumably in Ephorus, the polemarch has absolutely disappeared. Yet the explicit testimony of Aristotle (Ath. Pol. 22, 2, cf. 3, 2) that the polemarch still led the whole army, the ten generals doubtless commanding the tribal regiments, should surely be accepted. Dr. Meyer, who rejects it " takes no exception to Aristotle's statement (Ath. Pol. 22 5) that the lot was not reintroduced for the archonship till 487 n.c. And that statement removes the only real obstacle to the retention of the command by the polemarch in 490 s.c. It would indeed be incredible that an official appointed by the hazard of the lot should lead the army, but if the polemarch, as well as the strategi, was an elected officer, what reason is there for refusing him the position of general? All the incidental points in Herodotus and Pintarch, especially his leadership of the right wing,20 the natural post for a Greek general. his vote in the council of the strategi, the language of Miltiades' appeal to him, and as it would seem his possession of a casting vote," strongly support the view that while in the direction of the war the polemarch must consult the council of strategi, he yet remained at Marathon president of the council and commander-in-chief of the army. If this be so, Nepes and Justin have cleared away the confusion of Herodotus' mirrative by the omission of its more historical elements, and have left us only the erroneous popular opinion which insisted on making Miltiades not

[#] Cf. Mearus meris (Thue, 1 116, ii, 13, ste.)
F Geschiehte des Alterikums, iii. § 201, n.,

[#] Hdk. vi. 111 : Plat. Quant. Com. I. 10, 3, Mor. 628 :

Eur. Sapp. 857; Xen. Hell. ii. 4, 30.
Hdt. vi. 109, 110. Militades language resembles that of Themistockes to Eurybindes, Hdt. viii. 60.

only the inspiring genius of the Athenian army but also its nominal commander.

Again the removal of the debate among the generals from the field of Marathon to the city of Athens II seems at first sight rational and probable. No doubt a debate at Marathon, whether the Athenians should fight in the field or not, would be an absurdity, but there is every reason to suppose that the determination of this momentous question did not lie with the generals and therefore cannot have been decided by them either at Athens or at Marathon. We have the distinct testimony of Aristotle (Rhet iii, 10, 1411a 10) supported by that of Demosthenes (de Fals. Leg. § 303 with the scholiast) that it was determined by a decree of the people moved by Milliades. And even if the direct evidence were less clear, precedent and analogy would lead us to suppose that the question of taking the field or staying within the walls would be decided by vote of the whole body of citizens. Milliades in personding them was the true author of the strategy, as later of the factics, which won the triumph of Marathon. But no room is left for the plansible story in Nepos of a decision taken at Athens by the board of strategy. On the other hand the debate at Marathon rightly interpreted is neither unlikely nor undesirable (as Mr. Casson calls it, p. 72). It is quite clear from both the more sober accounts of the campaign 25 that at first the Athenians at Marathon remained strictly on the defensive. The change to the offensive. caused probably by the division of the Persian force would naturally be debated in the Atheman conneil of war, and such a debate would obviously take place in the field, when the position and movements of the enemy were known. If the decision to take the field did not lie with the generals, their vote cannot have been determined by the arrival of the Plataeans. And this is of the essence of the story told by Cornelius Nepos (Milt, 5, 1, 2). It is therefore irrelevant to argue, as does Mr. Casson (p. 73), that it would be much easier for the Platacans to march to Athens than to Marathon, or oven that if they were going to Marathon they would inturally pass through Athens. The question between Herodotus and Nepes is far more fundamental, viz. had the arrival of the Plataeans anything to do with the decision of the strategi (or of the Assembly) to take the field | In opposition to Nepos it may fairly be maintained that unless the Athenians had already taken the field the Plataeans would never have come to their aid. No Greek state felt in duty bound to send its forces to stand a siege in the town of an ally but only to join an army in the field. This is the most probable explanation of the mission of Philippides. He was to tell the Spartans that the Athenians were about to take the field against the invading Persians, and to bid them send with speed the succour due in that case, and in that case only, to their allies. Conversely when the Eretrians refuse to fight in the field and take refuge behind their walls, the Athenian cleruchs

Occia. Nep. Mill. 4, 4-3, 2, as against orators and Justin.
 Hilt. vi. 103, 100.
 Herodotus and Nepos as against the

from Chalcis leave them to their fate. The arrival then of the Platacans whether at Athens or at Marathon must have been the effect and not the cause of the resolution of the Athenians to take the field. And in that case it is far more likely that they only joined the Athenians in their camp on

the hills above Marathon, as Herodotus implies.

There remain two items in Nepos which have been thought to show that Ephorus possessed information withheld from us by Herodotus, viz. the total forces engaged on either side, and the immediate preliminaries of the actual battle. As to the numbers of the opposing armies it is of course the fact that Herodotus is silent, though he gives precise figures for the slain. But the silence of Herodoties as well as the moderation of the numbers he gives of the fallen, is all to his credit, since it shows that he profess not to give figures which he believed to be untrustworthy and only to record those which were supported by good evidence. And the figures given in Nepos rest in all probability merely on the conjectures of Ephorus. His figure of 10,000 for the Greeks would appear to have been differently understood. Justin (ii. 9, 8) makes the Athenians 10,000 exclusive of the 1,000 Plataeans, Nepos (Milt. 5, 1) renkous this whole force at 10,000 and consequently the Athenians at 9,000. In this he has the support of Pausanias (x. 20, 2) and of Plutarch (Mov. 305 s). But it is obvious that both sets of figures rest on a rough estimate of 1,000 hoplites to each Attic tribe. Such a number is likely enough and is supported by the numbers given in 470 g.c. 26 but this prabalbility is no proof that Ephorus drew it from an earlier author. And the other numbers in Nepos range from the improbable to the impossible. It is highly improbable that the Plataeans should in 490 have been able to send a thousand men to Marathon, since in 479 R.C. they could only muster six hundred to fight in their own land, doubtless the utmost effort of which the little city was capable.22 Again the 210,000 warriors attributed to the Medes (Milt. 4. 1) are no doubt an improvement on the 500,000 of Lysias (Epitaph. and Pinto (Menex. 240 A) or the 600,000 of Justin (ii. 9, 9). But 210,000. or even the 110,000 said to have taken part in the battle (Mill. 5, 4), is a number ridiculously beyond the power of an ancient fleet to carry. Even if the Persian fleet really numbered 500 galleys Nep. Milt. 4, 1) or 600 galleys beside horse transports (Hdt. vi. 95), it could only have carried some 100,000 or 120,000 men, including the crews amounting probably to 50,000. Thus the 200,000 of the whole force, or the 110,000 combatants are alike incredible, though less absent than the rhetorical exaggerations of the orators and Justin. We need not then consider the numbers in Nepos to be anything more than the more or less probable conjectures of Ephorus. And that such is their origin is suggested by the fact that the estimate is probable enough in the case of Athens where Ephorus had adequate knowledge, improbable

(Hdt. ix. 102 f.).

^{**} Hdt. vi. 100.

[&]quot; Thid, vi. 117.

^{*} Eight thousand at Phriam (Hdt. ix. 28 and sa.) and an amountain number at Mynals

Helt is 28 Beloch, without sufficient ground, custs doubts even on this smaller number (Berollerung, p. 165).

for Plataes where he would have less information, and frankly impossible in

the case of the Persians where he would be ignorant.

In the actual description of Marathon the best points in Cornelius Nepos (Mill, 5, 3, 4) are the recognition of the mountains as a feature of the defence, the means taken to strengthen the position artificially, and the account of the immediate preliminaries of the battle. It is the coherence and probability of his view that Miltiades only accepted battle in a defensive position on the hills, strengthened against cavalry by the use of trees, while Datis took the offensive in spite of these disadvantages to forestall the arrival of the Spartans, which has caused so many modern historians to prefer his account. Yet even here there is something to be said on the other side. The vagueness of the location of the camp, "loco idoneo," contrusts unfavourably with the specific Temenos of Heracles in Herodotus (vi. 116). And Nepos leaves us to guess how the trees were used to protect the Greek flanks against the dreaded cavalry. Again, the presence of the Persian horse is a doubtful gain. Not only is there the allence of Herodotus against it and the clear, if late, tradition preserved in Suntas xmple inners, but if it really was present, how can it have failed to leave any mark on the traditions of the battle ? Must it not, as at Plataes, have done something to cover the retreat of the rented infantry? Above all, how can it possibly have been re-embarked in face of the Athenian pursuit? No satisfactory explanation of these outstanding difficulties has ever been given.

Again, while I gladly acknowledge the reasonableness of the motive which leads Datis in spite of the strength of the hostile position to press his attack on it, viz. his desirs to anticipate the coming of the Spartans, yet in his action as reported there is a curious inconsequence. Though his total force has been given as 200,000 foot and 10,000 horse (Milt. 4, 1) and he relied, we are told, on numbers, yet he only used in the battle 100,000 foot and 10,000 horse (Milt. 5, 4). The discrepancy can hardly be a mere oversight of Nepos, as in his brief narrative the figures are necessarily so close together that the contradiction would strike the most careless of writers. I would rather (with Mr. Munro) see in it a faint trace of a tradition that the Persians fought with but half their force at Marathon,

because a part had already taken ship again for Phalerum.

Further there is a patent defect in the narrative of Cornelius Nepos. There is not a word about any movement in the battle except the flight of the Persians to their ships. We might perhaps ascribe this to the brevity of the Roman compiler, were it not that Polyhius singles out for censure in Ephorus his ludicrous inability to understand and explain in detail the movements and operations of troops on the actual field of battle. The stage battles of Diodorus abundantly justify the severe judgment of a critic not in general unfavourable to Ephorus. And the modern followers

Polyb. nii. 25 L. Cl. Manan, Hatt. IV-VI., vol. ii. p. 211.

For Thermopylan, cf. sup. and Boseli, nº, 623, n. 5. For Plataes, Lenetra, and

Mantines, Holm, History of Greece (E.T.); in. pp. 18, 104, 129.

[≠] Polyb. 111, 28,

of Ephorus " are driven after all to pilfer from Herodotus the famous charge of the Athenians, converting it (against all the ancient evidence) into a pursuit of the beaten Persians whom the Athenians had already repulsed from their position on the hills. The great mound [Soros] which marks the tomb of the Athenians still stands to bear alent witness against them. Such a tomb would surely be placed where the dead by thickest and the fray had been most severe. Now if the Athenians charged down from the hills before the battle, the struggle would naturally be just where the Soros stands, but if the Persians first attacked them among the hills, the centre of

the fight would be a mile away,

Lastly, the evidence for the view of the buttle to be found in Nepos is of the weakest. There is not a trace of it in any other account, not even in Justin. It traverses directly some of the clearest points in Herodotus, viz. the long delay at Marathon, and the final assumption of the offensive by Miltindes. It must be regarded as a critical reconstruction, unless it can be shown to rest on some earlier authority than Ephorus. Hence Mr. Casson (p. 83) attempts to gain support for Ephorus by discrediting Herodotus. He asserts that "Herodotus used Alcameonid sources for the greater part of the incidents he describes and particularly for the battle of Marathon. Whatever the other sources were that he used it is fairly certain that they were neither those of the house of the Peisistratidae nor those of the Philaidae. He then argues at length that the divergent tradition in Ephorus and Nepos came from Philaid sources transmitted through the Hepaika of Dionysius of Miletus. Now there is not and cannot be, the smallest proof either that Ephorus used Dionysius or that Dionysius followed Philaid tradition. The only fragment of Dionysius extant refers to Persian history, and not even the titles or scope of his works are certain. The statements made about him rest wholly on learned conjectures made in recent times.43 I think, then, we may be spared unprofitable speculation on a nebulous subject if it can be shown distinctly that Herodotus, in the life of Miltiades in general, and at Marathon in particular, clearly made use of a source favourable to Miltiades as well as of the heatile Alemaeonid tradition. And I am confident that this can be done. Had Mr. Casson limited his statement to the Parian expedition it might have passed muster; it is little short of absird when extended to the earlier life of Miltindes. Has Mr. Casson forgotten the patriotic advice said to have been given by Milliades to the Greek tyrants at the bridge over the Danube,44 and the earlier history of the Philaid house given in connexion with the colonisation of the Chersonese, and again in close connexion with the story of Marathou itself? " Here, in particular, details are mentioned (e.g. about the family tomb) which can have had no great interest, except to the Philaid house. Again, the one strong argument

at v.y Delberrok, Good, for Kriegsbanst, P.

⁴t Cf. Pann. f. 32, 3; Time, H. 34.

[&]quot; Ct. Bury, The Amount Greek Historians, pp 22-4, and K/in, il. 334, iii. 330 (Lebream-

Hanp(), iv. 203 (Pridekt, etc.

[&]quot; Hilt, iv. 137.

[&]quot; Itsid, vs. 34 41. = Thid. cl. 103.

against the use by Herodotus of a Philaid source, viz., his lack of information about Miltiades between the Scythian expedition and the Ionic revolt, applies with equal force to Cornelius Nepos, and against Nepos (Milt. 1), we may add the charge that he has confused Miltiades, first tyrant of the Chersmess, with his greater relative and manesake the victor of Marathon. How, then, can we believe that Nepos (through Ephorus) preserves for us

Philaid traditions neglected by Herodotus?

Coming to Marathon itself, doubtless Mr. Casson (p. 83) is right in holding the defence of the Alemaeonidae 48 to have been inspired by the house itself. But the way in which it is introduced should have warned him. that Herodotus is here turning from one authority to another, as may be seen by comparing the baid statement of the charge with the highly artificial defence." And in his account of the campaign Herodotus in some points, emphasizes, and probably exaggerates, the part played by Miltiades, in ascribing to him the actual leadership and the winning over of Callimachus.400 Mr. Casson (p. 75) is offended because to Herodotus the hattle was a wild forlorn hope of men inspired with almost supernatural courage, whereas Nepos implies that it was skilfully conducted and a triumph of tactics. The contrast is exaggerated, but, even were it true, it proves nothing for his purpose. For as he elsewhere (p. 89) admits, 'all the battles of the Persian Wars are, if we believe Herodotus, brilliant examples of beroism and poor ones of strategy. Unless then it can be shown that in every instance Herodotus happened to use sources adverse to the general in command, we must look for the explanation elsewhere than in the use of a hostile tradition. It may be found in two conclusions drawn by Dr. Grundy 34 from his study of the whole war. In his final summing up he contrasts with Herodotus' extraordinary accuracy in statements of facts '(1) his lack of information as to the motives of those in command, and (2) his lack of experience such as might have enabled him to form deductions as to those motives. In fine, Herodotus produces the impression that there was a want of generalship, because he describes all battles, not Marathon only, from the point of view of the soldier in the ranks, not that of the officer in command. This and not an anti-Philaid bias is the reason that he fails to do full justice to Milliades.

And apart from this failure in military knowledge and insight there is reason to believe that Herodotus keeps closer to the Philaid tradition of Marathon than Ephorus. Where should that tradition be found if not in the picture of Marathon in the Stoa Poikite, called after Peisianax, a relation of Cimon (Plut. Cim. 4) and doubtless built to add bustre to the Philaid house! In that picture there were to be seen fighting for Athens, Miltiades, encouraging his men (Aesch. v. Ctes. § 186), the polemarch Callimachus (Pans. i. 15, 3), Cynegirus (Plin. N.H. xxxv. 57) and Epizelus (Act. N.H. vii. 38). They all are duly found in the pages of Herodotus (vi. 114, 117),

[#] Cf. Camon in Klio, xiv. 87; Grandy, Great Persian War, 146, n.

^{*} Hill vi 121-1

[&]quot; Ibid. vi. 115 ani 121-4.

ov Haid. vt. 109, 110.

[&]quot; Great Personn War, p. 579.

but only Miltiades is mentioned by Nepos (Milt. 6, 3). The Philaidae may well have preferred to record the heroic courage inspired by Miltiades' leading, rather than the careful tactics which baffled the energy. No picture can give the movements of troops, but I cannot doubt that the three scenes set before as by Pansanias (i. 15, 3) are in accord rather with the fierce charge regarded by Herodotus as the essence of the battle than with the cautious defence described by Nepos.

Note.—I can see no reason to doubt the traditional date and origin of the Stoa Poikile and of the picture of Marathon. I should myself accept the theory of C. Robert (Herm. 1890, and Winckelmannprogramm. 1895) and Pomtow (Stud iii 133) that the battle of Oenoe depicted in the Stoa had nothing to do with the capture of that town by Iphicrates airc. 392 n.c. but is to be placed in the time of the Argive-Attic war against Sparta 460-55 n.c. To me the arguments for connecting the Argive memorial of Oenoe at Delphi (Paus. x. 10, 3) with that war seem convincing, but such questions of epigraphy and sculpture must be left to experts. Even if their verdict be adverse and I am constrained to date the fight at Oenoe about 392 n.c. and to identify the sculptor of the memorial at Delphi with the Hypatodorus dated by Pliny (N.H. xxxiv. 50) about 370, I should still maintain that only the picture of Oenoe should be brought down to the fourth century, while the Stoa itself and the more famous pictures in it belong to the middle of the fifth century.

The fight with the Amazons is definitely ascribed to Micon and approximately dated by its mention in Aristophanes (Lysist. 678 with the scholia), the other pictures are by the general consensus of our authorities ascribed

to Polygnotus and his school.

The doubt whether Panaenus (Piiu. N.H. xxxiv. 57, Paus. v. 11, 6) or Micon (Arrian, Alex. vii. 13, 5; Aelian, N.H. vii. 38) was the painter of the battle of Marathon is for our purpose negligible. All I contend is that the Ston itself, and the picture of Marathon it contained should be regarded as a memorial erected by a connexion of Miltiades, intended to glorify the Philaid house in the person of its greatest member.

I turn to the expedition against Pares. Here the case for Ephorus and against Herodotus is undoubtedly stronger, so that many critics prefer the later historian. Herodotus, though his account has one of the marks of genuine tradition, the definite length of time (twenty-six days) assigned to the expedition, discredits himself by two characteristic failings: (1) his ascription of a great event to a petry personal motive, the rancour of Miltiades (2) his preference for a version of the tale (the Parian) attributing the result to divine interference. Further he may fairly be suspected of

E.g. Dr. Macan, Hall. IV-VI, vol. ii.
 Plant vi. 133.
 App. xi.
 Hall, vi. 135.
 Hall, vi. 135.

giving as the universally accepted Pan-Hellenie account what was in fact the version prevalent at Athens, hostile to Miltiades and possibly spread abroad by his Alenfaeonid opponents. On the other hand, there is here no doubt that Nepos is following Ephorus closely (cf. sup. p. 48) so that his account gains whatever weight we attach to the authority of that historian. It is also clearly free from the prejudices which bias Herodotus, whether

religions or political.

In fine, Ephorus gives us what is on the face of it the more probable story of the Parian expedition. For the filibustering attack on Paros, inspired by the private spite of Miltiades there is substituted a general commission to punish islands that had medized, followed by the forcible compact of several and by the submission of others. A public policy of establishing Athenian power in the Cyclades replaces the petty personal motive alleged in Herodotus. Yet this general commission against the medizing islanders and its partial execution may very possibly be no more than an inference from the pretext given in Herodotus (vi. 133). Again the concealment of the object of the expedition ascribed to Miltiades by Herodotus (vi. 132), which has offended the critics, would after all be the only way of preventing its betrayal to the Parians. and might be absolutely essential to the success of the enterprise.

On the other hand, a general project of empire over the Cyclades seems over hold at a time when Athens was quite unequal to the task of protecting her own shores against the Persian and cannot yet meet Aegina on equal terms in the Saronic gulf. The precedent of Pisistratus has been thought to justify it. But it would appear that while that great tyrant adopted the most vigorous measures for securing the Hellespont is and the essential corntrate to the Eaxine, in the Aegean he was content with a policy of peaceful penetration through the cultivation of Ionic sentiment is and an alliance with

Lygdamis of Naxos. 81

And it is strange to find Mr. Casson (p. 71) supporting his view that the control of the Cyclades was the aim of the Parian expedition by appealing to an earlier statement in Nepos (Milt. 2, 5) that Miltiades, at the time of his occupation of Lemmos, 'pari felicitate ceteras insulas, quae Cyclades nominantur, sub Athenicosium redegit potestatem. What trace is there elsewhere of this alleged Cycladie dominion before Marathon! Surely when Datis sailed across the Aegean to attack Athens, some mention of the fact that the islands on which he landed were already Athenian must have survived. Again, Lemmos and Imbros have everything to do with the true goal of Miltiades, the Chersonese, as has been forcibly brought home to us by our own operations in Gailipoli, they are utterly separate from the Cyclades which can of course be far more easily reached from Attica itself. The identification of the islands, other than Lemnos, conquered by Miltiades.

^{**} Corn. Nep. Mill. 7, 1.

F Cf. the case of Naxon, Hdt. v. 33 f.

[#] Hdt. vi, 80, 91

[&]quot; Thirt v. 94 f.; vs. 265 f.

to Mint 1, 64.

⁴⁴ Told. 1: 6L.

before 490 s.c., with the Cyclades would seem to be a gross geographical blunder. If it was made by Ephorus, as well as by Nopos, it so far discredits his account of Miltindes' later successes in that region. Lastly, there is nothing to show that any of these islands were dependent on Athens 490-80 B.C. No doubt it is possible that some submitted for the moment and at once rebelled again after the failure of Miltindes at Paros. Nevertheless it remains true that these allegations of a wide policy of conquest and of partial success in carrying it out are discredited by the absence of any subsequent trace of their reality. In fine, if we may fairly charge Herodotus with degrading a serious attack on Pares into a private vendetta, we must recognise also that Ephorus has been led to exaggerate its scope and importance. His conception of an Athenian empire over the Aegean islands. using the Cyclades as a bulwark against the assault of a Persian armada, is redolent of the period when the grand fleet created by Themistocles controlled the seas. Not even in 480 B.C., after its creation, did the Greeks venture out into the Aegean to meet Xerxes, since to face in open waters a fleet superior both in number and in quality of would have been to court defeat. How much less can the Athenian navy of fifty or seventy ships 64 have dreamed of going out to meet the thousand galleys of the Great King !

Of the two accounts given of the failure to take Paros neither is really satisfactory. The Parian story of Herodotus (vi. 134 f.) is permented with his theological conceptions of viscous and vegeous, and marked by a hias against Militades Ephorns substitutes a hasty and mistaken inference (made apparently by both besieged and besiegers) that an accidental fire on Myconus was a signal that Datis was coming to the relief of the island 65 The source of this story is probably an explanation of the proverbial phrase ava-apraters. Dr. E. Meyer " has briefly shown how fond Enhorns was of using such proverbs and how untrustworthy is the information drawn from them. In this case it seems fairly clear that the expedition of Millindes must be placed in 489 E.C. (spring?), since Marathon was probably fought in September, 490 a.c. and there was an interval after the battle during which Miltiades enjoyed his well-earned renown.47 Now in 489 R.C. Datis can hardly have been supposed to be langering in the neighbourhood of Paros. Further, the location of the fire on Myconus may well be a mere inference from the story of Datis' stay there in Herodotus (vi. 118), while the 'in continenti' of Nepos is a sheer impossibility due to another of his gross geographical blunders. We cannot, it would seem, discover from either author the true reason for the failure of the Parian expedition. Here, as elsewhere. Ephorns gives us little more than a plausible but shallow attempt to rationalize the biased and defective tradition preserved in Herodotus.

Lastly, when we come to consider the trial and death of Miltiades we

[#] Hdi. vm. 10, 60, stc.

Pace Dr. H. Delbetich, Gembichte der Krieyebunet, i[‡], 75, 76.

[&]quot; Hilt. vi. 88, 92, 132.

a Sa Ephorus, fr. 167. Mulley, F. H.O. L.

^{263.} Nepos (Mitt. 7, 3) absurdly substitutes for Mycomis 'in continenti,' and more prodently for Datis 'olassiarii regit.'

^{**} Forschungen zur ulten Geschieher, 1. 19.

[#] Hdt. vi. 132

find the simple narrative of Heroslotus grossly perverted by Ephorus. It is true that the charge brought against him of deceiving the people (awarn) is somewhat vague, but it is at least as probable as the treasonable taking of bribes alleged in Nepos (Milt. 7, 5) and Justin (ii. 15, 19). And Nepos discredits himself himself by naming, as the chief defender of Miltindes, his brother Stesageras, 4 who had died long before (Hdt. vi. 34). Nor does the alleged motive for his condomnation, fear of tyranny, seem to be anything more than a trite moral drawn by Nepos (Mill. 8), unless it is a misplaced recollection of the earlier charge brought against Miltiades as soon as he was finally driven from the Chersonese (Hda vi. 104). In any case we must keep to the bare facts given as in Herodotus (vi. 136) that Milliades died soon after his trial, and that Cimon paid his fine. The way in which this simple statement was decked out with chetoric and scandal does little credit to Enhorus, even though he be not the worst offender. Yet we cannot but attribute the origin of the story to Ephorus when we find Cornelius Nepos (Cimon, 1) supported in the main by Diodorns (x. fr. 30, 32) and by a direct. if scanty quotation from Ephorus in Schol. Arist, p. 515 (Dind.): And the story is that first Miltiades and then Cimon was cast into prison till be should pay the fine, and that the money was eventually procured either by Cimon's marriage to a rich wife, " or by the marriage of his sister Elpinice to Callias, the wealthiest man in Athens 70 In all this there is plainly to be seen, first, a desire to heighten the pathos of Miltiades' end ; and secondly, a tendency to accept in some form or other the scandalous stories current about Cimon and his sisten? We may safely dismiss these later accretions as unhistorical, indeed they are only worthy of mention because they throw further light on the untrustworthiness of Ephorus and are a further proof that we should not follow Dr. Meyer 72 in supposing all the scandalous stories found in late biographers to be derived from a biographical tradition. Besides the instances already given, the account given by Ephorus of the origin of the Peloponnesian war 12 proves to demonstration that the historians of the fourth centary were tarred with the same brush as the biographers.

W. W. How.

The cowling is doubtful, but the context makes it burly certain that Nepos is referring to Sissagorus (Möt. 7, 6).

So Diodorus, x 32, and apparently Episorus (Sohol, Area, 315). Mallov, P.H.G. to 642

³⁰ So Corn Nop. 1 im. 1, 3, 4.

H Cl. E. Moyer, Forechungen zur ulten.

⁼ Operate p. 66.

W Preserved in Diodocus, xii, 38-40, and by him asserbed to Ephorus, Cf. E. Meyer, op. sit. pp. 329-32.

THE NORTH GREEK AFFILIATIONS OF CERTAIN GROUPS OF TROJAN NAMES.

In the Quarterly Review for July, 1916: Professor J. B. Bury writes as follows:—

The Trojans were doubtless early immigrants from the Balkan peninsula. How comes it that their rulers have Greek names? The name of Priam himself is not indeed obviously Greek, but in its Acolic form Perramos it may well be so; and Priam's father was Lagrandon. Hector is Greek as Nestor, and was in later time the name of a prince of Chios. Paris has the second name of Alexandros; and the natural assumption is that "Paris" was a Phrygian mane given him by his Phrygian mother, Hecuba. The names of the other children of Priam who come into the story-Cassandra, Helenus, Deiphobus, etc - are Greek. We have to choose between two inferences. Either the bards deliberately substituted Greek for foreign names, or the rulers of the Troad were tireek. The second alternative, startling as it may appear, seems to us to accord with other evidence and to afford the most satisfactory explanation of the data of the Hind. If there had been any great or radical distinction between the Achaean and Trojan civilizations it is difficult to see how these could have been completely ignored, or successfully concealed by poets who gave such a faithful representation of the topography and evidently were fully acquainted with the character and resources of the enemy. . . . Is there any good reason to resist the simplest and most logical conclusion that Greeks had conquered the Troes and settled in the Troad, and that Mycenaean Troy was a Greek outpost. Further on Professor Bury writes: 'The Achaeans had reduced the great Greek states of the peninsula; in attacking Troy they go on to reduce a great Greek state which had established itself in Asia Minor. Can we conjecture whence the Greek founders of Troy came / Was it possibly from Attica / Professor Bury refers to the appearance of the Attic Poseidon, Erichthonies, in the Trojan genealogy and to the legend that Poseidon helped to build the walls of Troy as possible support for his theory.

The connexion of Troy with the Balkans and the Danube has been pointed out by a number of writers in recent years and I have discussed some aspects of this connexion in several papers. I wish to present a point which so far as I know has not been arged before and one which seems to me to strengthen the northern claim as against that of Attica. This is the coincidence between the typical Trojan names and those which are found most commonly in the ruling tribes of the northern part of the Balkan peninsula. The fact that Priam's son Paris has the Greek name of Alexander has attracted universal attention and only second to this in interest has been the fact that Priam's daughter Cassandra is the femiline of a well known name, Cassander, in the Macedonian royal line. (See Hoffmann, Makedonen, 208-209.) In his study of the Macedonians Hoffmann shows (p. 119) that Wilamowitz has been unfortunate in his choice of names used to illustrate his theory that the royal house of Macedon in its eagerness for Greek culture adopted Greek heroic names in order to make connexions with the early Greek tradition. Hoffmann rightly points out that the son of Priam was not a Hellene in the eyes of Macedonians any more than in those of Greeks and moreover that the names of Alexander and Cassander could not possibly have been given to the Macedonian heirs-apparent in remembrance of the Weiberhold Paris or the 'Unglücksseherin' Cassandra.

I quote Hoffmann further in order to use his argument to strengthen my own thesis.—'It is precisely the names of the great (Greek) heroes of Homer that are rare in the Macedonian families and this should give us pause. If our convincing evidence testifies that the Macedonians were Greeks, why should not the names common with them which also appear in Greek heroic legend have been true and autochthonous Macedonian names (*) (p. 20).

I hope to show in the following examination of Trojan names that the same names or names of the same type prevail in and are characteristic of the northern parts of Greece, which are in immediate contact with the Danubian region and trade-route.

The compounds Alexandros, Cassandra, Lusandros, Peisandros, Alkandros (a Lycian ally) names of Trojans in the Riad are by-forms of Alexanor, Kassanor, Lusanor, Peisanor, etc. (Fick-Bechtel, pp. 58 and 60) Such names are especially characteristic of Macedon and North Greece. (See Hoffmann and Fick-Bechtel, loc. cit.) In the Head the great majority of names of this type belong to Trojans and to chieftame, or, in one instance, to a priest's sen, whose ancestry belongs to the north directly or in immediately traceable connexion. The one exception is Hypsenor, son of Hippasos, who appears as a Greek in one of those casual lists of the slain in which Homer disregards distinctions made elsewhere. Hypsenor in II. 5, 76 is a Trojan priest of Skanminder, to the account of whose death several lines are given, and the sons of Hippeasos in the eleventh book (428) are Trojans, Charops and Sokos. The names of this formation which are consistently Trojan are Agenor, Antenor, Bienor, Deisenor, Hyperenor, Peisenor. Hypsenor is also Trojan when the name is of any real significance, as already noted. There remain in the Riad Agapenor, Elephenor, Prothocnor, and Euchenor. Of these the first. Agapenor, is lord of the Areadians, who dwell about the tomb of Aepytos. Wilamowitz (Phil. Untersuchungen, ix. 50 ft.) has shown the connexion of this tribe with Thessaly, and I have in other papers (T.A.P.A. 1915, 121-128; C.J. 1917, 587-592) called attention to them as sharing the epithet 'close-lighting' with the Dardanians, the Mysians in Europe, and the

Myrmidons. Elephenor belongs to the royal family of the tribe of Abantes in Euboca. Their northern method of fighting is noted by Platarch (Theseus, I. 5) and in the Catalogue their fashion of dressing their hair is mentioned in a way recalling the Thracian and Achaean mode. We learn from Aristotle, quoted by Strabe, that they were a Thracian tribe that had been resident in Phonis before coming to Euboca (Strabe, x. 445; Herodotas, i. 146 x). We evidently have to do with persistent racial characteristics surviving among immigrants. The next name of this type is that of Prothogner, who is mentioned in the Catalogue as leader of the Bocotians. His death occurs in the fearteenth book. He is mentioned in the catalogue along with Arkesilaos and Klonics, two names of markedly Macedonian character (see Hoffmann's list of Macedonian manes, pp. 278 ff.).

There is one Bocotian patronymic of this type, Alegenorides, belonging to Promachos in 14, 503. There remains the name Euchenor of Il. 13, 663, He is the son of the seer Polyides, about whom Sophocles wrote his play entitled Mairrers η Πολύιδος, and is of the stock of Melampus, who according to the form of the legend preserved by Pindar and Diodorus, came from

Thessalv.

Of the names of this formation then seven are Trojan, one is given to a leader of the Thracian Abantes, an immigrant tribe with northern characteristics in the island of Euboea, one is a Corinthian whose family comes from Thessaly, one is a leader of the close-fighting Arcadians, another immigration from Thessaly. There is left but one, Hypsenor, who is really Trojan when Homer stops to think, but dies in a casual list of Greeks, a list marked with the carelessness characteristic of books in which the great battles occur.

Another group of names which is almost exclusively Trojan are those ending in damas. They are Adamas, Amphidamas, Eurydamas, Chersidamas, Hippodamas, Laodamas, Poulydamas. These have but one exception to their overwhelmingly Trojan character, namely Amphidamas, which in the tenth book, that book of so many exceptions, is applied to a Cytherean, while in the twenty-third (87) the name is given to a north Greek from Opus, father of the boy slain by Patrocius. These names again show Dardanian connexions and often belong to a priest or mantis. The most celebrated of these is the great Dardanian seer, Poulydamas. There is also Eurydamas. the Dreamer, and Iphidamas, the son of Theano the priestess, and brought up in Thrace. These names do not appear in the royal house of Macedon, as the -anor, -andros, group does, but they are also characteristic of north Greece. The name Polydamus belongs to Thessalian tyrants of Pherac in historical times and a Polydamas of Pharsalos was envoy to Sparta in 375 s.c. Xenophon describes him as hospitable and magnificent in true Thessalian manner (Hellen, 6, 1, 3). Another Poulydamas of Skotussa in Thessaly was victor at Olympia in the pancration in 408 n.c. His statue was made for Olympia by Lysippus and legend grew rapidly about his name. (See Frazer, Paus & 17 ff.)

I should judge the name Polydanna to be like Alexandros Alexanor, Amynandros, Amyntas Alexas originally a name for a northern deity, afterwards given to kingly and priestly personages. The names Landameia, Eurydameia, Eurydice, and Eurykreousa, have the same history according to Gruppe and other writers on Greek religion. The place names Antandros and Skamandros (the river) belong here.

Another group of names which is prevailingly Trojan is that in which Luo-forms the first member. These are Landamas, Laokoon (not in Riad), Laodike Laomedon, Laodikos (son of Antenor, in R. 4-87, but commade of Antilochos in 17, 699), Laogonos (16, 604; 20, 460) son of the priest of Idaean Zens in the sixteenth book and son of Bias in the twentieth, and Laodike, daughter of Priam, who bears a name famous in the Seleucid family, Laodameia is the Thessalian hereine and with the second of these names, Laodikos, forms the exception to the rule that these compounds in the Riad are Trojan names. There is a Leiokritos, son of Arisbas, whose name appears in the Ionicized form Δειδεριτος and is believed by Hoffmann to come from λείος, not λαός.

The names in which loss forms the last part vary between Greek and Trojan, Menelaos being Greek, Erylaos Trojan, Agelaos Trojan in 8, 257 and Greek in a miscellaneous list of Greeks slain in 11, 303, in which appear others who elsewhere are Trojan, i.e., Opheltes, Dolops, and Automoos. Arkesilaos, a strongly Macedonian name, is leader of the Bocotians with two others, Prothogner and Klonios.

The frequency of the tribal names in -ops among the north Greek stocks is noted by Hoffmann (op. cit. p. 131), citing Eduard Meyer and Fick. He quotes Ellopes, Dryopes, Dolopes, Deuropes, the town in Macedon Douriopos. With these names he connects the name of Aeropos, the grandfather of Amyntas. Of this type in the *Hind* are the Trojan names Dryops (20, 455), Charops, son of Hippusos (11, 426), Merops (2, 831), Enops (16, 401; 14, 445), Phaenops (5, 152; 17, 312). This last name is used of two or more people, always Trojans. Dolopion is priest of Skamander in 5, 77 and father of Eurydamas. Apollo takes the shape of Phaenops, son of Asios, in 17, 583, and of Asios, son of Dynnas, in 16, 718. The Charops of the Catalogue 672, husband of Aglaia and father of Nireus, is not a Trojan. Dolops is Greek in the miscellaneous list in 11, 303.

Among the single names that take us to Macedon is that of Argendes Polymelos, an unknown Trojan slain (16, 416) by Patroclus. His name is the one by which the members of the royal family of Macedon, the Argendae, designated themselves.

Hoffmann comments on the specially Macedonian character of the ending tor. The name Amyntor is noted by him as a true Macedonian formation. Hector is of course of this type as well as Alaster and Damastor, the first of which denotes a Trojan in 5.677 and in patronymic form is used with Tros in 20, 463, though elsewhere used of a Greek, while the second is used in patronymic form of a Trojan in 16, 416. Well known mames among the Greeks of this type are Nester and Kastor. In 16, 401 Thestor, son of Enops, is a Trojan, but the epithat Thestorides belongs to Kalchas.

The ending -koon, which appears as a single name as son of Antenor in J.H.S.—Vol. XXXIX.

11. 249 and 256, appears to have Thracian connexions. Koon is the son of Theano and is killed, in the eleventh book, defending his brother Iphidamas, who was brought up in the home of their Thracian grandmother. His wounding of Agamemnon at this time is referred to again in 19. 52. Demokoon is a bastard son of Priam, who comes from Abydes. His swift horses are mentioned. Hippokoon in 19. 518 is a councillor of the Thracians and a noble nephew of Rhesos. Detkoon in 5. 534 is in the company of Aeneas and is called the son of Pergasos, a Thracian-sounding name. He is said to have been honoured by the Trojans as much as the sons of Priam, because he was swift to light among the first. The priest Laokoon, the best-known bearer of this type of name, is not mentioned by Homer. He is called by later writers a brother of Antenor, the Dardanian leader, or of Anchises.

Usener (Rh. Mus. 1896, 354) regards these names as compounded with the verb κοειν, to hear, and translates Hippokoon as 'Der Rosse wartend.' I think this unlikely, and would suggest that the name may possibly have to do with the word καύεις found in Greek inscriptions in Lydia and discussed by D. M. Robinson in the American Journal of Philology for 1913, pages 362 following. Two glosses of Hesychius may bring these names in connexion with the god Koas (see A.J.A. 1913, p. 366), i.e. Εὐρυκόος = Εὐρυκόος and τὸ κόον = μέγα among the Laconians (Hes. s.v. Εὐρυκόος α). Deikoon is mentioned as son of Pergasos, a name which would have the same meaning as Priamos according to the etymology suggested for Priamos on page 47 of the American Journal of Archaeology for 1912. I quote as follows from the article on the first instalment of Greek inscriptions from Sardes, published by Professors Butler and Robinson—'Bria or Berga occurs frequently in the Phrygo-Macedonian languages, and there was a cognate form price or pergo, the first in Priamos and perhaps in Priene, the latter in

Πέργαμον and πύργος.

These groups of names, which are so overwhelmingly Trojan in Homer's use of them, which also have such a foothold in the legend and history of the Balkan area, confirm other evidence which points to that part of Europe from Epirus to Thessaly and the countries along the Danube and the Vardar, which are known by the archaeological remains to have been in contact with Greece, as the European home of the Trojans. Professor Bury rests his argument on the genealogy in the twentieth book and on the later activities of Athens in the Troad. For the Phrygo-Macedonian connexion we have the indisputable tradition of Dardamus and his migration and that of the close-fighting Dardanians and their neighbours, the metal-working Paconians. Dr. Walter Leaf says in Homer and History (p. 72 f.): The Phrygian language was closely skin to the Greek and the two nations had doubtless come down together or nearly together from the Danube valley. The Dardanians had taken the south-eastern road, while the Achaeans had passed on south-westwards. Hoffmann argues that the Macedonians were Greeks. Kretschmer, with the same view as that of Leaf, states the case more justly than Hoffmann. He says (Einleitung, p. 288) that we should regard

the Macedonians as a people closely related with the Greeks, who if they had turned toward the south could have become Hellenic no less than the Dorians, Thessalians, and Bocotians. But they spread out toward the north and absorbed a number of non-Greek races and so became allemated from the Hellenic race as it developed within the southern peninsula, and therefore they were denied the name Hellenic. The names of the northern area appear in Sparta especially.

The most interesting group of northern names consists of those which are obviously connected with deities. No name is more firmly rooted in Macedon, Epirus, and Thessaly than Alexander. The by-form of this, Alexanor, is a deity worshipped in connexion with Asklepios and in the form Alexenor is quoted by Hesychius from Aristophanes as an epithet of Asklepios. Another verb of apotropaic meaning, i.e., duties, gives the names Amyntor, Amyntas, and Amynandros in Macedon, Thessaly, and Epirus, while a tribe Amyntae is quoted as living is Thesprotia. In Athens the Amyneion and the god Amynos worshipped with Asklepios testify to the religious value of the word. The great Thessalian family of Alexadae have their name from Alexas from the apotropaic verb άλεύω, and I have discussed the verb άλειω in Classical Philology for June, 1918, in considering the derivation of the word d'Acerma. Names of this sort are appropriate to the time when as Halliday says in his book on Greek Divination, the connexion between mantosune and royalty was close. I quote him on this subject :- Indeed the kings of the legendary past were mantels, and they possessed the other functions of that office no less than the power of cleansing from blood" (p. 68); And like Salmoneus and Atreus the mantels were connected with the wenther, or the sun . . . The parentage of Medea and Circe shows the children of the sun as magicians and prophets' (p. 70).

Herodotus tells a story of the founding of the kingdom of Macedom by a bit of sun-magic on the part of Perdiccus, the little shepherd who became the founder of the Macedonian house of kings. It is probable that the name of the Sun Elektor comes from the verb ἀλέκο, which has also produced the name for that notable amulet, ἤλεκτρον, amber.

These sacred and royal names, Alexandros, Cassandra, Eurydamas, Poulydamas, and others, which could be shown to have the same psychological meaning in origin, are characteristic of the Balkan area as well as of Troy. I believe that they indicate that Homer preserved a genuine tradition of Trojan names and that the coincidence with north Greek names, especially of the Macedonian type, cannot be accidental, but adds weight to the other evidence for the Danubian provenance of the Trojans, or at least of the Dardanian inhabitants of Troy during the splendid time of the sixth stratum and at the time of the Trojan war.

I have not given a complete list of all the distinctively Trojan names, but rest my case chiefly on the names of the Antenor-Antandros, Alexenor-Alexandros, etc., type, together with those of the Poulydamas type and those which show the ending -ops. I attach importance also to the appearance of the name Argendes among the Trojans.

The names are interesting, not only from the historical, but also from the religious aspect.

The northern gentile names Dardanus and Paconides are used naturally

by Homer for individuals on the Trojan side.

The great name of Hector does not appear in the royal house or among the noble families of Macedon. A Macedonian of that name, 'Parmenionis filius, in paucis Alexandro carus,' is mentioned in Curtins 4-8, 7; 6, 9, 27 (Hoffmann, op. cit. 207). An intentional choice of the name of the weak Alexander-Paris cannot be imputed to the Macedonians, and the great frequency of the name of Hector's brother, while his own does not appear, must be due to the strong religious meaning (protector) which is seen in Alexandros, Amyntas, and Alexas, epithets attached in one form or another to many deities of healing whose worship originates in the Balkan and Danubian region.

GRACE HARRIET MACURDY.

A BRONZE HEAD OF THE FIFTH CENTURY B.C.

[PLATE L]

I.

A GENEROUS gift to the Ashmolean Museum, from Mr. E. P. Warren, has not only allowed the art-lovers of Oxford to enjoy an exquisite work of art, but has also enabled students of Greek sculpture to attain to a fuller knowledge of the style and technique of the great schools of the fifth century mc. Our head appears to have been broken off a statue; unfortunately it is not complete. And as it had to be put together and bent into shape, any measurements will be of little value. I may however record some of them.

			Mate	Inches.
Height from hair to mouth	200	200	118	44
Circumference at band	200	100	550	211
Length of nose	207	266	57	21
" mouth	775	-0.00	47	12
a uyu	200	2775	33	11
left ear	500	1885	52	27
Height of forchead	300	(986)	55	21
Thickness of bronze, about		3100	1.0	- 4

Antique is, most of the hair, both ears, the left eye, the nose, the upper lip. I have indicated in Fig. I what parts are antique. Generally speaking, the right side of the face, and the lower lip, the chin and the neck are modern. The head came from the second portion of the Forman Collection, which at the sale, unlike the first portion, was very indifferently catalogued. It consisted of nine bronze fragments, fastened to a background of plaster. The thickness of the bronze was about § of an inch. The fragments were reset on a stone core by Mr. F. Bowcher, and the missing parts replaced in beeswax by him, under the direction of Mr. E. P. Warren and Mr. J. Marshall Mr. Bowcher had specially before him a cast of the Diadumenus head of Dresden (below, Fig. 3). Whence the fragments originally came cannot be ascertained: it is probable that they may have come from some important exercation in Greece, as they could easily have been concealed by workmen.

The restoration is very successful; and as it is carried out in wax only.

new parts can never be mistaken for old.

The head represents, in life size, a boy who was no doubt a victor in one of the great athletic festivals of Greece. As the ears are undamaged, he was probably not a boxer or paneratiast; perhaps a runner or pentiathles. He is represented as binding his hair with the fillet of victory. This



Fig. 1, -Bestoner one or Brosze Hear.

restoration is certain in view of the character of the head-band and the likeness to other Diadamenus heads. Mr. Bowcher, in his restoration, has taken this view, and hus carried the fillet further; but of course this restoration furnishes no evidence. The eyes, as is usual in bronze statues, were filled in in paste. The secret of the charm which clings to the head, and which every one who examines it seems to feel, is the extremely pleasing and delicate character of the curls, the eye and the car. The process by which it was produced is beyond doubt that known as the circ perduc process. The wax model was enclosed both within and without by moulds of terra cotta or plaster; the wax was then melted out and bronze poured in in its place; after which the moulds were removed. As Mr. Bowcher has been able exactly to imitate in wax the lines of the hair, the eye and so forth, in his restoration we need not suppose that much sugraving of the surface after the casting was necessary, but the whole was gone over with the tool. The casting of the almost detached curls on the forehead must have been difficult.

But no doubt the most striking feature of the head is the head-band, which is adorned with a line of palmettes, like the head-band of Hera, on the coins of Elis, Cnossos and Arges. The device was inlaid in silver, but the silver has disappeared, except at a few points. The pattern was traced by an engraving tool; and it can be clearly traced, because the silver saved from oxidation the bronze under it, while the rest of the bronze surface suffered from decay. The nearest parallel to this decoration is offered by that of the Delphie Charioteer; but the parallel is not close. The Charioteen's fillet is adorned with a macander-pattern, deeply cut. The bronze head at Munich, to be later mentioned, also has had inlays of silver in the fillet.

The curls by the ears and on the temples are like those of the Delphie Charioteer in the same places, curling boldly, almost detached, and reminding us of a time when such curls were made separately of bronze and

soldered on

Few bronze statues and life-size heads of the fifth century have come down to us. The works with which our head may best be compared are the well known Idolino of Florence, and the beautiful boy's head of the Louvre from Beneventum. Both of these are Greek originals, and both have justly won great admiration. Yet if we compare the new head with them, point by point, we shall find that it greatly surpasses them. Let us consider some of the details.

The upper cyclid overlaps the lower at the outer corner of the cyc.

This custom of representation was coming in in the middle of the fifth century; after which it is usual. But as our bronze was broken across the

eye, the putting together of the two lids is somewhat arbitrary.

The nose is short, and the end of it rounded. One might suppose that it had been somewhat forced out of shape, but that it is like other noses of the mid-fifth century: the small and narrow nostrils, forming a strong angle one with another, closely resemble those of the Delphic Charioteer. The upper lip is notably short.

The ears are carefully formed: the cartilage just before the opening

^{*} Compute P. A. Gardner, Handbook of Collegeon, Hist. de la Sculpt. pr., vol. it. Greek Sculpture, ed. 2, p. 25.
* Frontispiese.

is decidedly prominent: this is not the case in the Louvre head, and the cartilage of the Idolino is notably flat; in the Nelson head, which is in character nearer to bronze than other heads of the class, we have the same prominence of cartilage. Modern scientific art-criticism attaches, as is well-known, especial importance to the form of the ear in painting and sculpture, as a characteristic trait of the artist.

The upper lip has a marked ridge; no doubt the red of the lip was

plated with silver or gold.



Fig. 2.—Tor or HEAD

A noted feature of the hair is its arrangement in carled locks, arranged in a circle about a point on the top of the back of the head (Fig. 3). The nearest circle of curls is something like a star-fish in form. Although in case of our head this nearest circle is partly restored, yet enough survives to show the arrangement in the restoration to be correct. The part restored is darker in colour.

I have tried to compare various fifth century heads with our bronze in this respect. The comparison was not easy, because it has not been the custom to represent in illustrations the tops of heads. I had therefore to trust to casts, the number of which was limited.

The star-fish arrangement of hair, if I may so call it for brevity, appears in radimentary form on the head of the bronze charioteer of Delphi, although there the relief is very low, and the curls are rather engraved than standing out. It is also discernible in the head of the so-called Heroic King' at Munich, whom I believe to be Themistocles. It is fully developed and dominant, not only in the case of the two above-mentioned



Pro- E-Margue Hear at Durapes.

bronzes, but in the Cassel head of the Diadumenus, and the Vaison statue of that type, in the Nelson athlete head, the boy athlete of Dresden, and other heads of Polycleitan type; but in marble statues of the class, the hair is seldom carefully copied; thus in the heads of the Farnese Diadumenus and that from Delos, one cannot trace the arrangement of the hair quite satisfactorily. In fact the tracking of a technical detail of this kind from

^{*} Corolla Numismatico, p. 100,

¹ J.H.S. 1808, Pt. XI.

^{*} Furtwangler, Masterpures, p. 266.

figure to figure soon shows one how careless and untrustworthy are the

copies of fine Greek originals made for the Roman market.

Certainly the whole way of representing the hair, which is fairly homogeneous in the whole class of fifth century works of which I have spoken, is entirely changed in the statues of the great artists of the fourth century, both Attie and Argive. In such statues as the Hermes of Praxiteles the Eubuleus, the Agias, the bronze statues of men from Anti-Cythera and Ephesus, the hair appears as separate looks standing out from the head, not as strands lying in relief on the surface of the head.

There exists a considerable series of works in marble which in the arrangement of the hair and in the head-band so closely resemble our head that we must clearly assign it to the same group. The best of these are a Diadumenus head in Dresden* (Fig. 3) which is of very detailed and accurate work, and one in the British Museum; less well preserved. Another head, of the same class but less carefully finished, is that in Cassel. Furnwangler mentions other inferior beads of the same class. They all repeat in assentials the head of the statue from Vaison, which has long been regarded as a Roman copy, though a poor one of the Diadumenus of Polycleitus. This gives us a fixed point from which to start; and establishes a probability that our head is in type Polycleitan.

That this arrangement of the bair is peculiar to to the Polycleitan group, I am not in a position to say. But so far as I have been able to observe, it does not occur in statues distinctly Artic, such as the boy's heads in the Acropolis Museum Nos 689 and 698 of Dickins' Catalogue. Both of these however are decidedly earlier than the new head. Nor does it exactly occur in the Massimi head of Myron's Discobolus, nor in the very beautiful boy's head in bronze at Munich's which is accepted as a fifth century original, though of uncertain school; and which dates from the latter

part of that century.

11.

It is an interesting study in archaeological method to trace from decade to decade the gradual discovery of the works of the Polycleitan school. The discovery began with the identification by Friederichs in a figure of heroic size from Pompeii, now at Naples, representing a sturdy youth a Roman copy of the Doryphorus or spear-bearer of Polycleitus mentioned by Pliny. Soon afterwards the Diadumenos of Polycleitus, again mentioned by Pliny, a youth binding his head with the fillet of victory, was also identified in the figure from Vaison, the attitude and bodily forms of which are almost

Furtwangler, Musterpieces, Pls. X. XI., 1895, Pls. XI. XII.
 p. 240.
 Cat. of Glyptothek, No. 457; compared Cat. Br. Mus. No. 2729; Revue Archiol. Hansar in Rom. Mittheil, z. 103.

identical with those of the Naples Doryphorus. A replica of this figure, of Hellenistic work, has come to light at Delea.

A careful study of some of the bases of statues still extant at Olympia. and bearing on the top the marks of the feet of the figures upon them, has enabled Professor Furtwangler to go a step further. These marks determine the attitude of the statue: Furtwangler found in our Museums several figures whose attitudes corresponded; and as their heads were of the type of the Doryphorus head, he identified them as Roman copies of the Olympia figures, or at all events as kindred to them. These copies represent in some cases victorious boy athletes, and about some of them there is an undoubted charm, especially about such statues as the Dresden, the Barracco and the Westmacott figures.9 Plato tells us of the young Theaetetus that he was not beautiful in feature, but he was brave, intelligent and modest, and earnest in the performance of duty. In the Clouds of Aristophanes we read of a class of young men who are models of allow, and in all things opposite to the forward and flashy youths of fashion. Such are the youths represented by Polycleitus, only that their outward form corresponds better than in the case of Theaetetus to the beauty of the soul within.

An anatomist will hold that the development of the bodies of those youths is far too mature for their age; but we must remember that under the sun of Greece and in the constant exercises of the palaestra the male body would develop at a far earlier time of life than in our colder climate and under our more sedentary habits. The body of a Greek boy was not white, but red, through exposure to the air, and far nearer to the simplicity

of primitive man.

The identification of these youths, scattered through the museums of Europe, has tended greatly to mise our appreciation of the master. So long as we had only the Roman copies of the Doryphorus and Diademenus to go by, it was not easy to make a modern eye, at all events, satisfied as to his artistic supremacy. We felt these figures to be heavy and somewhat dull; and it was very probably in view of them that Pliny repeats the criticism, no doubt borrowed from some Greek authority, that the athletes of Polycleitus were too square made and too monotonous in type. In the Roman copies they lose the charm of exquisite finish of detail which the originals doubtless possessed, and the Idolino in particular suggests that the solidity of the two canonic figures was by no means an invariable character of Polycleitan athletes.

But Furtwangler did not stop at that point; he went on, without adequate data, to fix the dates of the Polycleitan statues of athletes; and in so doing failed. He assigned the statue of the athlete Cyniscus the basis of which was found at Olympia to s.c. 440, and the statue of Pythocles, of which also the basis was found, to s.c. 430. But we now have unimpeachable authority, in the papyrus published by Grenfell and Hunt, and commented by Robert, as to the dates of the victories of these two

^{*} Partwingler, Masterpieces, pp. 250-200.

¹⁵ Robert in Herman, 1900, p. 141.

athletes, on which occasions, no doubt, their statues were set up. The dates in the papyrus are, for Cyniscus B.c. 460, for Pythocles 452. Furt-wangier's dating is thus upset; and the *floruit* of Polycleitus must be thrown back.

We must not however overlook certain difficulties which beset the attribution of our head to the Polyeleitan school. It has long ago been observed that the head of the Diadumenus generally given to Polycleitus is of quite a different type from the head of the Doryphorus of the same artist. The Doryphorus head is deep from back to front, flat on the top, square in profile. This has been regarded as the normal head of the school; and the statues of boy athletes and the Idolino have mainly on the ground of having heads of this type been given to the school of Argos. But the head of the Diadumenus is notably of another character, much more rounded and While the hodies and attitudes of the Doryphorus and Diadumenus are searcely to be distinguished, the heads are far apart; and it has been recognised that the Diadumenus head is much nearer to the Attic type. Archaeologists such as Fartwangler have accounted for this by supposing that in later life Polycleitus came more under the influence of the great contemporary Attic schools of Myron and Pheidias. The explanation is scarcely quite satisfactory; but it is hard to suggest a better.

In fact there is another type of Diadumenus which is often regarded as Attic. This is the Farnese Diadumenus of the British Museum, which differs from the Vaison figure in pose. The Vaison figure is moving forward, in the act of transferring his weight from one foot to the other: the Farnese figure is standing in a stable position, with feet flat on the ground. The heads of the two figures do not greatly differ; and it has been noted by archaeologists that these heads are both of the Attic type, soft and rounded, and not of the severor and squarer Dorian type, to be found in statues of

the Doryphorus.

In one point our head agrees more closely with the Farnese than with the Vaison type. The fillet on it is already knotted at the back: this is clear in our original, though part of the fillet is restored. After tying the knot, the boy is still holding in his hands the two ends of the fillet. The Vaison athlete is only preparing to tie the knot. But when we look at features, there is no likeness between the Farnese head and ours. Eye and ear are markedly different. And the hair of the Farnese head being very superficially rendered, and the nose restored, it presents in these points no likeness to our head. We find indeed a contrast rather than a parallel.

Brunn regarded the Vaison and the Farnese Duadamenus as both Polycleitan. Most archaeologists recognise a distinction regarding the Vaison type as Polycleitan, the Farnese type as Attic: and a parallel to the standing attitude of the Farnese figure has been found among the youths on the Parthenon frieze. It has also been noticed, with justice, that a firmly standing attitude is far more appropriate to the action of binding one's hair with a fillet than is the walking attitude of the Vaison figure; whence some archaeologists have been disposed to think that the type originated in the

Attic school of Pheidias,11 and was copied in Arges, being transferred to a less satisfactory pose which we know from the copies of the Doryphorus

to have been Polycleitan.

I do not think that this criticism is at all conclusive. The Farnese statue is a very poor work, and not to be trusted for the reproduction of details. The attitude occurs not only in the Parthenon frieze, but in works of decidedly Polycleitan character, such as the Idolino; and the head, though of soft and rounded type, is not more soft and rounded than the head of the Vaison and Delos statues. It would be absurd to suppose that so great and so prolific a sculptor as Polycleitus would confine himself to one attitude and one type of head. I am therefore disposed to revert to the view of Brunn, and to regard the two types as two variants of Polyeleitan originals. If, as Furtwangler maintains, Polycleitus could copy an Attic type for his heads, he might just as well copy it for a figure in the Farnese attitude as for a figure in the Vaison attitude.

Some of my friends have arged me to avoid annecessary modesty by boldly claiming our head as belonging to the original Diadumenus mentioned by Pliny. To this claim, however, there are objections, which I think fatal. If the Vaison and Delcs statues are evidence, the Polycleitan Diadumenus was a fully developed young man, not a boy; and he was on the heroic scale, larger than life. Pliny speaks of the Polycleitan figure as molliter juvenis. and the term juvenis does not suit our head. We must be content therefore, to call our head a work of the school of Polycleitus, though it may quite possibly be part of one of the many Polycleitan statues of boy

Thus taken by itself, our head would be regarded as of Attic type, with rounded outline and brachycephalic. Yet it probably belonged to a statue

of the Polycleitan class.

In any case its delicacy and beauty enable us to appreciate more fully than before the technical perfection reached by the great bronzecasters of Greece in the middle of the fifth century. Hitherto we have found it somewhat difficult to understand the immense reputation which the athlete statues of Polycleitus enjoyed in Greece. But we must remember that a copy in marble necessarily loses most of the character of a bronze original. The fine and delicate treatment of the hair, the car, the evelids, cannot be reproduced in the softer and coarser material.

We can now well understand how a full length figure produced by the very fine and delicate process called the 'lost wax' process, by such an artist as modelled in wax our new head, would be a work of the most remarkable and fasainating beauty. The Greeks appreciated the points of a body in a way which we do not readily understand. Plato observes that when a painter has to represent a landscape, mountain, wood or river, he is content merely to make suggestions. 'Since,' he observes, 12 ' we have no

⁴ Critics, beginning. Quoted in my Prin-" It has even been suggested that the Farmus figure is a copy of an Anadamenus captes of Greek Art, p. 20, by Pheidian, set up at Olympia.

accurate knowledge of such things, we do not closely examine or criticise the paintings; we are content in such a case with a vague and delusive rendering. But when the artist tries to represent our bodies, we keenly perceive the defects, and, in virtue of our constant close observation, become severe critics of one who does not render in all respects an accurate likeness.' Plato is of course not merely speaking of the face of a man, but of his whole body; and if we remember this we shall realise how contrary the Greek point of view is to that usual in modern days. We look very carefully at all the features of nature; but of our own bodies we know but little; we are generally disposed to be ashamed of them. Of the points of beauty and ugliness in dogs and horses we have a far more definite notion than in the case of human beings. Of course we shall never go back altogether to the Greek point of view; yet it would be no bad thing if we could learn in the school of Polycleitus to appreciate more fully the beauty of the well trained male body.

P. GARDNER.

A VASE FRAGMENT FROM ORVIETO.

PERHAPS an apology is due to the readers of the Journal of Hellenic Studies for venturing to call their attention to so fragmentary a vase as the one depicted in the accompanying illustrations, Figs. 1, 2; the excuse must be that the design offers certain points of interest which make one regret its mutilated state.

All that are preserved are the stem and part of the interior design, cm. 5.5 x 4.8, of a r.-f. kylix which was purchased at Orvieto and purports



Pio, 1.

to have been found there. The clay is fine and well worked, the black varnish of the stem of a brilliant lustre. Of the exterior design there remains only a small section of the ring indicating the ground, and one long, slender foot.

The scene of the interior shows a seated man with his right leg raised and left arm extended; over this arm hangs a mantle, his sole drapery, drawn with broad folds and extremely parsimoniously sown with dots. The bold thick relief line of the limbs is vigorously rendered; the hair on the chest and inner markings of the muscles are of golden brown thinned varnish. In the field is a kappa and the rounded and of some object,

both in purplic

Although little remains there is nevertheless enough to enable one to form some estimate of the place to which this fragment belongs; yet since the freedom and mastery of technique exclude the earlier artists, it must necessarily be assigned to the cycle of the latest masters of the severe style.

The nearest affinities are vases in 'the style of Brygos': the wide folds, sparing use of dots, and naturalistic ends of drapery may frequently be instanced. Still more distinctive is the delineation of the collar-bone, not rendered after the manner of Douris by two strokes with hook-shaped



Vis. 0

ends," nor in the very individual manner of Kleophrades," but by a simple Y-shaped line. The nipple is indicated by a slight stroke, but more characteristic is the hair on the chest, which can be closely paralleled by the Zens of the Boston kantharos, the Aristokrates of the British Museum kylix, the bearded man of the Würzburg vase, etc. Another mark of identification is the 'Brygan' form of eye, described by Perrot as a triangle isoscèle.

⁵ G. Porrot, Hist, de l'Art, z. 1914, p. 306 and Fig. 201, No. 25.

Cf. Zens of the Beston Kanthares (F. R. Tarbell, The Decemnal Public, for the Univ. of Chicago), vi. 1902, Ph. II., 1II.)

² Cf. E. Pottler, Douris, Figs. 6, 10, 11, and 21.

^{*} J. D. Benzley, J.H.S. Sax, 1910, p. 42, Fig. 1.

^{*} Hartwig, Mersterschalen, Pl. 34. Furtwangler-Rainhhold, Gerich Fasenmalersi, Pl. 30. Cf. also the sound man of the Vienna skyphos, F.-R. Pl. 84.

The fragments at Stuttgart in Hauser's possession were found at Orvieto, as also the vase in Vienna, the fragments in Hartwig's own collection and the kylix in the Faina collection, where there is a strong resemblance between the nude man of the exterior design and the man shown on our fragment in the rendering of the collar-bone, hair on chest, nipples and type of face.

A very close parallel is the broken sherd from the Acropolis showing an agitated man leaning on a staff, but clasping his head with his right hand. In this case, also, his mantle covers one arm only, and the bodily forms and facial type are nearly akin to our subject. Genre scenes, indeed, often form the theme of the interior design of vases in the style of Brygos.

Although we lack conclusive evidence which would justify us in definitely attributing this work to Brygos, nevertheless the striking resemblance between its style and those of authenticated vases by the master shows that if not from his own workshop it was executed at a contemporary date and under his influence.

E. DOUGLAS VAN BUREN.

ROME, May, 1918.

^{*} Hartwig, op. cit. p. 318, Fig. 42, and "Hartwig, o

P. 340.
* Hartwig, op. cst. p. 328. A.-E. M. 1893, ic
pp. 120 ff.

Harrwig, op. cit. Pf. 36, 1-3.
 Klein, Euphrosens, 2nd ed., p. 52, Fig. in

text.

THREE RED FIGURED CUPS.

[PLATE IL]

1

The vase-painting published after a photograph in Pl. II. 1, and after a drawing in Fig. 1, has already been reproduced on p. 86 of my Vases in America; but it lost so much in reproduction that I considered it my duty to republish it as soon as possible in order to correct the unsatisfactory impression which the previous publication must have made; the editors of the Hellenic Journal have kindly offered me these pages for the purpose.

The painting forms the internal decoration of a fragmentary red-figured cup found at Cervetri and now in the possession of Mr. Edward Warren at Lewes. The stem and foot of the cup are lost, but the stem at any rate

was of the normal type. The exterior was undecorated,

A naked woman is moving quickly towards a column-krater, wreathed with ivy, which stands on the ground in front of her. In her left hand she holds a kotyle her right arm was extended behind her downwards, and her right hand may have held another object, such as a cup or a jug. Part of the left shin is preserved: the left leg evidently passed behind the right and was strongly flexed at the knee. The hair is cut short, but a fringe of ringlets runs round the lower edge; the outer edge, which is crenate, is separated from the black background by a reserved line. A red line, gently curving, and turned up at the forehead, represents a fillet. The whole contour of the figure and of the vessels is lined in with relief-lines against the background. Yellow thinned varnish is used for the transverse creases at the waist, and for the necklace and its dotted pendant, which are visible in the drawing, though not in the photograph. Bound the figure, the fragmentary inscription - - |OS KALO[s], the two last letters being written on the krater. On the kotyle, AORIS. Both inscriptions are in red. The alpha is open as the top: the diagonal strokes of the kappa do not touch the upright: the rho has a short tail: the delta is of the normal form. The line of the ivy wreath is brown, the leaves black. The picture is surrounded by a band of stopped meander pattern.

At first sight, the inscription AORIS might seem to give the artist's name; the cup would be the work of the vase-painter Douris. But the style

is not that of Douris, either in his earlier or in his later, longer, and better-known period: those who are acquainted with the work of the Panaitios painter will recognise, in our cup, the hand of that excellent artist . (see Vases in America, pp. 82-87).

The word ACRIS is not followed by eypapaer, and there is therefore no proof that it was intended as an artist's signature. Mr. Warren suggests to me that it characterises, not our cup itself, but the ketyle held by the woman, as a work of Douris: a complimentary, almost dedicatory, inscription like the



Pin. L.-R.-P. Cur by Collinsion of Mr. Enward Warners.

(O) TENΔ| EVOVM(ΔE) on the hydras by Phintias in Munich*(F.R. Pl. 71; Hoppin, Euthymides and his Fellows, Pl. 28, above). Other explanations might be given; but this seems to me as attractive as any. It is possible that the same interpretation may apply to the OΔOR! (δ Δοῦρι) on the cup published by Miss Harrison, which was formerly in the Tricoupis collection and is now in the Museum at Athens (J.H.S. X. Pl. I.). But it is equally possible that the OΔOR! was written by the painter of the cup. The determining factor, in both the Athenian cup and ours, is the style of the drawing.

The fragmentary love-name on our cup need not have been but very likely was, Panaities. The date is between 490 and 480 say, 485. The style seems a trifle more advanced than that of the cup in the British Museum which the Panaities painter decorated for Euphronies (E 44: F.R. Pl. 23).

IL

The vases which bear the signature of Douris may be divided into three classes. The first class consists of the unpublished cup with the love-name Chairestrates (Louvre G 122); the Vienna arming cup, painted for Python (F.R. Pl. 53); the Boston Chairestrates cup from Corneto (Hartwig, Meisterschulen, Pl 21), and the two fragmentary cups in Berlin (2283 and 2284 A.Z. 1883. Pll. 1-2), one of which hears the love-name Panaitios and the manufacturer's name Kleophrades, the other the love-name Chairestrates and the artist's signature. The second class consists of one vase, the Berlin cup 2286 (A.Z. 1883, Pl. 4; A. new, Jahrbuch, 31, Pl. 2); the third, of all the rest. The first and earliest group is characterised, among other things, by the rendering of the collarbones and of the hip-furrow; the lines of the former stop at the pit of the neck and have no books at the gnds; the latter appears as a single gentle curve. In the third series the collarbone lines end in books, and the hip-furrow is composed of two quite distinct curves. In the third series, earlier and later can be distinguished. and chronological groups can be formed, as Buschor has shown in his excellent article 'Nene Duris-Gefasse' in Jahrbuch, 31, pp. 74-95; but the whole group is remarkably homogeneous.

There remains the second group, the Berlin symposion cap. Buschor (loc. cit. p. 89) classes it with four other signed caps which I should consider to be typical examples of my third group, and with which it does not seem to me to have much in common. Again, I cannot put it in my first group, for one reason, because its style is obviously later; nor between the first and the third, because the transition from the Berlin Panaities and Chairestrates caps (A.Z. 1883, Pil. 1-2) to the vases of the third group seems to be easy, straightforward, and long-prepared, whereas the Berlin symposion cap would send the arisist on a circuitous route. To put it after the third group would not occur to anyone; the latest work of Douris is to be found, as Buscher shows, in such unsigned vases as the Boston thisses cap (Hartwig, Pil. 74-75; see also Vases in America, p. 99).

The Berlin symposion cup does not stand alone: Moiseeff has already pointed out another work of the same style, the pelike fragments in the collection of the Russian Archaeological Society at Petrograd (Zapiski Russkago Arkheologicheskago Obshchestva. 1913, Pl. 2, 2, Jahrbuch, 31, pp. 76-77). Buscher and Hauser added three other vases a stamnos and two Nolan amphorae (Jahrbuch, 31, pp. 75 and 93).

Working independently of these scholars, I had reached a conclusion which tallies, up to a certain point, with Buschor's. I had not seen his article when I compiled and sent to press the list of vases by 'the painter of the Louve Triptolemos stamnos' which appears in Vases in America, p. 98, note I. This list includes, as numbers 1, 4, 5, 7, and 11, the five vases grouped together by Buschor, and it is gratifying to find that we are so far at one. A group of vases in what is unmistakably the same style, and one of them signed by Douris: Buschor drew the natural inference that all five were by Douris; I, owing to the extreme difficulty of fitting the symposion cup into the work of Douris detached it from his work and conjectured the signature to be an ancient forgery. That Buschor's theory is at first sight the more plausible I do not deny; but that mine has great advantages I hope, at some later date, when my material is collected, to be able to show.

III.

Klein's list of vases signed by Douris numbers twenty-four (Meistersignaturen, pp. 150-161); the most recent list, that compiled by Frucht (Die signisrten Gefüsse des Duris, Munich, 1914), gives thirty-four : deduct the Berlin symposion cup, and add the cup in the Kunstgewerbe Museum at Dresden A a man leaning on his stick, holding out a purse, with Apply eypadores and Xasperrparos kakes; B, men and youths), and the total remains the same. It is generally recognised that we have a great many Donris vases besides the thirty-four signed ones. Hartwig, in his Moisterscholen (pp. 200-230 and 583-627), attributed thirty-five unsigned vases to Douris, the majority of them for the first time; to which we must add the fragment in the Kopf collection which he published some years later (Festschrift für Beunderf, p. 86). Of these I should admit all but five: numbers 32, 36, 38, 43, and 59 in the list on p. 686 of Meisterschulen. This gives a total of sixty-five Douris vases. Van Brantoghem assigned to Douris the lekythos with the love-name Chairestrates which was once in his collection and is now in Boston: Pottier the two fragmentary cups G 126 bis and G 125 in the Louvre (Catalogue des wases du Louvre, pp. 967 and 966); Hoppin the thiases cup in his possession: D. M. Robinson his late symposion cup. De Ridder attributed to the workshop of Douris the cup 540 in the Cabinot des Médailles (Vasses du Cabinet des Médailles, Pl. 21, and pp. 408-410 and 379); the Boston cup with a woman at a layer (97, 369) was pronounced to be in the style of Douris by the authorities of the Boston Museum. Buschor showed, in the article already mentioned, that a number of unsigned vases collected by Hartwig (Meisterschalen, p. 657), but attributed by him to an imitator of Douris whom he christened the Master with the Spray, were really late works of Douris; the same view was tentatively expressed in Visses in America (p. 99). Hartwig's Spray group consists of nine numbers (Meisterschalen, p. 691): number I, the astragalos in the Villa Giulia (Bollettino d'Arte, 10, pp. 345 and 346), is to be cut out it is by the Syriskos painter, whose works are given in Vases in America, pp. 64-65: the rest may remain.

Eleven new attributions were made in Vases in America (pp. 97-99), and the list may be increased. The following cups seem to me the work of Douris.

Lewes, Mr. E. P. Warren, fragment: A, male pursuing woman; all that

is preserved of B is a number of legs.

Palermo, from Chiusi. A poor reproduction in Inghirami, Musso Chiusino, Pil. 109-111: A, seated man; B, athletes and men. This cup is especially interesting because it is in the same style as the signed athlete cup in London (B.M. E. 39: W.V. 8, 1: A, Murray, Designs, No. 24: B, J.H.S. XX. Pl. 12). The border in the interior is a simple line.

Florence, from Chiusi: A, man reclining holding an oinochoe: B, symposion.

The border on A is of the most usual Dourian type, as in Murray.

Designs, Pl. 9.

Louvre, S. 1327, fragment: A, a youth wearing a himation, and part of another figure. Hardly anything remains of B.

Oxford, fragment lent to the Ashmolean Museum by Mr. Stuart Jones: from Orvieto: B, figures wearing himatia.

Adria, B 500, from Adria, fragment: A, a man seated holding a lyre, and a youth; B, figures in himatin.

Wirzburg, fragment; B, men and youths.

Würzburg: A symposion: a man reclining and a woman standing in front of him holding oinochoe and cup. kalos, the letters very close together. Late.

Cornete, Count Bruschi: from Cornete: A, man and youth standing facing;
B, men and youths. The border on A is an ordinary meander by twos

with Dourian cross-squares. Late.

Orvieto, Count Faina, 60: from Orvieto, fragmentary: A, symposion; man and woman on a couch. KALOS, Late. The border on A is of the type shown in Murray, Designs, number 34.

The reverse of the Landon cup (B.M. E 60) is an imitation of Douris by a weaker artist.

That Douris painted other vases besides cups is shown by the signed kantharos in Brussels and the signed psykter in the British Museum. A lekythos in Boston has been assigned to him, as stated above, by Van Branteghem; and another lekythos is attributed to him in Vases in America, p. 98. The case of the lekythoi which bear the word ACRIS without expanders is a difficult one; they may or may not be by Douris Hartwig assigned to him a fine fragment of a pyxis in the British Museum (E 807; Meisterschulen, p. 625); there is an excellent pyxis by him with Menelacs pursuing Helen in Mannheim. Two lion's head rhyta, one in the British Museum (E 706; Walters, History of Ancient Pottery, 1, Pl. 46, 5; a woman pursuing a youth), and the other in the Louvre (kames), are both decorated by Douris. Finally, a fragmentary cup-kotyle in Bologna (470; Pellegrini, Vase delle Necropoli Febrines, p. 213) is placed by

Pellegrini in the school of Donris and is no doubt one of the artist's later works. I have not seen the neck-amphora (with double handles?) in the Stroganoff collection (Compte Rendu, 1874, Pl. 7, above), and do not add it to the list; but I think it very likely that Hartwig is right in connecting it with Douris (Meisterschalen, pp. 625-626, note).

The vases assignable to Douris thus number a hundred and five.

IV

Pl. II. 2 gives the design on the interior of a fragmentary red-figured cup in the University Museum at Philadelphia. For the photograph, and for permission to publish it. I am indebted to Miss Edith Hall. The composition is much the same as in the larger, finer, and slightly later cup which has been assigned above to the Panaitios painter. The artist is the Colmar painter, so named after a cup in the Schongauer Museum (Arch. Anz. 1904, p. 53), a list of his works has been given elsewhere (Vascs in America, pp. 81-82). Yellow lines for the inner marking of the body between chest and hip, but none on legs or arms: a brown line on the cup which the youth holds in his left hand; indicating the offset lip. The wreath on the krater black: the navel a black are. On the reverse a symposion, with a reserved line below: one figure and part of another remain: the figure preserved is a youth playing at cottabos.

A cup by this painter in Harrow (number 6 in my list) has a similar subject on the interior, a naked youth running with a cup in his left hand and plunging his right hand, which is to be thought of as holding

an oinochoe, into a calyx-krater which stands before him.

Pl. II. 3 is the internal design of a cup by the Colmar painter in the Hofmuseum at Vienna (number 8 in my list). The photograph, with permission to reproduce it, was kindly sent me some years ago by Dr. Julius Banks. The subject is a reclining youth playing at cottabos. The photograph fails to reproduce the brown inner marking below the breast, and the brown intermediate lines on the drapery, half-way between each pair of strongly curved black lines. On the side of the couch, in brown, HOPA(s) a brown line on the cup held in the left hand. On the reverse, two silens and a macmad and two silens and a mule, with a reserved line below: HOPA(s) over each scene, and the same, retrograde, in front of the youth's face on the obverse.

J. D. BEAZLEY.

QUEEN DYNAMIS OF BOSPORUS!

[PLATES III., IV.]

I.

In 1898 there were discovered in the rains of an ancient building (maybe a temple) near Novorossijsk several objects made of bronze (a candelabrum the remnants of a tripod, the handle of a vessel probably some consecrated plate), and together with them was found a woman's bust in bronze.

The style of the candelabrum reminds one closely of the candelabrum discovered in the vault of Mme. Zaitzeva in Kertch, and it dates consequently from the age of Augustus (see Rostovtzeff, Aucient Decorative Painting in the South of Russia, St. Petersburg, 1914, p. 207 f. Pl. LX.). The handle of a vessel, in all its details, is similar to handles of vessels found at Bori. The whole treasure found at Bori was published by E. M. Pridik (Materials for the Archaeology of Russia, No. 34), and it dates from about the beginning of the Christian era.

To the same time also belongs, as we shall see, the most interesting amongst the objects discovered at Novorossijsk: the bast of a woman (Pl. HI.). This bust has a hollow rod affixed to it for the purpose of mounting the bust on a pedestal. Its height, the rod included, is 26 cm., the length of the rod, 2 cm., the width at the shoulders, 16 cm. The workmanship is excellent. The woman represented is not young. Her hair, waved in front and combed over the cars, is tied at the back in a long knot; from under this knot tightly curled locks fall on the shoulders to the right and left and down the back. The pupil and the iris are indicated by engraved lines. Small round earrings adom the cars.

The most characteristic feature of the bust is its headgear, shaped like a Phrygian cap or $\tau i \hat{a} \rho a \hat{o} \rho \theta \hat{\phi}$. The tiara may have been made of leather, or felt, or metal. The whole surface of this headgear is covered with incrusted silver stars or suns, with eight rays to each. In the intervals four-leaved

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here with considerable changes based upon sew materials not available to me at the time of the first publication.

copper resottes are incrusted, each leaf shaped like a heart. Apparently a diadem encircles the tiara and is tied up at the back by a wreath.

First of all, the bust undoubtedly represents a mortal woman and not a goddess: a broad, fleshy face, a round chin, tightly pressed lips, a large, straight nose, thin eyebrows, a fashionable conflure show clearly that this is a portrait of an elderly woman, slightly idealised perhaps, but with a good general likeness and a strong individuality.

The time to which the bust belongs can be indicated quite accurately, leaving no place for doubt. Apart from the excellent, although somewhat heavy, workmanship, a definite indication is given by the fashion of the hairdressing. This hairdressing is characteristic of one period only, about the beginning of the Christian cra; the epoch of Livia, Antonia, and both Agrippinas (senior and junior). These conditions admitted, and the suggested date being unquestionable, the headgear of the bust and its ornamentation acquire a special importance.

The headgear, ornamented with some or stars (\$\pi\lambda\epsilon\$, as Julianus calls them, \$Or\$ v. 165 B, when indicating that Cybele made a present of it to Attis), is found on two series of monuments of the Hellematic period.\(^1\)

The first series opens about the second century 0.0 with the coins of Pessinus, on which the heads of Cybele and Attis are reproduced together, the latter with a leathern cap covered with stars and with the symbols of Cybele on the reverse (see Imhoof-Blumer, \$Griech, M\vec{u}_{12}en, 226 (750), 748 f., Taf XIII, 7-9). To these are related undoubtedly all the later reproductions of Attis and men with the \$\pi\lambda\epsilon\$, \$\vec{u}_{12}en\vec{v}_{12}en\vec{v}_{13}en\vec{v}_

More instructive is the other series of monuments, more closely related to our bust. This series is strictly confined to the limits of the Pontus and the Pontus kingdom. It begins in a characteristic manner with the coins of Queen Amastris. The foundress of the city of Amastris on the Pontus, the daughter of Oxathrus, brother of Darius Codomannus, for a long time she ruled over Heracles. On her coins and on the coins of the city of Amastris of her time (see Babelon-Reinach, Rec. gén i 135 f., Nos. 1-9, Pl. XVIII 1-9) we find on the obverse the representation of the head of a youth wearing a leathern cup of the so-called Phrygian shape, with a laurel wreath

^{**} Later nonuments in manuscrively large numbers are compared by Droxley, John. John

them. A best of the Moon-god or Attis, emtemporary with our bast and reproduced on one of the Hildenheim silver vessels (see Parnice Winter, Dec Hildenheim: Silberfami, Borlin, 1901, Taf. V.), a pendant to the vessel with the heat of Cybele, has quite another kind of stars, differing in the technique of their workmanship.

I may remark, by the way, that the sun and the moon appear also on the coins of the successors of Mithradates, especially on the gold stater of Dynamis (Head, Hist. Num.² p. 504), a granddaughter of Mithradates (see Pl. IV. 4) and the sun alone on the coins of Polemon (see Pl. IV. 9), who for some time was the husband of Dynamis (Babelon-Reinach, Rec. 1.1, p. 19, Nos. 17 and 18, Pl. III. 7 and f. I); and, lastly, the sun subjected to the zodiacal sign of the balance on the coins of Pythodoris (Babelon-Reinach, ibid., p. 20, No. 20 bis, Pl. III. 10), and the sun combined with the moon on coins of the son of Dynamis—Mithradates VII. (see Pl. IV. 7).

If, at the same time, we take into consideration that the leathern belines is a characteristic feature also of the above-mentioned second series of coins, i.e. the coins of Mithradates in his youth, and that on a number of coins of Amisus and Chabacta, minted, as Imboof supposes, also by Mithradates, he is represented wearing the helmet of Perseus, which reminds us in nearly all its details of the helmet on our bust (see Babelon-Remach, i. 1, p. 55, No. 32, Pl. VIL 25, and No. 35, Pl. VIII. 27; p. 77, No. 1, Pl. XI, 21; Imboof-Blumer, Num. Zeitschr. 45 (1912), 180, Nos 62-64, Taf. II, 19 and 20), it seems more than probable that the τιάρα ὅρθή, or the helmet in the shape of a tiara, of our bust indicates the sovereign status of the woman represented and the fact that she belonged to the dynasty of Pontus. I must point out also that the rosettes on the helmet may have been suggested by the rosettes of the wreaths encircling the reverse of the coins of Mithradates the Great.

Consequently our bast represents one of the women belonging to the royal family of Pontus, who lived about the time of the begunning of the Christian ers—in no case earlier than that epoch, and not later than the epoch of Agrippina junior—and who stood in very close relation to the kingdom of Bosporus and the territories belonging to it or considered as its dependencies.

All the above-mentioned considerations and hypotheses are most brilliantly confirmed by comparing all the monuments indicated above with the statues and reliefs of the two temples that were built by Antiochus III, of Commagene on the eastern and western terraces of his burnal tunnulus on Nemrud-Dag. This tunnulus strikingly reminds us of the royal tunnuli of the sovereigns of Bosporus on both sides—the European and the Asiatic—of the Cimmerian Bosporus.[‡] I will not repeat here the exemplary commentary of Puchstein on the sculptures of these temples,[‡] of which unfortunately so little use has been made. I may remark only that the gods, especially the Persian gods Mithra and Auramazda, are represented always with the typical $\tau \iota d\rho v$ $\delta \rho \theta \dot{\eta}$, repeating in all its details the tiara of our bust, even the diadem encircling the lower part of it. The diadem of Auramazda (Taf. XXXIX. I) is covered with reproductions of lightning, and the tiara

^{*} See more on this matter in my work, Angust Departure Pointing in the South of Russia, St. Petersburg, 1914, p. 45 f.

See Homann and Postnetein, Reisen in Kleinstein und Nordeyron, Berlin, 1890.

with stars or suns; the tiara of Mithra (Taf. XXXVIII. 2) has two diadems (at the bottom and in the middle), and is surrounded by sun-rays. It is characteristic that an exactly similar tiars, encircled by a diadem at the bottom and covered with circles and rhomboids as worn by the great glarified Persian king, the ancestor of Autiochus, whose figure has been preserved so beautifully, quite beyond comparison with any other statues and reliefs in temples, on the relief reproduced in Taf. XXXVI. 1. Here also, as on our bast and on the relief of Amanazda, the tiara is covered with three rows of suns, typical also in the Commagene sculpture. The same suns adorn his boots and trousers, which are discernible under the ceremonial ediscer in which he is clothed.7

It is characteristic that the suns adorning the ridge opth of great gods and glorified Persian kings play a large part also in the costume of the Commagenian kings. The ornamentation with suns of the armour of Antiochus on a number of reliefs is quite typical (Taf. XXXVIII, 1, 2; XXXIX, 1, 2, etc.).*

I must remark also that the renowned zodiacal lion of Nemrud-Dag, covered with stars or suns, with a prescent under the neck (Tat. XI...), serves, evidently, to explain the crest-a sun and a crescent-on the coins of Mithradates"

After these comparisons there is no doubt left that our bust represents a queen who traced her origin from the Pensian kings, i.e. who belonged at that time to the family of Mithradates, although, perhaps, the hust was not made during her life, but after her death, as seems to be indicated by the place where the bust was discovered and by the idealisation of the queen's features. It is indubitable, too, that the queen had actually ruled, and that she had ruled a long time and alone, considering herself, and being in fact, equal in her sovereign rights to any other king.

All these peculiarities have to be taken into consideration when the question is put; which queen of the family of Mithradates, having ruled over the Bosporus, may be recognised in the features of our bust, which belongs

to about the beginning of the Christian era!

There is not much choice in this case. But it is characteristic that a priori all the women out of whom we can choose could have been represented in a monument such as our bust. I am alluding to Dynamis,

relief; probably they were seen upon a lathern surrass (see L. Pollank, Klassischuntike Goldschmiede arbeiten in Besitze A. I. von Nelidov, Leipzig, 1903, Nos. 492, 493, 494, 499, Tal. XIX.). Similar small gold pieces or squares have been found in a number of bemale of the first centary no. in the south of Russia (see Comptex-erodus de la Commission Impériale Arch. 1888, Atlan, PL 1/33

[&]quot; See on this cellef the excellent remarks of Puchstoin (i. l., p. 299 f.); he speaks of the tiers on p. 200 f. Compare the tiers of Tigranes I, of Armenia, on the sale of which a sum with eight rays is represented between two ragles: Percy Gardner, The Selement Kings of Syren, p. 103 f., and Babelon, Les rois de Sprie, p. 213 L. Pl. XXIX. 8 L

In the collection of Neinfoff there are several decems of gold pieces of divers dimenalone and types with the same ornament in

^{*} See on this Purhatein L. L., p. 329 L.

the wife of Asandres, Scribonius, and Polemon I., daughter of Pharmaces and granddaughter of Mithridates, who, as I shall try to prove, ruled for a long time over the kingdom of Bosporus, the whole of her much agitated life passed on the Bosporus; also to Pythodoris, the wife of Polemon L. whose sojourn in the kingdom of Bosporus figured as a short episode only in her life; to Gepaepyris, the wife of Aspurgos, the stepmother, perhaps, of Mithradates II. (VII.), and in any case the mother of Kotys L, as I shall try to prove below; and, lastly, to Antonia Tryphaena, who came into touch with the Bosporus through her only son, Polemon II. All these women were typical Helfenistic queens, energetic and powerful, all of them either ruled personally or activaly collaborated with their husbands in ruling; or in some instances opposed their husbands and competed with them for sovereign power; therefore any of these women could have been immortalised by a bronze bust representing them with their queenly headgear. But, as we shall see further, the only one who during the whole of her life had been closely linked to the Bosporus was Dynamis, and she alone had the blood of Mithradates flowing in her veins. Therefore, a priori, it seems quite possible that she, precisely, has been immortalised by the bust.

Apart from such a priori considerations, iconographic comparisons are also possible, because the portraits of all the above-mentioned women have been preserved up to our time on their coins.¹⁰

As far as I can see, the only one of the four queens whose features can be likened to the features of our bust is Dynamis. Unfortunately, the portrait on the unique coin of this queen (see Pl. IV. 4) that has been preserved for us is spoiled by a defect in striking precisely in the most characteristic feature, viz. the tip of the nose, but the fleshy, uplifted ohin, the tightly pressed lips, the general shape of the nose, the forehead and the eyes clearly coincide with the bust. I have remarked already that the features of the bust are rather idealised; the portrait on the coin is strictly realistic. Even more characteristic are the similar small round earrings and the four corkscrew-shaped, curled locks falling on the shoulders.

To the portrait on this coin and to the bronze bust are most closely linked the coins of Caesarea and Agrippia which were minted by Dynamis, as I shall try to prove below (see Pl. III. 5 and 6). The head represented on them has nothing in common with Livia, but the features are uncommonly like the features of the portrait on the gold coin of Dynamis and the features of the bronze bust with which we are concerned. The headgear is the typical one of the Scythian queen-priestesses. We easily recognise it

pyris, Burnchkoff, Pl. XXVI. New 93, 94; Minus, Scycheme and Greens, Pl. VII. 7 bee Pl. IV. 10. 11) Kabrstedt, Kilo x (1910), p. 300 f., supposes that the head on the com of Pythadoris is not the head of the queen herself, but the head of Livia, which is quite possible. The coin of Dynamis I caproduce from the majors specimen of Count Uvaroff's collection (see Pl. IV. 4).

¹⁹ The coin of Dynamis has been published by Orieshnikoff, Catalogue of Count Descript Collection, Pt. 11. 471; compare Minns, Scythiass and Greeks, 392, fig. 247; the coins of Pythodoria, see Babeloo Beimoh, Eco. 1. 20, Nos. 18-21; compare further the literature concerning the life and rule of this queen; soins of Antonia Tryphasma, i.e. p. 21. Nos. 22-28 (see Pt. IV. 1); coins of Gepac-

by comparison with the objects discovered in the Scythian royal burials; see my article, "The Hellenic-Scythian Headgear," in the Bulletin de la Commission Archéologique, l. 63 (1917), 69 f.

The portraits of the other above-mentioned queens, in my opinion, have no resemblance whatever to our bust; it is characteristic that Tryphaena and Gepaepyris resemble one another very closely. However, to complete the picture, I consider it indispensable to give here a short description of what is known to us about the four above-named queens, as all the records of their lives in ancient documents and in the newest scientific literature as well, are obscure and very debatable, although in my opinion they may be grouped rationally and explained. This is especially the case as regards the lives of Dynamis and Gepaepyris, who alone have any reasonable claims to be considered as the originals of the bust.

II.

The history of the Bosporus after the death of Mithradates is clear. enough in its principal features, although very insufficiently indicated by some accidental notes in the works of Cassins Dio and Appian, by several inscriptions and by a series of coins rather difficult to understand. The ideas of Mithradates continued to influence some of his successors, both the nearest and the more remote; his name still had authority among many of the tribes which had been ruled by him. His idea of creating a kingdom of Pontus based on the Graeco-Iranian culture, and on an army organised principally out of the comparatively civilised elements of the population of Cappadocia and Pontus, and the kingdom of Bosporus as well, with all the adjoining more or less cultured tribes and peoples, was neither morian nor unrealisable. The struggle of Parthia against Rome and her offensive in the epoch of the triumvirate, i.e. the repetition by the Parthians of the attempt of Mithradates, and the latter attempt as well, had disclosed the powerful forces secreted by the somewhat Hellenised Iranian elements who formed the ruling class of the population in the greater part of the great kingdom of Mithradates, and who played a pre-eminent political and cultural rôle in the life of non-Iranian Caucasus, Cappadocia, and Avmenia. Having assumed to a great extent in the Hellenistic epoch, especially in the second century s.c., a Sarmatian appearance, the kingdom of Bosporus prepared for political organisation a number of the nearest Sarmatian and Seythian tribes; a longextended cultural influence exercised by the Greeks over the Scythians, first from Olbia, then from the Bosporns and Chersonesus, made possible the continuation of the existence of the ancient Scythian power on a more civilised hasis in Crimea, in the kingdom of Skilures and Palakos. To put a finishing touch to this ancient cultural work, to unite all the cultured parts of the Scythian and Sarmatian world, one thing only was needed: a strong personal will a leader closely related in spirit and national feeling to all those elements which were ready for organised cultural life—an Iranian Alexander.

We must at last reject the old point of view that considered the Sarmatian tribes belonging to the foundal kingdom or Bosporus, and the Seythians of the time of Skilinros and Palakos, as barbarians. The burial tumuli of Taman and of the greater part of the country on the river Kuban, of the later Hellenistic times, the poor remnants of the cities of Skilinros and Palakos, though very slightly explored, show clearly that the ruling classes of the population of these territories had outgrown the limits of barbarism and had learned how to create something personal very original and very typical, in the region of material culture. There is no reason to wonder that reminiscences of the great past of Scythia and of the part played in the world's history by the Achaemenids of Persia had prepared for the Achaemenid Mithradates an unusually propitious ground in the political conceptions of those tribes and peoples, who undoubtedly had acquired simultaneously with a material culture the principles of a spiritual culture and some historical knowledge.

At the same time we have to keep in mind the close connexion between Pontus and Cappadocia and the northern shores of the Black Sea in general, and the localities near to the Sea of Azov and the Kuban particularly. This connexion began, as I shall try to prove in another place, in the age of Bronze and continued up to the epoch of the Roman domination (see B.S.A., xxii. (1916–1917; 1917–1918)). It was based on a cultural as well as an ethnical relationship. One must remember that the great invasion of Asia Minor by the Scythians in the seventh century a.c. had left many traces. The Scythians undoubtedly settled down in Pontus, and this explains the presence of an Iranian element among the population of Pontus.

Mithradates was ruined, not by the Sarmatians or the Scythians, who had to form his last great army, but by the Greeks of Phanagoria, Chersonesus, Theodosia, and Panticapanum, to whom at a certain time he had served as a rock of safety to cling to when they were on the point of being submerged by the Scythian and Sarmatian tidal wave. But, just as in Asia Minor, the Greeks in the Crimea very quickly understood that their relation to Rome was closer, and that Rome was more disposed to defend them against and shelter them from the invasion of an Hellenised Iran that

threatened them, not in the military sense alone,

After the death of Mithradates the duality of forces acting in the kingdom influenced the whole history of the Bosporus. The prevailing majority of the population, all the Sarmatian and Scythian tribes included in the kingdom, honoured the memory of Mithradates and were disposed to support his heirs, and the Greeks were ready to submit to any power that would guarantee them the preservation of their nationality and of the remnants of the municipal régime to which they were used.

Rome had to reckon with all those peculiarities of the Bosporus and to keep up a constant watch, foreseeing the possible advent of a new unifier, a new Mithradates. The ruler of the Bosporus had to be sufficiently popular to unify the diverse elements of the population; he had to support the Greek elements in their struggle with the local population, i.e. he had to be an experienced politician and a gifted military leader, and at the same time he had to act as an obedient servant of Rome, showing no tendency to renew the schemes of Mithradates.

Therefore the choice of a ruler for the Bosporus was a very difficult task, and the number of solutions of the question was nearly unlimited. The death of the last Paerisades did not necessarily bring to an end the whole royal house of the Spartocids, related to the royal families of many Scythian and Sarmatian tribes. This is testified unanimously by all the half-romantic, half-historical data concerning the Bosporus of the later Hellenistic time—the tales told by Polyaenus about Amaga and Tirgatao, and the scraps of a legend about one of the latest Leukones reproduced by Ovid and his scholiast, and also the crumbs of historical knowledge which lie at the base of the moralising Scythian dialogues of Lucian, who undoubtedly was conversant with the Hellenistic literature concerning the Bosporus.¹¹

Out of this agglomeration of Greeks and Sarmatians related to the Spartocids a pretender to the throne might always appear, and always could be found when required. At the same time, all the direct descendants of Mithradates, the chips from the old block of his numerous family, had a legal right to the throne.

The dynasty of the Polemonids, the successors of Mithradates the Great on the throne of Pontus, ranked also, of course, among the pretenders to the kingdom of Bosporus. On their side was the ancient tradition closely linking together the cities of Pontus to the Greek cities on the Crimean shores.

Lastly, the ancient ethnical relationship, and in later times the tradition of Lysimachus, who at a certain epoch very strongly influenced the history of the kingdom of Bosporus, also the continuous tendency of the Thracians to move their boundaries eastwards converted even the Thracian vassals of Rome into pretenders to the throne of Bosporus and to the inheritance of Mithradates on the northern shore of the Black Sen.

In the historical struggle for the throne of Bosporus, no less than in the general history of the East at that time, a striking part was played by a number of eminent women with powerful connexions at the court of Rome, where such personal influences worked often in conjunction with political considerations, creating at times some rather odd combinations. Doubtless Pompey and Caesar, in later times Antonius and the Eastern plenipotentiaries of Augustus, Agrippa and Tiberius, and after them Germanicus, as plenipotentiary of Tiberius, not to mention the emperors themselves when they stayed in the East, were surrounded by Eastern dynasts with wives and mothers. The cunning Levantines were especially successful in influencing the women who often accompanied the political rulers of Rome, especially on their journeys to the charming East.

It is from these points of view only that it is possible to comprehend

See my article, 'Amaga and Tirgatao,' Antiquities of Odesos, v. axxiii in the Bulletin of the Society of History and J.H.S.—VOL. XXXIX

the dynastical history of the Rosporus of that dark and complex epoch. It must be kept in mind also that even at that time Rome created new provinces and annexed Eastern kingdoms very unwillingly and only in cases of absolute necessity.

Dynamis, daughter of Pharnaces, was doubtless one of the most eminent women of that complex epoch. Her history reminds us to a great extent of the history of the clever, energetic, enduring, and ambitious women, wicked wives of many husbands, who appeared at the Hellenistic courts after Alexander.¹⁰

The date of her birth is unknown, as also the date of her marriage. No serious arguments can be found for or against the statement that it was she, precisely, who had been suggested by Pharnaces as a wife for Caesar in 47 n.c. ¹³ Anyhow, about that time she became the wife of Asandros, who ought to have been then over sixty years of age (he died about 27 n.c. at the age of ninety-three): ¹⁴ therefore, at the critical moment in her life, after the death of Asandros Dynamis, in any case, was not a very young woman (probably between thirty and forty), as is indicated by her very realistic portrait on the above-mentioned stater, coined in 17–16 n.c.

We do not know whether she married Asandros before or after the death of Pharnaces. The one alternative is as possible as the other, but in any case at the time of her marriage she was only a tool in the hands of the politicians of that period.

The marriage with Dynamis was of the greatest importance to Asandros, as it linked him to Mithradates and guaranteed his support by the people

Monograms, Bulletia of the Oclean Society of History and Antiquities, v. xxix., wherein the whole series of gold coins of the period, as also a number of brance coins, partly mapablished before, belonging to the epoch that concerns us, are well published for the first time and the whole literature is reviewed very thereaghly. A number of important indications are added in the work of A. Orieshnikoff, Exemptions in the Region of Ascient Neuromanics on the Shores of the Black See, Mossow, 1914, Namen, Collect, iii., especially p. 29 f., 57 f., 62 f.

App. B. vo. 11, 91; compare van Sallet,
Bestring van Grachichte und Numismatik der
Königs des eintentrisches Besporus und des
Pontus, Berlin, 1865, 6, footnote 8; more
penbable is the opinion emitted by Bosekh
(C.I.G. fi. p. 94) and V. Voigt, De Asundra,
Bospori regs, Kiev, 1884, p. 3, that Asundras
became son-in law to Pharmares (Dio, 54, 24)
before the entastrophe of 47 2.0.

Luc. Morrot. 17; Voigt, I. L. As the marriage of Dynamis was purely political, it is quite possible that at the time she was still in her childhood.

if All the amount testimonies and the most important literature concerning the history of the Bosporm after Mithradates have been collected, after Boockii, by Lutyshell in his introduction to his publicution of inscriptions from the Bosporus; see the latest, somewhat revised, edition of this introduction in Russian, Latysheff, Herema, 93 f., the newest Russian literature, unknown to Beumfin, the author of the articles, 'Bosporus,' 'Chersonesus,' and Dynamis, published in the Encyclopaedia of Panly-Winnewa-Kroll, who gives the complete list of works on this subject published in Western countries, has been studied and made one of in its totality by E. H. Minns, Scothians and Greeks, p. 591 L. The article of Steam, Gepnepyres, in Pauly Kroll, R. E., must be ailded to his references, as also the excellent articles of Dessau in Prosopographia imperii Roman, and his article in Eph sp. 1x. 4, 191 1, De vegina Pythodovide at de Pythodorule juniore and Reger Thrucias qui voccini imperunte Aigusto. Amungst the newest munismalle literature great importance is to be attached to the article of A. I. Berthier Delugardo, 'On Coins of the Rubers of the Cimmerian Bosporus, identified by

in the struggle with the Roman agent, who called himself Mithradates of Pergamon,16 and posed also as a descendant of Mithradates. The fact that Asandros considered his marriage as of very great importance to him is emphasised by an inscribed stele erected in Panticapacium by Pantaleon, an admiral of Asandros, on the occasion, probably, of a great naval victory (Inser. Or. Sept. P.E. ii. 25). The inscription runs thus: Balorkevorres Βασιλέως Βασιλέων | μεγάλου 'Ασάνδρου [φιλ]ορωμαίου σωτήρος καί βασιλίσσης Δυνάμεως Παυταλέων ναύαρχος Ποσιδώνι Σωσινέζωμ και *Adpaditm Navapyiot. The name of the queen, placed next to the king's name, indicates a sort of condominium. It is quite possible that Asandros retained his throne after the episode with Mithradates of Pergamon because Caesar, having then no time to devote to the far East, adjourned the regulation of the affairs of the Getae and the Parthians until the expedition, planned by him, into Parthia and against Boirebistas, and that later Asandros discovered a proper line of behaviour during the stormy period of the triumvirate, when possibly Dynamis became personally known to Augustus and Livia, whose support, as we shall see, she enjoyed afterwards.16 A dark moment in her history was the episode of Scribonius, to whom she was married after the death of Asandros. Probably Dessau (Eph. ep. ix. 4, 694) is right in his supposition that Scribonius, posing as a grandson of Mithradates, was actually a provincial man, maybe of royal descent, who adopted a Roman name (Dio, 54, 24). It would be scarcely possible for Dynamis to accept for a husband an otter stranger, a Roman without any right to the throne. But Seribonius was not successful, after the death of Asandros, as the coin of Dynamis indicates, she reigned as queen, while Scribonius was quickly removed by the Bosporans themselves perhaps by Bosporan Greeks, to ward off the danger of a new quarrel with Rome.12

After the episode of Scribonius, with the object evidently of preventing similar attempts in the future, Dynamis was married to Polemon—i.e. the Bosporan kingdom was reunited to Pontus, of which Polemon was the king. The condominium of Polemon and Dynamis continued for a very short time. It must be kept in mind that Polemon was murdered in 8 s.c., and that between 14 and 8 s.c., he had time to contract a second marriage with Pythodoris, and to get three children by her. If we allow four years only for the procreation of those three children, then his marriage to Pythodoris—i.e. the removal of Dynamis—ought to have taken place in the years 13-12 s.c.; therefore his cohabitation with Dynamis could not have lasted more than one year.

¹¹ Strabo niii 4, 3, c. 625; B. Aber. 26 and 78; Dio, 42, 48

¹⁸ See my article, "Cover and the South of Russia," J. R.S. vol. vii.

[&]quot;I find no contraduction between the statements of Dis (L.) and pseudo-Limins (L.) (compare Voigt, L. 7); it was quite possible that Assufter same partly deserted

to Scribenius, as pseudo-Lucian affirms, as it dentitless consisted to a comiderable extent of Sarmatisms and Scythians; later it was not they who removed Scribenius, but the Greeks from Panticapaeum; see Dio, 54, 24, 3.

¹⁴ Dio, 54, 24, 6:

Strabo xu. 3, 29, c 556.

Polemon's marriage to Pythodoris led nearly all the learned commentators who studied the events in which we are interested to suppose that Dynamis died in 13 or 12 nc. 20 Nevertheless, we must remember that no mention of it is made in any ancient record, and that many data and the whole run of events on the Bosporus testify to the contrary. Let us

disentangle these data.

Apart from literary works, the name of Dynamis appears also on a number of inscriptions. In two of them she figures as the person consecrating statues to Augustus—one in Phanagoria, another in Panticapaeum; in one of the inscriptions she figures as the person consecrating a statue to Livia in the temple of Aphrodite. See I. O. S. P. E. ii. 354: αὐτοκράτορα Καίσαρα θεοῦ νίὸν | Σεβαστὸν τὸν [π]άσης γῆς καὶ | [πάσης] θαλάσσης ἄ[ρχ]οντα | τὸν ἐαντῆς σωτ[ῆρα καὶ εὐ]εργέτη[ν] βασίλισσα Δύν[αμις φιλορώ]μαιος (Phanagoria); I. O. S. P. E. iv. 201: α]ὐτοκράτορα Καίσαρα θεὸν | [θ]εοῦ νίὸν Σεβαστὸν τὸν ἐαντῆς | [σ]ωτῆρα καὶ εὐεργέτην | [β]ασίλισσα Δ[ύνα]μις φιλορώμαιος (Panticapaeum); iv. 420: Λιονί]α[ν] τὴν τοῦ Σεβαστοῦ γυναῖε[α] | [βασίλισσα] Δύναμις φιλορώμαιος | [τὴν ἔαν]τῆς εὐεργέτην.

And the people of Phanagoria erect a statue to her; see L.O.S. P. E.

11. 356: β]ασίλισσαν Δύναμιν φιλορώμ[αιον | τή|ν ἐκ βασιλέω[ς μ]εγάλου Φα[ρνάκου | το]ῦ ἐκ βασιλέως βασιλέων Μιθ[ραδάτο]υ Εὐπάτορος [Διο]νύσ[ο]ν | τή|ν ἐαυτών σ[ώτειραν κ]αὶ εὐε[ργέτι]ν [ὁ δ]ήμος [ὁ Αγριπ]πέων.

When were these inscriptions set up and what was their object? Clearly the first three inscriptions testify to some great act of bounty to Dynamis on the part of Augustus and Livia, and the fourth testifies to an act of bounty by Dynamis to Phanagoria. In both cases they allude to salvation from some very great and serious danger. The fourth inscription alone can be dated approximately. It is clear that the stele with this inscription could not have been erected before the intervention of Agrippa in the affairs of the Bosporus. The adoption alone by the city of the name of Agrippa indicates that this intervention was considered by the citizens as a great benefit to the city. And if the alluring suggestion of Orieshnikoff is to be accepted: that simultaneously with the adoption by Phanagoria of the name of Agrippa, some other city, probably Panticapaeum, adopted the name of Caesarea-as seems to be indicated by two series of copper coins, one with the inscription 'Aypername and the other with the inscription Kairapeweit should be evident that such a change of names was closely linked to some event connected with the whole kingdom of Bosporus.21

Orieshnikoff²² quite rightly connects the copper coins bearing these inscriptions with the series of gold staters bearing heads of Augustus and Agrippa stamped on them and the monograms × or ×. And this series, beginning only in 8 n.c., goes on up to 7 a.D. Therefore the changing of the

A. Orieshnikoff, t.1, 40,

The only exception is Minns, Scathians and George, 504, 1 and 601, who suggests the same construction, taken broadly, as 1 do, although as to details we differ in a number of points.

²² See A. Orimhinikoff, Excursions into the Region of Ancient Numiumities on the Shares of the Black Sea, 4. Coins of Camurum and Agrippia, p. 37-1.

names of the cities was connected with the event which occasioned the appearance of the above-mentioned series of coins with the monogram Z

n the year 8 B.C.23

The fourth of the above-quoted inscriptions fully agrees with all this. It cannot belong to the time of the personal reign of Dynamis in 17-16 B.C. At that time Phanagoria could not yet have been renamed 'Agrippia,' Neither can it belong to the year of condominium of Polemon and Dynamis. There is no allusion to Polemon in the inscription. Dynamis appears as sole ruler; she alone figures as the saviour and benefactress of the city, but not Dynamis and Polemon together, and the city emphasises her legal right to the throne, insisting on the fact that she is the daughter of Pharmaces and the granddaughter of Mithradates. All this is absolutely irreconcilable with the suggestion that the inscription belongs to the year of the condominium of Polemon and Dynamis. Polemon's masterful personality would never have allowed such a belittling of his prerogatives. It is clear that the inscription belongs, first, to the time of the personal reign of Dynamis; secondly, to the time after 17-16 s.c.; and thirdly, not to the epoch of the condominium of Polemon and Dynamis, but most probably to the time even after 8 n.c. This alone shows clearly that Dynamis did not the in the year of the marriage of Polemon with Pythodoria but continued to live and came to reign again as sole personal ruler of the whole Bosporus.

And precisely between 8 s.c. and 7 a.b. the series of coins is issued on which, beside the heads of Augustus and Agrippa, the de facto dispensers of life to the Bosporus, appears the humble monogram χ , most naturally deciphered, as Monnusen had pointed out already, into $\Delta \dot{\nu} \nu a \mu s$, the letters Δ , γ , λ , M, and even Σ being indisputably present and in themselves giving more than sufficient material for a monogram of the name $\Delta \dot{\nu} \nu a \mu s$.

pacum. Possibly Dynamia concet the copper money of the state simultaneously with this numerical coinage. In my sericle, "The Copper Counge of Dynamia and Aspurgos" (Bulletin of the Scientific Record Commission of Tunris, 94 (1918)). Living to prove that this copper was represented by the cores with the managram BAE, see on them A. L. Berthier Delagardo. Bulletin of the Odeson Society of History and Antequation, exix. (1916), and Orientunkoff, Namion Collect, iii. (1914)

When the second is the above mentioned article of A. L. Berthier-Delagarde, Rulletin of the Odeson Society of History and Antiquities, rxix. p. 111 f., Nos. 35-43 and Pie H., HL; Mommen, Gesch. of Rom. Macro. 702, foot-mie; A. von Sallet, Beiträge, etc., 69 f.; but their historical explanation of the column is unasceptable; compare Brandis, P. W., R. E. s.s. Dynamic, wherein the latest works of Mommen are indicated, especially Eph. sp. 1-250

³⁹ In addition to the statements of Oriosis nikoff, I may may that both the above-mentioned series of some (the gold ones with heads of Augustus and Agripps, and the copper ones with the names Chesares and Agrippis corneids with the above-quoted series of inscriptions also in that on the obverse of the coins of Agrippia and Cassarya s econom's head is represented in the headgear of a goddess, but with features which are generally likened to the features of Livia. I cannot refrain from stating that I, personally, am reminded by this bend with a disslem, on the come of Agrippia, not of the features of Livia, with whom, to tell the truth, it has very little in commun, but of the head of Dynamia burself on her com, and of the Isatures of our hust. Therefore I am disposed to suggest that the Agrippians and Cassarpans ornamented their coins with the head of their quees, adcorned with the consecrated bendger of the chief prices of the swinelpal goddess of Phanagoria and Pantica-

These facts alone are sufficient to prove beyond dispute not only that Dynamis did not die in the years 13-12 a.c., but that, on the contrary, she arranged matters so as to be recognised as sole sovereign of the Bosporus. The first three inscriptions quoted above accord fully with all this. They are explained generally as expressions of the gratitude of Dynamis to Augustus and Lavia for her marriage to Polemon. I consider this to be quite impossible, first, because, as I have stated already, there is no reference whatever in the inscriptions to Polemon, and Dynamis figures as the sole queen of the Bosporus; secondly, because Augustus and Livia at that time, could not have saved Dynamis from anybody or anything; and thirdly, because there happened to be no reason for Dynamis to be thankfulshe was the rightful queen of the Bosporus, and Augustus together with Agrippa only lessened the scope of her legal rights by placing her under the tutelage of the powerful king of Pontus who was not inclined to consider himself as only a nominal sovereign of the Bosporus, but immediately installed himself on the Bosporus as master and ruler."

On the other side, her installation as the autonomous and sole sovereign of the Besperus constituted a real bounty to Dynamis; it proved her salvation too, if the conditions are considered under which it was made effectual. These conditions of which we possess some short records,

are in perfect harmony with all the above-mentioned facts.

Strabo mentions Polemon's death twice and speaks of the position on the Bosporus after it occurred. In Book xi. 2, 11 (c. 495) he mentions the Aspurgians, a new tribe, of whom Artemidoros of Ephesus, the source from whom Strabo takes his facts, knows nothing, having enumerated the Macotian tribes, Strabo sets apart the Aspurgians as a new people with whom the information which he possessed connected an interesting historical record, saying as follows: τούτων δ' εἰσὶ καὶ οἱ 'Ασπουργιανοὶ μεταξύ Φαναγορείας οἰκοῦντες καὶ Γοργιαπίας ἐε πεντακοσίοις σταδίαις, οἰς ἐπιθέμενος Πολέμων ὁ βασιλεύς ἐπὶ προσποιησει φιλίας οἱ λαθών ἀντεστρατηγήθη καὶ ζωγρία ληφθείς ἀπέθανε. Compare xii. 3, 29, where Strabo is apeaking of Pythodoris: ἔστι δὲ θυγάτηρ Πυθοδώρου τοῦ Τραλλιανοῦ, γινη δ' ἔγίωτο Πολέμωνος καὶ συνεβασίλευσεν ἐκείνο χρόνον τινά, εἶτα διεδέξατο την ἀρχήν τελευτήσαιτοι ἐν τοῖς 'Ασπουργιανοῖς καλουμένοις τῶν περί τῆν Σινδικήν βαρβάρου.

This 'new' tribe, the Aspurgians, mentioned later in inscriptions belonging to the third century of the Christian era (I. O. S. P. E. ii. 29, 430,

porus. The great significance attached by Augustus to the Besporus troubles is indicated by the number of honours awarded to Agripps (Dio, I.L.) for arranging affairs on the Besporus. This shows that Scribonius was not a simple selventurer and that his marriage to Dynamia was considered as a arrious danger to Rome, as a threat of a renewal of the spopes of Mithradams.

White possibly, even, the apposition with which Polemon was not on the Bosporns when he appeared there (Die, 54, 24) may have been traced to Dynamis as its source, and only a direct order from Augments favest line to make a temporary peace with Polemon and grant him her hand. Augments and considered that marriage is the ade and unique guarantee of peace on the Bos

431) was probably as I have indicated already in another place " (compare Latysheff Horrisa, 103, not a tribe, but the troop of armed followers of King Aspurgos brought by him from the shores of the Sea of Azov, or from the depths of Sarmatia, who helped him to conquer a throne for himself, and who, therefore, were domiciled by him on the richest lands on the Taman, between Gorgippia and Phanagorem, as his trustworthy supporters and hodyguard. This tribe, therefore, is a geographical navium, the advent of which on the Taman was explained in the source used by Strabe (probably Hypsicrates), the description having been incorporated into the above-

quoted sentences by Strabo.

Aspurges undoubtedly ruled the Bosporus, as is proved by his inscriptions (I. O. S. P. E. ii. 36 and 364); his coms, dated, like the coins of Dynamis, according to the era of Pontus, are marked from 10 a.p. by his monogram 25 and from 13 a.D. by the same monogram with the addition of the title Basikers (to the monogram as is added the letter B); this continues up to 35 A.D. Chronological sequence shows that he was the successor of Dymanis (concerning the interval in 8 and 9 a.n. see below). I think that he succeeded her as her fourth legal husband. The marriage of Dynamis and Aspurges was probably made easier by the fact that Dynamis herself had Sarmatian blood in her veins. It is quite probable that her mother the wife of Pharmaces, was a Sarmatian woman from the tribe of Syrakes or the tribe of Aorsi. As is known, those tribes supported

What was the fink hinding Aspurges to the tribe to which the Aspurgians belonged ! This link or hond, demonstrated by the import rendered by the Sarmatian tribes to Aspurges and his son Mithradates VII., may be most easily explained by the supposition that Aspurged was a Sarmatian king, the head of the title, whose support Dynamic bought by marrying him. Such a supposition seems to be contradicted by an insuription in honour of Aspurgos, wherein he is described as the son of Asundroches, Usually Asandroches as identified with Asamiros (see I. O. S. P. E. il. 36 | Such an alteration of a name in an official in cription appears to one very strange indeed, and I am quite disposed, with Kiesding (P. W. K., R.E. vii. 1628), to consider Assadrockes as a Sarmutlan king who had anthing in common with Asambos. If this is true, then the crasen is plausible why the descendants of Aspurgus occupying the throne of the Bosporus were so fond of giving their some the name of Sauro mates. They transcred the memory of their Sarmatian descont. It is, of course, however, possible that Asperges was a son of Assaulres and Dynamis. The alteration is the name of Amndres may then be explained by the sepposition that Asmelyra was not a Greek, but a Sarmettan, and that his Sarmatian name was Graceissel. Teamnot consider such an altermative as very convincibil.

Is See my article, *Strabo as a Source for the History of the Bosporus, in the collection of articles bessed in bount of B. P. Busemit. Kharkoff, 1914.

Buildin of the Imper, Archivel. Commirsing 10, p. 13. Concerning the Aspurglans, -e the remarks of N. Marr, of the Petrograd Academy, published in the Bussian version of this article. As shown by these comurks, the regimen of life of the tribe, probably Sarmatian, to which the Aspurgians belonged was purely Iranian. Aspurges, probably related by birth to the tribe including the Arpurgrams, was followed in his advance into tim emmtry of the Bosporon by his young tribesmen, who formed the troop of his buly guards. Domiciled in the country of the Smill and Kurketai, evidently as landowmers. and at the same time as bodyguards of the king (they played the same part later also), they seemed the name of 'Aspurgman,' i.e. some of Aspurges, corresponding to the "wasof boyards' in Romin, and they gave their name to the country occupied by them, as shown by Strabe and the comperisons made by Mart.

Pharmaces (see Strabo xi. 5; 8 c 506; App. Mithr. 120). Aspurgos, quite probably, was also one of the lesser kings of the same tribes—a relation perhaps of Dynamis. Such a relationship, as I have already indicated above was quite common on the Bosporus in the later Hellenistic times. The last Spartocids undoubtedly were not Greeks, but half Iranian, half Macotic.

In view of all this, I suppose the events to have taken the following course. When Polemon married Pythodoris, Dynamis sought shelter, as Mithradates VII did later, with one of the neighbouring Sarmatian tribes. at the head of which stood Aspurgos. The hope of conquering the Bosporus. and perhaps bonds of relationship, prompted Aspurgos to marry Dynamis and to give her his energetic support. It is possible, even, that the measures planned by Augustus and Agrippa to quiet troubles on the Bosporus by means of the marriage of Polemon and Dynamis proved unsuccessful, and that misunderstandings between Dynamis and Polemon started in the very first days, leading to a revolt against Polemon, organised by Dynamis, with the help of Aspurgos, in the Asiatic part of the kingdom. This forced Polemon to begin, immediately after his accession to the throne of the Bosporus a number of military expeditions against the revolted tribes, which led, inter alia, to the capture of Colchis and the destruction of Tanais-that city having probably taken the side of his wife and Aspurgos (see Strabo xi. 2, 3 (c 493) and 2, 18 (c 499)), and having refused to submit. Nevertheless Dynamis and Aspurgos held on amongst the tribes on the shores of the Sea of Azov, and Polemon did not succeed in reducing them by force of arms. He tried then to conquer by canning, maybe precisely at the time when the troops of Aspurgos had already captured the whole of Sindica, but was caught in his own trap and was murdered. This epopee went on from the 13th to the 8th year a.c., with intervals of course. Such an order of events explains quite naturally the marriage of Polemon and Pythodoris.

The critical moment for Dynamis arrived when Polemon was murdered and Augustus had to decide definitely the fate of the Bosporus. Probably, not uninfluenced by Livia, and principally because force was on the side of Aspurgos and Dynamis, influenced also by a promise from Dynamis of total submission, Augustus decided in her favour. Her rights to the throne were recognised as against the rights of Pythodoris, who, with three small children on her hands, could not effectively guarantee the maintenance of the tranquillity so much required on the Bosporus. But the autonomy of the kingdom had to come to an end. The head of Dynamis and her full title do not appear on the coins any more; a humble monogram alone testifies to the fact that, although in the name of Augustus. Dynamis is still ruling over the Bosporus.²⁰ Under such conditions it is comprehensible that Dynamis had to feel, or to pretend to feel, thankful to Augustus and Livia, and was obliged to emphasise constantly that she was φιλορώματος. It is quite comprehensible also that Phanagoria, threatened with the same

³⁶ It is characteristic that in this monogram no mention is made of the regal title of Dynamic.

fate as Tanais, glorified its saviour, Dynamis, and honoured her by erecting a statue with a glowing inscription, not forgetting to mention that she was φιλορώματος, i.e. simply a vassal of Rome in spite of her descent from Mithradates. It is comprehensible that Dynamis felt obliged to rename two of the cities of her kingdom, changing their names into Caesarea and Agrippin, in honour of Augustus and the late ruler of the East, who at that time was already dead. 30 Simultaneously begins the cult of the Roman emperors on the Bosporus, as is testified by the Kanaapenov of Phanagoria." Consequently, I take it as proved that, after the death of Polemon, Dynamis was appointed by Augustus to rule over the Bosporus, and that with the help of her fourth husband she succeeded in removing Polemon, who strove to become the de facto master on the Bosporus. Dynamis ruled up to 7 a.D., when she died at the advanced age of about seventy years. Her closest collaborator evidently was her husband Aspurges. Somewhat similar was the position about the same time of Pythodoris, who ruled conjointly with her son, although her son remained Ιδιώτης (Strabo xii. 3, 29, α 556), but without the royal title.

Such, in my opinion, is the history of Dynamis. It is comprehensible that during her long life she should have acquired a great popularity in her kingdom and that her portrait may have been kept in a temple or in some public building, not only within the closer limits of the kingdom proper, but also in a seashore city, like Bata (Novorossijsk), which recognised her rule.

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In addition to this short history of Dynamis, I have now to record the fate of the dynasty related to her.

After the death of Dynamis, Aspurgos was not recognised at once as king and ruler of the Bosporus. The direct successor of Dynamis was a person indicated by the monogram on gold coins. The identity of

have allowed the head of Agrippa to appear, while Agripps was still living on a whole series of come together with the bond of Augustus. New, after Agrippa's death such reverence on the part of Augustus towards such a nun of gonine as his late collaborator, who had worked so hard for the welfare of the East, was quite comprehensible. It is true that during the life of Agrippa come were minted in Rome with his portrait, as an honour granted to him by Augustus, but this is far from equal in meaning with the fact of coins being minted by a varial kingdom in the names of Augustus and Agripps and the simultaneous adoption of the names of Augustus and Agripps by two principal cities. of that kingdom.

11 1.O.S.P.E. ii. 362.

[&]quot; As, undoubtedly, the types of Bosporne come at that time were specified, if not in Rome, then in any case by the representative of Roman power in the Kast, the new names of cities, and the types of come as well, had to emphasise the fact of the vanishage of the Bespecies to Remus. My reconstruction of events and my explanation of their meaning also explain the remon why the head of Agripps appeared on the Bosperan coins together with the head of Augustus, and why Phanagoria was remanded. It must be kept in mind that at that time Agripps was already dead. All these honours, therefore, served only to insmortalise his memory, which is confirmed by the type of the hear, represented without my insignia. Augustus may have placed Agripps very high in his esteam, but it is a great question whether he would

this person is a matter of conjecture only. I suppose that most probably after the death of Dynamis, the influence of Pythodoris prevailed again, and the king an may have been one of the sons of Polemon, the same perhaps, who later on ruled conjointly with Pythodoris and whose name remains unknown to as (the other son, Zenon, according to Tacitus, Ann. ii 56, was made king of Armenia in 18 A.D.).

Evidently ones more the history of Polemon repeated itself. Aspurgos succeeded in affirming his rights, and from 10 A.b. his monogram appears on coins. In 13 A.b. he receives the royal title, and during the rule of Tiberius he begins to must coins with his own portrait on the reverse, and with the head of Tiberius first, and then that of Gaius, on the obverse.²³

As we know, Aspurgos had two sons; the elder was Mithradates, and the younger Kotys.²³ Both names are interesting; the first indicates the relationship of Aspurgos to the Achaemenids, while the second suggests

some link with the ruling house of Thrace.

Those links require an explanation. Mithradates VII., the elder son of Aspurgos, insists especially on his relationship with the Achaemenids and Dynamis (see his coin with his head as sun-god and the sun and the moon on the reverse as on the coins of Dynamis Pl. IV. 7, comp. 4) After his death this tradition is nearly forgotten, but during the reign of his younger brother Kotys and his successors the Thracian tradition gathers great strength, and along with it the Sarmatian tradition mentioned and explained above is insisted upon. The Thracian tradition is indicated by Thracian names of most of the kings, and by the fact that the kings traced their genealogy up to the progenitors of the Thracian royal house Poseidon and Heracles (through Eumolpus).34 The Achaemenid tendencies of Mithradates can be explained only by the influence of Dynamis. If Aspurgos was actually the husband of Dynamis and not her son begotten from Asandros, then it must be admitted that Mithradates VII, was the son of Dynamis and Aspurgos, and inherited the Achaemenid blood of his mother. His portraits (see Pl. IV. 8, 10) show that when Aspurgos died he was a grown-up man; it may be quite possible therefore, that he was born about the year 10 n.c., when, as it is to be supposed, Dynamis and Aspurgos were living together. 22

In 36 a.b. Mithradates was a grown-up, perhaps even an elderly, man, while his brother Kotys at that time was still an infant. His name was

five. I do not consider this argument to be conclusive. A second adverse argument may be found in the fact that the above-mentioned emblems of Heracles and Fostilon appeared also on the come of Mithralats, but this can be explained by the influence of Gepsepyris, a Thracian soman. It has to be kept in mind also that Heracles played a part in the mythology of the Tamanum points and Possible was always greatly honoured in the assails utting of the kingdom of Bosporm.

²² See Berthur Dalagarde, I.L., p. 112 f., Nos. 46-67, Ph. 111., IV.

Tao. Ann. xii. 18: Latyshuff, Borrani, 108; Bullet, of the Imp. Arch. Communion, 37, p. 70, No. 7: Minna, Scythians and Greeke, 596 f.

^{**} See Latysbuil, Berrant, 113, tootmote 1,

There is one argument only adverse to this anggestion: the age of his approach mother. It must be approach that in 14-13 m.c., be could not have been younger than forty

Thracian; all his connexions were Thracian, too. Whence did that come? The male line of the dynasty of Asandros and Mithradates did not include any Thracian elements. There remains the female line; the mother of Kotys was undoubtedly Gepacpyris; Kotys has honoured her memory and the memory of Aspurgos, his father, by reproducing on one of his coins the portrait of the king, and on another the portrait of the queen (see Fig. 1).20 The queen's portrait is the same as was represented on the coins of Gepaepyris. 87 Beside the portrait of his father Kotys places his usual monogram; therefore the monogram placed next to the portrait of his mother has to be accepted as the monogram of Gepacpyris. Precisely the same monogram & succeeds to the monogram of Aspurgos on the gold coins. It must be deciphered, therefore, as βα(σιλίσσης) Γηπαιπύρεως. or \$(asiNissa) Pywainepes, and the monogram, just as in the case of the monogram of Dynamis, contains nearly all the letters of her name 36 Consequently it appears that Gepaepyris was the wife of Aspurges and the mother of Kotys; also that she was a Thracian 29 and belonged to a royal house. This explains why she could have inherited the power of Aspurgos to rule alone in the beginning and later to rule conjointly with Mithradates, the older son of Aspurgos.





Fig. 1.—Corn sensor by Korrs is Hosogra or the Memory of Germerkin.

If the pretensions of the Polemonids to the throne of Besporus are to be taken into account, it may be supposed that the position of Aspurgos, as occupier of the throne of Besporus, was strengthened after the liquidation of the struggle for this throne between the Asandrids and the Polemonids by means of a marriage of Aspurgos to a princess of Polemon's dynasty. It is known that this dynasty, in the person of Antonia Tryphaena, had already been linked before with the Thracian royal dynasty. The marriage of Aspurgos took place most probably after he was awarded the royal title, i.e. after 13 a.D., but could have been made the condition of a previous agreement.

given by Minns, Scythians and Greeks, 601.

See the very reliable remarks of Berthim-Delagards, i.i., p. 47 f., Fig. on p. 48, and Pi. H., Nos. 30-31.

If This similarity, as far as I remember, has move been duly appreciated, although the coin of Kotya without the slightest doubt, is a literal reproduction of the cola of his mother (see Pt. IV. 11).

[&]quot; The same solution of the question is

See Tomaschek, Die alten Thruker, 51; the same name appears in an inscription from Thracian Heraulea, in the spech of Hadrian, as the name of a lady belonging to a distinguished numicipal family; see I. gr. adv. R. p. 1, 783; Stein, P. W., B.E. vii. 1227 I.; Minns, I.I., 604.

If so, Gepaepyris may quite easily have been a daughter of Tryphaena and her husband, whose name was also Kotys. Tryphaena was born not later than between 11 and 8 B.C.; she married very young evidently, for in 19 A.D., when Kotys, her husband, died, she was already the mother of four or perhaps of five, children, if Gepaepyris is to be taken into account; one of these children, Polemon II., was appointed king of the Bosporus in 38 A.D. Consequently, about 20 A.D. or perhaps a little later, one of her daughters might have attained the age of fifteen or sixteen.

In the face of all the considerations stated above, I would suggest, with all reserve, that Gepaepyris was one of the daughters of Kotys and Antonia Tryphaena. It is true that tradition does not mention Gepaepyris as one of the children of Kotys, but it did not mention Pythodoris junior either as the daughter of Kotys and Antonia, until quite lately she was so successfully discovered by Dessau. It was quite natural for the royal wife of Aspurgos to succeed to her husband after his death. In 36 and 37 a.D. gold staters were minted bearing the monogram which we have recognised above as undoubtedly a monogram of her name. But Caligula and the Senate did not consider a woman's rule as sufficient guarantee of order, and Polemon II., the brother of Gepaepyris 1 as I suppose, was appointed king of the Bosporus.

Anyhow Gepacpyris and Mithradates did not concede their rights to Polemon, but it was Mithradates who at that time played the leading part, having, evidently, found strong supporters amongst the Sarmatians and Macotians, to whom he was closely related through both his father and his mother. From 39 a.n. he begins to issue coins with his own name instead of the monogram of Gepacpyris, and with the head of Caligula stamped upon them.

The struggle between Polemon and Mithradates was settled in 41 a.p. by Claudius, who, after compensating Polemon, definitely awarded the Bosporus to Mithradates and his stepmother Gepaepyris. But since that time Mithradates had to rule conjointly with Gepaepyris, as is indicated by the coins with the names and portraits of both of them, although Mithradates was still trying to play the first part, as some coins indicate with his name alone stamped upon them. Gepaepyris also tried to mint her own coins 42. But Mithradates had turned away absolutely from the

Dessau, Epl. ep. is. 4, 601 f. It an accidental concilions does not delide me, I am quits inclined to one a cettain likeness between Antonia Tryphaena and Gepacpyris, as represented by their portraits (see Pl. IV. I and II).

On Polemon II. and his fate after his removal from the Besporns, see Orieshnikeff, Numeral Collection, part i. (the Cilician mins of the king M. Automus Polemon).

[&]quot;The conclusions of Kahmaedi's work, 'France and antikes Minnes, in Klio, x. (1910), 261 f., agree completely with this re-

construction and explanation of the coins of Mithradates and Gopaepyria. The whole history of Hellenistic coins with the portraits of queens shows that the queens minted coins with their own portraits either as autonomous everaigns (Dynamie, for instance, Kahratedt, LL, 361 f.), as guardians of their sons, or as conjoint rulers. Kahratedt is right in anyposing that the coins of Gepaepyris belong to the latter sategory (LL, 363). The coins of Dynamis, acting as guardian, of her husband Aspurgos are also quite in the Hellenistic tradition.

tradition of a vassal Bosporus. He was dreaming of the creation of an autonomous kingdom, independent of Rome. On such a basis, quite possibly misunderstandings sprung up between him and his stepmother, leading to the journey of Kotys, sent by his mother, to Rome, where Kotys played the traitor to his brother, and, supported by Roman troops, overpowered and removed Mithradates, after having recognised Roman supremacy himself and having totally submitted to Rome. The minting by Kotys of come in honour of Gepaepyris proves that she had taken his side. She perished evidently during the struggle with Mithradates.

In such wise, I suppose, we may reconstruct the history of the epoch after the death of Dynamis, and such a reconstruction explains all the later history of Bosporus, where the Achaemenid character of the royal power was so greatly influenced by Thracian and local Sarmatian traditions, as

also by the traditions of Dynamis, Aspurgos, and Gepaepyris.

This complex, composite character of the royal power on the Bosporus was clearly realised by the kings themselves. Apart from the alreadymentioned coins of Sauromates II, and Rhescuporis II., on which the king is represented with the attributes of Poseidon and Heracles, the Thracian sympathies of the kings are emphasised also by the reproduction of a series of labours of Heracles on coins of Sauromates II., especially those with the figure of the king on a galloping horse, beginning with Kotys I (see concerning all this the Bulletin of the Imperial Arch. Commission. Soon, however, a strong Sarmatian tendency 49, p. 22 f., and Pl. IV.) becomes admixed with this showing itself also in the names of kings. Of that tendency I have spoken in detail in another place (Bulletia of the Imperial Arch. Commission, 49, p. 1 f.). That tendency becomes stronger and stronger in consequence of the growing Sarmatisation of the whole population of the kingdom of Bosporus. And the Achaemenid character is emphasised at last by the proud title of the kings-Basilely Barinson.

All these facts, which it would be out of place to describe here in greater detail, are for the first time thoroughly explained by the suggested reconstruction of the history of the kingdom of Bosporus in the period of transition, this by itself being a proof, and not a slight one, of the correct-

ness of the above-stated considerations.

As to our special object, it is important to note that none of the women who ruled over Bosporus in the first century of the Christian era could pretend to be a descendant of Mithradates except Dynamis. Therefore she alone has the right to claim for her own the bust which has served as the starting point of this study of the fate of Bosporus in the first half of the first century of our em.

M. ROSTOVTZEFE.

[&]quot; Compare Petrus Patr. Fr. Aist. pr. iv. p. 185, fr. 3; Latyahoff, Horrad, 108, 2. The history of the result of Mithrailates is told by Tacitus, Ass. xii. 15 L.; compare Dio.

^{60, 8;} Plin. N.H. 5, 17. It is characteristic that a last shelter and support were found by Mithrachaten amongst the Sarmatians, as was the case with Dymmis in her time.

A GREEK CARNIVAL

In the discussion of Greek dramatic origins, a curious passage of Apuleius! has never, so far as I know, been mentioned.

In the second book of the Metamorphoses the hero Lucius describes a feast given at Hypata in Thessaly by his rich relative Byrrhena. After the feast Byrrhena informs him that an annual festival, coeval with the city, will be celebrated next day—a joyous ceremony, unique in the world, in honous of the god Laughter. She wishes that he could invent some humorous freak for the occasion. Lucius promises to do his best. Being very drunk, he then bids Byrrhena good-night, and departs with his slave for the house of Milo, his miserly old host. A gust blows out their torch, and they get home with difficulty, arm in arm. There they find three large and histy persons violently battering the door. Lucius has been a warned by his mistress. Milo's slave Fotis, against certain young Mohawks of the town—' nesame factio nobilissimerum innenum'—who think nothing of murdering radi strangers. He at once draws his sword, and one by one stabs all three Fotis, roused by the noise, lets him in and he quickly falls asleep.

On waking next morning he is filled with alarm, but his meditations are cut short by the arrival of the magistrates, with an enormous crowd. Two lictors are ordered to arrest him, and he is solemnly led round the town, followed by the crowd, which is convulsed with laughter. At last he is brought before the tribunal in the forum. The crowd, however, insists on an adjournment to the theatre, where Lucius is placed in the orchestra, and tried for murder.

The three bodies, covered with a cloth, lie on a bier beside him. An elderly man, the chief night-watchman, who had witnessed the brawl, makes a speech for the prosecution. Lucius delivers an impassioned reply, full of vivid details of the fight, but the crowd only laughs the more. Two women then appear, one old and ragged, the other in black, carrying a baby: both wave dive-branches. They lament over the bier, and plead fervently for vengeance on the murderer. The senior magistrate then rises and addresses the people. Lucius, he says, has confessed his guilt, and must be severely punished, but first he must be compelled by tarture to reveal his accomplices. The instruments of torture are produced, but

at this point the old woman begs the citizens to have the corpses uncovered. The magistrates concur and decide that Lucius must do this with his own hand, and he is forced by the lictors to pull off the cloth. The three bodies prove to be three goat-skin wine-bottles, stabbed through and through by Lucius' sword.

The growd now bursts into uncontrolled agonies of laughter, and slowly leaves the theatre. Lucius stands dumb with shame, but is at last led home by Milo. The magistrates, in full state, immediately enter the house. They compliment Lucius on his noble birth, and beg him not to take the matter as a personal insult. They explain that a similar performance takes place every year in honour of the god Laughter, and assure him that this god will always befriend him henceforth. They add that the state 'pro ista gratia' has voted him great bonours: they have appointed him patronus, and have decreed the erection of his statue in bronze. Lucius declines these honours with thanks, affecting an amiability which he does not feet. After refusing an invitation to dine again with Byrrhona, he takes the first opportunity of slinking to bed.

Fotis then enters with every mark of distress, and confesses herself the cause of all his woes. She explains that her mistress Pamphile (Milo's wife, and a notorious witch) had sent her to the barber's, to collect the hair of a blonde young Bosotian, of whom she was emmoured. The barber had caught her, and in despair she had brought home instead the yellow clippings of certain goat-skin wine-bottles. Pamphile had performed incantations, with the result that the skins had been magically drawn to

the house, where Lucius had met and stabbed them.

Such is the outline of the story. It clearly fulls into two parts. The story of the witch and the wine-skins is complete in itself—one of the many short Boccaccian tales incorporated in the Metamorphoses. Amatole France has so retold it in a famous scene of L'fle des Pingonius. The

mock-trial is less casily classified.

It is true that the two stories have been carefully dovetailed. The author was faced with an obvious difficulty. How could this witch story be made the basis of a public joke, without involving the witch? Two inventions solved the problem—the darkness and the watchman. Drink or love might drive any of us to stab a wine-skin on a starless night. Did not Touchstone, when he was in love, break his sword upon a stone, and bid him take that for coming anight to Jane Smile!

Yet the connection is plainly artificial. Lucius fight takes place late at night "— fere iam terfin nigilia says the watchman—and he is arrested early next morning. The whole mock-trial scheme must therefore have been improvised at a moment's notice. So far as it goes, this rapid improvisation confirms the theory (put forward in this paper) that the mock-trial was an easy adaptation of a immemorial ritual. It seems likely,

* Cervantee pechaps had this incident in . . iii. 3. . iii. 1

Com suis insignibus, lii. 11. mind in Don Quixote, part i. ch. 35.

however, that, in an earlier version of Lucius' narrative, the fight with the wine-skins had nothing to do with Pamphile's witchcraft, but was a trap deliberately laid for Lucius by the young bloods of Hypata- uesana factio nobilissimorum inuenum'-aided and abetted by Byrrhena. The present narrative has many touches suggestive of Byrrhena's complicity, especially in the passage describing her attempt to get Lucius to dine with her after the trial.7 "Et ecce quidam intro currens famulus: "rogat te," ait "tua parens Byrrhena et couniuii, cui te sero desponderas iam adpropinquantis admonet." ad haec ego formidans et procul perhorrescens etiam ipsam domum eius: "quam uellem," inquam, "parens, iussis tuis obsequium commodare, si per fidem liceret id facere. hospes enum meus Milon per hodierni diei praesentissimum numen adiurans effecit, ut eius hodiernae cenas pignerarer, nec ipse discedit nec me digredi patitur, prohinc epulare undimonium differances." Attempts have been made to emend Lucius' opening words, but the whole speech would seem to come from an earlier version, in which Byrrhena herself was present. There is moreover no trace in the present narrative of this previous invitation, though Lucius does not dispute it. Both changes suggest a deliberate effacement of Byrrhena's rôle, and this impression is confirmed by Lucius 'dread and deep horror of her very house '- feelings which the present story hardly justifies,

The author's purpose in so recasting the story is not far to seek. By implicating Fotis in Lucius' humiliation, he gives a plausible motive for her reluctant * confession of her mistress' sorceries—a confession which quickly

leads to Lucius' momentous experiment in the Black Art.

In any case, it is clear that the story of the mock-trial may be separately

examined. The following points are important.

First, this festival of Laughter, peculiar to Hypata, was annual." Sollemnis dies, says Byrrhena, a primis cunabulis buius urbis conditus crastinus aduenit, quo die soli mortalium sanctissimum deum Risum hilaro atque gaudiali ritu propitiamus. Secondly, some sort of lusus, comparable to the mock-trial, always took place, though its form varied. Utinam aliquid. says Byrrhena, 'de proprio lepore lactificum honorando deo communiscaris, quo magis pleninsque tanto numini litemus. Bene, et fiet ut lubes, says Lucius (speaking truer than he knew) 'et nellem hercules materiem repperire aliquam quam deus tantus affluenter inducret. Nam lusua iste, say the magistrates, 'quem publice gratissimo deo Risui per annua reperticula sollemniter celebramus, semper commenti nonitate florescit.'

These passages might be taken (and were perhaps meant) to imply that the only permanent feature of the festival was some sort of public and enormous joke: a mock-trial to-day, but something quite different in other

^{*} iii. 12. * iii. 15. * ii. 31. * ii. 15. * iii. 15.

pelles . . . mascas indumnt, iii. 23 ° com semel anem . . · indusco, ° Its use with 'materieus is, however, difficult. ¹² iii. 11

years. Nevertheless the narrative has features which suggest the presence of more permanent elements.

First, the series of incidents forms a complete ritual drama of the Carnival type. We have first a fight, with the killing of one set of adversaries; then a public lamentation over the dead bodies; then the sadden revelation that the victims are not dead; and lastly the bestown! of honours on the victor. It is almost the exact sequence postulated in by Gilbert Marray for the hypothetical "Eniantes" celebrations' from which he believed that Tragedy developed— Agon, Pathos, Messenger, Threnos, Anagnorisis, and Theophany. Moreover the Pathos takes place off the stage and is only announced to the audience, and the bodies are brought in on a bier.

I do not wish, however, to press this correspondence, or to suggest that I accept Gilbert Murray's theory of the origin of Greek tragedy.

The fight and the deaths would normally, no doubt, be part of the show. Sham deaths on the stage seem to be common enough in Carnival fights. But in this case they had inevitably to take place off the stage and before the show; otherwise the exploitation of Lucius' brawl would have been impossible. The public might well consent to forgo the fun of the stage light for the sake of an April fool who honestly thought himself a murderer.

The honours voted to Lucius are not in themselves extraordinary, but the language with which they are introduced emphasizes the religious character of the performance. The magistrates words are worth quoting.18 Iste deus auctorem et !! - cae>torem suum propitius ubique comitabitur amanter nec unquam patietur, ut ex animo doleas, sed frontem tuam serena nemistate lactabil adsidue at tibi ciuitas omnis pro ista gratia honores egregios obtalit, nam et patronum scripsit, et ut in aere stet imago tua decrenit.

The absence of any " sexual element, such as a ritual marriage, is noticeable; but Lucius as a public butt was manifestly done with from the moment he saw the mordered wine-skins (though Byrrhena may well have plotted a muck-marriage for him, at that feast which he so wisely eschews). The crowd can scarcely have found much difficulty in improvising that side of the show,

Further, the leading of Lucius round the town has a thoroughly ritual character, as Apoleius twice indicates. Tandem pererratis plateis omnibus et in modum corum quibus lastrallibus piamentis minas portentorum hostiis circumforancis explant circumductus angulatim forum ciusque tribunal adstituor . . tung me per proscaenium medium uelut quandam nictimam publica ministeria producunt et orchestrae mediae sistunt." It could not be

¹⁷ Themis by J. E. Harrison, 1912, p. 341 ff. 14 in 11.

²¹ P has 'unictorium & torem summ' ('& torem' eroused out by a later hand); . has aucturem & intorem', 'autorim' (read by Helmi is due to Veligraff.

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is Lucius' orgy with Potis after her confession (iii. 20) is obviously a private affair. but it prowns with annualing propriety his day's religious adventure.

more plainly stated that Lucius is treated exactly like a pharmakos ": it will be remembered, for instance, that at Marseilles the pharmakos 18 4 circumducebatur per totam ciuitatem : and the shadow of crucifixion swas over

Who was the 'done Risus' in whose honour this festival is said to have been held? Byrrhena remarks that the Hypatines honour him 'soli mortalium. There is little evidence for this cult, though "I Powe appears occasionally as a member of Diopysus thinsos. Plutarch, however, twice mentions the cult at Sparta, associating it, after Sosibius, with Lyenrgus. άλλα και το του Γέλωτος αγαλμάτιου έκείνου Ιδρύσασθαι Σωσίβιος ίστορεί (Lyenry, 25.4) έστι δέ Λακεδαιμονίσις ού φύβου μονον άλλα καὶ θανάτου και γέλωτος και ταιούτων άλλων παθημάτων ίερά (Cleom. 9. 1). Both passages saggest a heal and unimportant shrine. The Risus of Hypata ** bodierni diei praesentissimum numen' seems to be Carnival personified, Pack macking the brief usurpers of Olympus.

The season of the festival is not clearly indicated by Appleius, but it is certainly either spring or summer, for roses is are in bloom. The coming of winter, after a world of adventures, is described in the ninth book,24 and the very first coming of the following spring "-" ner in ipso orta -is associated with the reappearance of roses. It is at the spring festival of Isis 26 that Lucius eats the roses that restore his human shape. The magistrates' phrase of per annua recerticula is not unsuitable to the vernal equinox, and spring is perhaps the likeliest season for Lucius' journey to

Thessalv.

Of recorded ancient festivals the Hilaria (as Beroaldus remarked) is that most readily suggested by Apuleius description. This festival took place on March 25th (reckoned the vernal equinox) and is associated by Macrobius, Julian, Damascus and others with the worship of Attis and Cybele It was an uproarious carnival "- Hilaribus quibus omnia festa at fieri debere scimus et dici -and included to free mesquerading in every

kind of disguise.

Though the performance described by Apuleius has clearly no direct connexion with Attis, it may easily have taken place at the Hilaria. Native munmeries must have flourished beside imported ritual. Apuleius n himself describes the masquerading revellers who accompanied the vernal procession of Isis at Corinth, in language which recalls Herodian's He clearly distinguishes these revellers from the worshippers proper; 'pompae magnae . . .

¹⁸ To some extent Lucius doubles the colus of victor and victim. He has to be in the limelight, and It is obvious that the Hypatines did not take their ritual very acromity.

iii Petrus, ap. Serv. ad Verg. Ass. iii. 75.

PERM 9.

¹² Philostr. Imag. 1. 25, and m tunes. = III. 12. ** IL. 16, III. 27-281.

H a 29. H xt. 14. 94 Jr. 32.

² iii 11. Cf. Finrida 18, 'willy annua renerticula.

[&]quot;Cf. Frazor, Adonis, Attis, and Overes, ed. 3, vol. 1. p. 273; also Clemen, G. Der Useprung des Karnevals' in Archie für Religiounce enchaft; xvii 1-2, pp. 139-158.

[&]quot; Vopies Aurel, i. I. = Herodian, t. x. 5-7.

M Mr S.

praccedunt anteludia. they are oblectationes indicrae popularium distinct from the peculiaris pompa of the sospitatrix dea. Apularus champion-ship of Isis against Cybele would perhaps suffice to explain the absence of any reference to the Phrygian deities at the Hypatine festival.

It is not necessary to suppose the mock-trial an original part of the festival; it may have compensated on this occasion for the loss of the normal fight, somewhat as the trial scene in the Acharnians takes the place of the regular Agon of Comedy.

It seems fair, however, to conclude that the whole story is based on a real spring festival, which Apuleius (or his Greek model) may themselves have witnessed: and that this festival included (1) the leading of a Pharmakos round the town; (2) a sham-fight in which one adversary was killed; (3) a lamentation; (4) the revelation that the victim was not dead, and (5) the public bestowal of honours on the victor, or on the revived victim.

The spirit of the narrative and the name of the God suggest that the festival had become a simple carmival of fun, 'semper commenti nonitate florescens.' It is the more surprising that the traditional features are soplainly preserved.

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of the trial-man, though explained by the story, are oddly remainsent of the Thronian

Carnival described by Dawkins in J.H.S. axvi. 1986, p. 198 - the old woman to rage, the baby, the policemon, and the goatshins.

NOTES ON THE IMPERIAL PERSIAN COINAGE.

[PLATE V.]

THE rulers of the Persian Empire, during whose reigns the Persian Imperial coinage was issued, were the following! :-

	HCC:
Dareios L, s. of Hystaspes	521-486
Xerxes L s of Darcies L	486 465
Artaxerxes I. Makrocheir, s. of Xerxes I.	465-425
Xuraes II. s. of Artaxerxes I	425
Ochos = Dareios II, Nothos, s, of Artaxerxes I	424-405
Arsakas = Artaxerxes II. Mnemon, a of Darelos II	405-359
Cyrns the Younger, a of Dareios II	401
Ochos=Artaxerxes III. & of Artaxerxes II	359-338
Arses, s. of Artaxorxes III	338 337
Kodomannos = Dareios III., s. of Arsanes, s. of Artostes	
or Ostanes, s. of Daretos II	337-330

The Persian Imperial coimage² consisted of gold coins, generally known to the Greeks as Daries (Δαρεικοί στατήρες), with smaller denominations, and silver coins, generally known as sight (σίγλοι, σίκλοι, σ word as Hebrew shekel), which also had smaller denominations. The word Δαρεικός was sometimes also used by the Greeks of the silver coins. The Persian name for the gold coins is not known to there can be little doubt that the word Aapsikos is a pure Greek formation from the Greek form of the Persian name Darayaneash; just as "fanciful" is a pure English formation from the English torm " fincy " of the Greek parragia "

wood darks used in contracts of the reigns of Nationalis and the false Smerilis, before the reign of Dareice U, as in the phrase he gave in payment two talents of day dates and a daribs: The meaning of the word, however, remains quite ancertain, and it is not clour that it is the name even of a weight, as Babelon (Terité, ii. ii. p. 30) now maintains.

* Hill, Hist. Greek Coins, p. Jr.

References to recent authorities in Babelon, Profit, 11, 11, 44, New also the genealogical true in Panly-Wilmowa, H. E. i. a.e. * Arlumendar.

The Plate accompanying this article represents a law of the more important varieties to which reference is made, enlarged to twice their net mil siee.

^{*} Cp. Plut: Cim. 3.

^{*} It has long been known that there was a

The probability is that the daric was introduced by Dareios L*; no specimens that have survived appear, so far as one can judge by style and fabric to be earlier than his reign.

The metrology of the daric and sigles has been subjected to an exhaustive analysis by Reging, which makes it unnecessary to go into details here. He comes to the conclusion that the normal weight of the daric is 84 grm. (1297 grn.) although single specimens are known of various higher weights from 841 grm. (1298 grn.) to 883 grm. (1363 grm.). The average weight is 8354 grm. (1289 grn.). The supposed half-daric does not exist as a denomination but two specimens of the plantage daric survive, one in the British Museum weighing 0.69 grm., and one weighing 0.71 grm at Berlin. As well as a single specimen of plantage of a daric, weighing 0.155 grm. It is difficult to know what purpose these small denominations can have served, except as makeweights when it was desired to make up the value of under-weighted darics.

The specific gravity of seven of the daries in the British Museum has recently been ascertained by the Rev. J. W. Hunkin. The average is 18.96. If the alloy is pure silver, the average fineness of these daries is 0.981, as opposed to 0.991 for Croessan staters also ascertained from the examination of seven specimens.

The normal weight of the sigles, again according to Regling's exhansive demonstration, is 5.6 grm. (86.4 grm.); the highest recorded weight is 5.88 grm. (90.7 grm.), the average 5.38 grm. (83.1 grm.). A table of frequency shows the mass of the coins concentrated between 5.26 and 5.60 grm. As smaller denominations Regling gives thirds, fourths (the point of distinction between these two denominations is difficult), sixths and one specimen of a twelfth. He reckons the curious little piece of 3.58 grm. illustrated in Pl. V. No. 5, and indeed other even lighter specimens as full sigloi; but the last piece in his list (British Museum, from Cunningham, 2.93 grm.) proves on examination to be nothing more than an electrotype, though an admirably made one. Mr. Newell has a specimen weighing 4.00 grm., which, he says, shows no signs of being plated or cast. The coins of very low weight may, as suggested to me by Mr. Allan, be of Indian origin; certainly

^{*} Herodotus iv. 106; Harpocration, a.r. Anjeness (up. Schol. Aristoph. Ecol. 602) says that it was named after some older king.

^{*} Klio, viv. 1914, pp. 91 ff., with full tables of revised weights.

^{*} Borrell (Num. Chr. v), 1843, p. 153) reports that the average weight of 125 gold daries from the Canal Find was 1294 grm, and that daries found in Asia Minor are always lighter, however well preserved, by from 2 to 25 grm, than the lightest of those in the Canal Find.

[&]quot; Klin, Lr. p. 100.

¹⁰ Z.f.N. xxiv. 1904, p. 87, Tut. iv. 5.

[&]quot; Ibut. Tat. iv. 6. Obs. Hand of King, r., bearded; see, Incuse.

²⁷ Nem. Chr. 1916, р. 258.

²⁸ Mandonald, Huntrian Catalogue, iii. p. 354, No. 4; obr. King with how and sword, ere, head of a sutrap; therefore not a mrinal Impetial coin. Six Hurmann Weber possessed a quarter siglos of 1 20 grm. (18 6 grm.) similar to one in the British Moscom weighing 1:10 grm. To Regling's list of sixths, add that in the Prove Coll. (Epper Katal sixths, 2578, Tat. sli., 0.71 gcm.) which is of Type I. King with spear).

the coin figured in Pl. V. No. 5, came from Cunningham's collection, and is of very peculiar (though not, so for as I can see, of specially Indian) style.

The gold darie, as is well known it was rated at 20 siglor, the ratio

between gold and silver being as 13/3 to 1.

It is perhaps necessary to say a word here of certain names of coins which, it has been thought, have some connexion with the Persian system. The Elophantine papers reveal to us the existence in Egypt in the fifth century of a system of reckoning by which

1 keresh = 10 shekels, 1 shekel = 4 d(rachmae l), 1 d(rachma l) = 10 hallurin.¹⁰

Keresh is the old Persian karsha. The word hallur $[\neg \Box \neg]$ seems to correspond to the Assyrian khalluru. Clermont Gannean ingeniously interprets the system as based on a shekel-tetradrachm of the Attic standard, and this may well be right, although the premiss on which he bases his argument is apparently unsound. It is very doubtful whether the hallur was an actual coin, and not merely a money of account; but it would be a convenient unit, since f_{ij} of an Attic tetradrachm was roughly equivalent to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian' standard and to g_{ij} of a tetradrachm of the Babylonian's standard and to g_{ij} of a tetradrachm of the Babylonian's standard and to g_{ij} of a tetradrachm of the Babylonian's standard and to g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and the g_{ij} of a tetradrachm of the Babylonian's standard and g_{ij} of a tetradrachm of the Babylonian

Δανάκη or δανάκης is the Greek form of the old Persian danaka, and is described by late Greek writers (Hesychius and Etym Magn.) as νομισμάνιον τι βαρβαρικόν, δυνάμενον πλέον δβολού. Whether it was a denomination of the Imperial Persian currency may be doubted. But there are small coins, such as the 'γ's shekel' struck at Sidon (about 0.89 grm, or 13.8 grm,) and the Aradian 'obol' (about the same weight) which were fairly plentiful in Phoenicia, and would fit the description. The ἡμιδανάκιον which is recorded would, on this theory, be represented by an actual Sidonian coin.

The classification of the Admenenid comage, in spite of one or two gallant attempts at solution, remains almost where it was in the days when Lenormant vaguely recognised that there were different profiles to be

14 Reging, to cut p. 100.

* P.S.B.A. xxv. (1903), p. 206. What precisely khalluru means, however, whether it is a small decommention of weight or coin, some to me not to be quite made out.

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10 B. M. C. Phoenicia, p. cit.

n Tresor de Numiem., Rois grece, p. 135-(1840), quoted by Babelon, Perses Achem.

D. with

¹⁹ See expenially A. H. Sayes and A. E. Cowley, Aramore Pupper discovered at Associations), pp. 22–23; Chernont Canman, Reviell & Arch. Orient. vi. pp. 183 ff.

[&]quot;The Hobrew shekel which Josephus (Ass. furf. iii 8.3) equates to four Attic drachins is the Tyrian shekel of his time which the Romans tariffed at four denaril (see Hultsch, Metr. Script., Index, a.e. sixtor, 3).

[&]quot; Hultmin, in Pauly Wissown, E.E. iv. 2.

See sepecially Babelon; Lee Poesse Achimenides (1893), pp. x1-xviii; 'L'homographie et me origines dans les types monétaires green' (Res. mm. 1908, and Mélanges Numeratiques iv. pp. 254-260); Traité des Monnaiss grecques et romaines, Part II. L. (1907), 257-54; it. (1910), 37-71. J. P. Six was for a time working at the problem, and communicated his views to Babelon (Poesse Achim, p. xiii. n.) and Hond (letters in 1991).

distinguished in the heads of the kings. Barchay Head # was content in 1877 to say of the duries (and the same must apply to the sigloi) that 'some are archaic, and date from the time of Darius and Xerxes, while others are characterized by more careful work, and these belong to the later monarchs of the Achaemenian dynasty and to describe Lenormant's attempt as a 'refinement of classification.' Thirty-four years later * he recognised that there were successive modifications in the physiognomy of the king which suggest rude attempts at portraiture, notably the beardless head, presumably of Cyrus the Younger (Pl. V. No. 3). The latest pronouncement on the subject * goes back to Head's position in 1877 and rejects Babelon's identification of the beardless king as Cyrus on various grounds.

That there are various modifications, which enable us to divide the clarics and sight into groups, is clear; but how far these are to be regarded as 'successive,' and how far they are merely due to local differences of work-manship is another question. It must be remembered also that the dating of other Persian works of art, such as seals, by their 'portraiture' alone is no more secure than the dating of the coins. Had we a dated series of scals, or of other objects with representations of the kings, it might be possible to obtain some evidence for the dating of the coins; although even then it would be necessary to remember that the traditions in one art are not always the same as in another.

The daries and siglor fall into four very distinct series, according as the Great King is represented as:—

I. Carrying strong bow in L, spear in r, (Pl. V, Nos. 1-6).

H. Carrying strung bow in L. dagger in r. (Pl. V. Nos. 7, 10, 11).

III. Shooting with the bow (Pl. V. No. 12).

IV. In half-figure, holding strung bow in L. two arrows in r. (Pt. V. No. 13).

Hist. Nam. p. 828;

34 P. Gardner, Hist. of Ancient Coinage (1918), p. 90.

" These are: (1) Several of the Persian kings manu to the throne young. [But norm of them was so closely in touch with the tircules, and therefore so likely to depart from the conventional bearded type; and the little mask of Pan on the reverse of the com in question is purely Greek in style. [12) The extreme rarily of the som is a strong reason against supposing that it was issued by Cyrus, who must have used gold come in great quantities to pay his Greek nurcenaries, who received a darie or more a month. But there is no reason to suppose that Cyrus wanted more coins for his Greek meromariss than other Persian kings for their vast armire. The rarity of ancient color is also too much a matter of chance to serve as an argument. (3) 'The weight of the example in Paris (8:46 grm., 130:5 grn.) seems to point to the period of Alexander the Great. The daries. on the contrary, which are shown by the atyle of their reverses (see below) to belong to the end of the Persian period, are not distingnished by high weights; and Viegling (Kilo, ziv. p. 104) finds the average of the double daries (which everybody admits to be of the time of Alexander the Great) to be 16:59 grm. . which yields a darie of \$ 30 grm., or less than the ordinary Persian darie. A table of frequency (intervals of 0.05 grm) constructed from Regling's list shows the highest point (11 specimens out of 48) between 18:65 and 16-61 grm., which would place the normal weight a trifle higher than the average. The weight of the Paris specimen is, if snything, in favour of a pre-Alexandrine date.

Edinage of Lydin and Persia (1877), p. 28.

Within the first two series the following groups may be distinguished. I give Babelon's attribution in square brackets after each.

Series I .-

- A. The King's figure is slight, his head inclined a little forward [Dareios L.] See Pl. V. No. 1.
- B. Kidaris usually low; beard more flowing [Xerxes].

 (The distinction between A and B is often very difficult).

O. Coarse features, nose large, heard shaggy [Artaxerses L1]

Ubis Similar to C, but more definitely barbarous, or connected by reverse dies with barbarous obverses.

D. Slim figure with straight nose [Dareios H.].

E. Eye in profile, mose short, cheek full, beard long, V-shaped fold in front of kandys [Arraxerxes II]. See Plate V. No. 2.

F. Beardless; kidans without points (7); kandys of rough material [Cyrus the Younger]; mask of bearded and horned Pan, incuse, at side of mense of reverse. See Plate V, No. 3, where a negative reproduction of the reverse is illustrated, so as to show the head of Pan in relief.

G. Short figure, large head, square beard, straight nose,

H. Short, squat figure; carls at side of beard; nose usually aquiline; V-shaped fold in front of kandys; fabric of come usually small and circular. See Pl. V. No. 4.

H his Ends of hair curling; comparatively short beard; fabric of coin near and circular. See Pl. V. No. 5.

K. High relief: straight nose; long beard. Reverse pattern of wavy lines, approximating to that of Babylonian double-duries. See Pl. V. No. 6, and compare the reverse with that of No. 14, a double durie.

Series II :-

- A. Body without indication of waist.
 - (a) With symbols on reverse. See Pl. V. Nos. 7-9.

(b) Without symbols on reverse,

R. Generally similar to A (b) but with pellets indicating ornament on undersides of sleeves of kandys.

C. Barbarous in style.

D. Coarse style; waist indicated; large nose; exergual line, where shown, is dotted [Arses]. See Pl. V. No. 10.

E. Neat style; three or four annulets on breast of kandys; exergual line plain; fabric of silver resembling Series I. H or Series III. [Arses and Darcios III.] See Pl. V. No. 11.

Series III, and IV. [both given to Artaxerxes III, by Babelon] seem to allow of no division into groups.

The last two series are much rarer than the others, and differ from them in fabric, being as a rule round, instead of oblong in shape, and of much neater

workmanship. I have noticed among these no instance of barbarons style, and only two cases of punch-marking, and these punch-marks are placed on the edges instead of on the faces of the coms. The style of the coms of Series III seems to be characteristically Persian, and there can be no probability that they were made in the portions of the Empire amenable to Greek influence. There is one group (H) among the coins of Series I, which approaches Series III, in neatness and roundness of fabric, and the same is true of Group E in Series II. Daries corresponding to Group H of Series I, are very scarce, and the Series III, and IV, consist entirely of silver, with the exception of the tiny gold coin from the Montagu Collection (now in the British Museum) and its fellow at Berlin. Possibly this marity of the gold pieces points to their having been issued in a different part of the Empire from the others.

In addition to the four ordinary series of Persian Imperial coins there exists a single gold coin. with an obverse of Series L, on which the usual incuse reverse is replaced by the design of a ship's prow; on the side of the prow is the sign if, which is explained as the Carian letter i or eu. Babelon suggests that it was struck by Mennon the Rhodian when in command of the Persian fleet off the Carian coast in opposition to Alexander the Great. In style it certainly seems to belong to the latest period of the Persian

comage.

When we attempt to determine the classification of the coimage according to periods, we find that the fixed or more or less fixed, points are few. One is offered by the hoard of 300 daries which was discovered about 1830 in the Canal of Xerxes at the foot of Mt Athes²⁸ together with about 100 early Athenian allver tetradrachins in the finest possible condition. It is a legitimate conclusion that daries of this group are probably not later than the time of Xerxes. The Paris Cabinet acquired 0 out of the 125 which passed through Borrell's hands 29 and these Babelon assigns to Xerxes, with the sighs which seem to belong to the same group. One would like, before using the Canal provenance as a guide to classification, to be sure that these nine coins are representative of the hoard. In any case, it hardly seems proven that they are necessarily of Xerxes and not of Dareios I. They are certainly of worse workmanship than those which Babelon would assign to the earlier king, but especially in dealing with a series like the Persian, it is masafe to assume that the better coins are always the earlier.

Another point which possesses a certain degree of stability is the

Babelon, Person Achem. p. 15, No. 124.
 Pl. H. 22; Praise, ii. ii. 36, Pl. LXXXVII.
 For other visus, see P. Gardner, Hod. of

Ancient Coinage, p. 334.

Babelon, Press Achem. p. 8, No. 64— Traile, Pl. LXXXVI. 10, describes one. Another was in the E. F. Weber Collection (Hirsch Katul. s.a. 4407, Tat. LVIII., where it is described as having a crass exacts as symbol in field of obverse).

H. P. Borrell, Num. Chron. vi. 1843, p. 133, note 56.

In H. P. Borrell's sele (Sotheby s, 1852, July 12-21) there were only 6 daries (1864-426-31), all from the Canal Heard, and nonof these was acquired by the British Museum. It is of course quite possible that certain specimens afterwards acquired from M. J. Borrell and Woodbouss and Sabatier may have originally some from H. P. Borrell

identification of the daric of the beardless King (Pl. V. No. 3). Babelon has made out a good case for the attribution of this rare piece to Cyrus the Younger 11, although it may seem rash, when we are dealing with so small a piece, to assert that the figure 'a le visage empremt d'un caractère de douceur et d'intelligence qui convient plutôt le un Grec qu'à un Asiatique, while the statement that the kidaris is not surmounted by spikes, like that of the ordinary kings, but resembles the 'toque' of a magistrate, might be upset by the discovery of a specimen on which the top of the kidaris was fully preserved. The workmanship of the coin is certainly more careful than usual. A curious fact may be noted about the reverse; the small horned and bearded human mask 22 which stands beside the original die; it is in exactly the same position on both known specimens. It is clearly the mask of Pan or a satyr.

A third fixed point is provided by the general resemblance to the double duries of the reverses of the group with the figure in high relief (Group K of Series I. Pl. V, No. 6). The reverse shows a tendency to be filled with a pattern of wavy lines, which is on the point of developing into the well known pattern of the reverse of the double duries (Pl. V, No. 14). Since it is now generally admitted that the double duries belong to the Alexandrine period, these duries of Group K must belong to the last Persian king. Dureios III. A number of sigioi, with the ordinary type of reverse, resemble these duries in the relief and treatment of the obverse. There are also a certain number of duries (e.g. one in Mr. Newell's Collection) which, although they do not show the peculiar reverse, resemble the K duries in the purely Grock style of the portrait.

When, however, with the help of these more or less fixed points we attempt to classify the coins within the lines drawn between them, the difficulty of distinguishing groups, and, when they are distinguished, of saying which are the older and which the earlier, still remains as great as ever. Some of the groups—such as Babelon's first three groups attributed to Darcios I., Xerxes, and Artaxerxes I.—merge into each other almost imperceptibly. The coins are frequently so badly struck that it is impossible to say whether two are from the same die, or whether one is copied from the other; and, if the latter is true, the second coin may well belong to a later group than the first.

It would seem that the only direction in which a solution is to be expected is the recording of finds of duries or siglor with other coins

which have been raised to this mentification, see above, p. 119, note

The only two specimens extant appear to be those in Paris and Loudon, which are from the same dies on both sides. Rabelen groups with them a siglos (Traite, Pt. LXXXVI. 18) which is, to judge by his reproduction, so badly wern that the beardlessness of the figure can hardly be assured.

If Press Achim, p. sv. On the objections

Embelon's contradiction of Head's perfectly correct description of this head is perhaps due to his having looked at the comsideways, although even so it is difficult to see a boar's head in the object.

susceptible of being dated. So far only two or three such finds have been noted or at any rate properly described. Four daries were included in the Avola Hoard presumably the earlier of the two hoards which go by that name," and are therefore to be dated before about 360 B.C. The only one of these daries which has been published belongs to the small but well-marked group called E in this Catalogue, and is of a type attributed by Babelon to Artaxerxes II. Minemon. Another darie, from the same reverse die,24 was included in a hoard of Cyzicene staters 35 which Head thinks was probably deposited not much later than 412 B.C. Six however (in one of his letters above mentioned) dated the Cyzicenes of this hoard 'before and after 400. All the coins illustrated by Head belong to von Fritze's 38 Groups II. b, c, or III. a, b, except the coin with the two eagles on the omphalos, " which von Fritze places in his Group IV.; his upper limit for that group is about 410 n.c. Wroth places the same type in his third period (480-400 s.c.). We may not unreasonably assume that if it belongs to von Fritze's fourth group, as is indicated by the coarse granulation of the reverse, on which he bases his classification, it must come fairly early in the group, probably before 400 s.c. The evidence of these two finds, taken together, goes to show that the daric in question was earlier than about 400 B.C. Six remarked that this particular type of darie 'a été recueilli en nombre dans la grande trouvaille de Cyzicènes' in question; if that is so, and all were in as good condition as the one illustrated by Head, it is probable that this type of daric belongs to the last quarter of the fifth century, but that it was struck by Dareios II. Nothos (424-405 n.c.) rather than by Artaxerxes II. (405-359 R.C.).

A second Sicilian hoard, from Mammanelli near Avola, has recently been described by P. Orsi. It has unfortunately not been secured in its entirety. It contained from 300 to 400 gold coins, viz., about 100 hectolitra of Syracuse, about 100 pentekontalitra of the same mint, and about 100 daries. Of these last Orsi illustrates one and describes five, attributing them all to Artaxerxes I. Makrocheir (465-425). they would therefore belong to our Group C. To judge however, from the casts which he has kindly sent me, it would appear that one of them is of our Group E, with the distinct

^{**}See Miss Baldwin in Zeit für Num.

**Exxii 1915, pp 4-6 on the two hoards. It is supposed that what was by Libbecke taken for a single hoard deposited about 320 s.c., was really made up of two, the surfler of which, containing the gold coins, was buried about 390 s.c. One of the duries in question (there were four) is illustrated by Löbbecks in Zeit für Nem xvii. 1890, Tal. ci. (wrongly numbered x.) I. Recently this field has been discussed by P. Orai in Atti e Mem dell 1st. Ital. de Nem. iii. (1917), pp 6 ff.

^{*} This reverse die, sport from its distioctive markings, is recognisable by the

granulation at one end of the menss. Sir Hermann Weber possessil another duric from the same reverse die, and one was sold at Sotheby's min, 7 Dec. 1915, Let 1:

Sotheby's min, 7 Dec. 1915, Let 1, ³⁸ R. V. Hund, Num. Chem. 1876, p. 286, Pt. VIII, 1.

^{**} Nomisma, vit.

Wenn Ghrom, Joc. vol. Pl. VIII. 6; von Vritses, loc. vii. Tal. VI. 32

⁴⁶ Atti e Mam. dell' Ist. Bal. de Num. iii. (1917), pp. 1–39.

^{**} He assumes Babelon's classification to be substantially correct.

reverse already noted in other specimens of that group [above, p. 123, note 34]. The other four are two from one pair of dies and two from another. Neither pair seems to me to belong to 'Artaxerxes L,' i.e. to our Group C; in their comparatively refined style they seem to me to be of a distinct type, approximating to E more closely than to any other; they show the V-shaped fold in the kandys. The find, according to Orsi, was buried in the last years of the fifth or the first years of the fourth century; the daries show more or less signs of wear. The weight of each of the five coins is 8.3 grammes.

So far the evidence does not violently contradict any proposed classifications. But when we come to the hoard of coins described by E. T. Newell," we obtain some important data, which throw a new light on the question. It will be observed that in the classification given above the sigloi of Series II. are divided into four groups (excluding purely barbarous coins); on two of these groups (A, B,) the body of the king is represented without any indication of the waist (e.g. Pl V, No. 7); on the others (D, E), the attitude is less stiff, the waist is marked, and more detail is displayed in the drapery (e.g. Pl. V. No. 10). Now in Mr. Newell's find only the waistless groups were represented "; and the evidence of the other coins in the heard proves conclusively that all the sigloi present were struck before about 380 g.c., the date of the deposit. Further, to judge by their worn and punch-marked condition, it is unlikely that any of them were struck later than the fifth century. This suggests that the 'waistless' varieties belong to the earlier kings, before the time of Cyrus the Younger, and also that the other varieties of Series II belong to the fourth century, Further confirmation of this view comes from the hoard published by J. G. Milne, st which consisted entirely of sigloi of Series I. of the earlier, sixth-fifth century, types (Groups I. A and I. B in our classification), and sighii of the 'waistless' types of Series II. Yet again, out of eight coins obtained at Panderma, from a small hoard said to have been found at Miletopolis, seven are of the earliest types of Series I. (A or B), and one of the waistless type (Series II. A or B, much worn)42 Finally, Mr. Newell provides a similar slight confirmation of the early date of the 'waistless' type. Of four siglor which he bought at the same time from an Armenian dealer in Paris, and which together with about a dozen others not bought, evidently came from a find, one is of the 'waistless' type, and the other three all of early types.

correct. The eight coins still available for examination passed into the possession of Mr. E. S. G. Robinson, who presented two of them to the British Museum. Only one of the eight is without a punch mark, and on no less than six of the others we find the same mark. No. Six in the Table, p. 126. It would appear therefore that this mark was impressed by the person who had the soins not long before they were buried.

[&]quot; Num. Chron. 1914, pp. 1 ff.

⁴⁴ A siglor which Mr. Newell received from Dr. Hayner's family after the publication of his article, and which by its appearance undoubtedly belonged to the "Cilician find," was also of the "waistless" type.

⁴² Num. Chron. 1916, pp. 1 ft.

^{**} Mr. P. W. Hashek, who obtained the come from a money-changer, is not considers that the statement of their processiver was

This appears to exhaust the present possibilities of chronological classification. It seems clear that types (i) King with spear and (ii) King with dagger continued in use throughout the whole course of the coinage, and that types (iii) King drawing bow and (iv) King (ii half-figure which are unrepresented in the finds of early sigloi-belong to the later period of the coinage, since they approximate in fabric and style to those varieties of Series I and II, which are not represented in the finds of early sigloi. The comparative rarity of punch-marked coins of this series admits of explanation if this chronology is adopted, and if, as I believe, the punchmarking was chiefly done in the Eastern Mediterranean.44 It was only towards the end of the fifth century that the Persian Satraps began to make issues of any importance, and it was only in the half century from about 386 to 383 that these issues were so numerous as to supply the wants of the population under satrapal control. Until them sigloi must have circulated in Asia Minor and Syria in great quantities and it was in this earlier period, before the rise of the great satrapal comages, that the punch-marking was chiefly done. But in the fourth century the import into Greek lands of the Persian sigloi must have been greatly diminished, the demand being supplied by the local and satrapal money. Hence these later sigloi are not punch-marked to anything like the same extent as the earlier.

Here we must leave the question of chronological classification. As regards the attribution of the various groups to individual kings, apart from the slight indications which have been noted above, the less said the better.

Mr. Milne has been the first to call attention to the extremely interesting groups of coins with small symbols, sometimes in relief, sometimes incuse, on the reverse. These all belong to the waistless variety of Series II. (Pt. V. Nos. 7-9), and are therefore, if our chronology is right of the fifth century. Mr. Milne has made the very plausible suggestion that the lion'shead (Pt. V. No. 7) may indicate the mint of Sardes. The sighor similar to Pt. V. No. 8, with what appears to be a curiously stylized lion's scalp, can hardly be separated from the others. Of the symbol on the coin illustrated in Pt. V. No. 9, I have no explanation to offer.

The Panck-Marks (Fig. 1). There can be little doubt that these were impressed on the coins by local bankers or money-changers, who were also doubtless responsible for the stabbing and cutting of the coins with the object of testing their purity. One would have thought that a single cut

[&]quot;This is also Babalon's view: Person Achter, p. 81.

With the exception of the farm attribated to Cyrm and, possibly, of one signe.

Which must be strictly distinguished from the immes symbols mentioned above, which form part of the reverse dies. For convenience of reference, the penchmarks which occur on come which I have been able to examine, together with a few others drawn from mats, are collected in the accompanying.

table (p. 126). It must be remembered that these marks are usually very imperfectly impressed, and it is consequently often impossible to recognise with certainty the design, or to draw it correctly. The drawings here given, shough not by a professional draughts man, are made with a view to showing no more than is visible on the original or can be reasonably inferred by comparison with other specimens.

would have been sufficient for this purpose, but some coins have been reduced almost to fragments. In spite of the occurrence among the punch-marks of

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Fm. 1.—Puben wangs on Persuas Sumon.

designs which suggest coin-types, such as the tortoise (No. 100 in the table) and the Aeginetic reverse design (No. 62), it is improbable that any of the

punch-marks were impressed by mint-authorities, although it is a reasonable conjecture that these Asginetic-looking punch-marks were more probably impressed in Aegina than elsewhere. Such a head as that in No. 112 cannot have been designed by any but a Greek artist. (I beg the reader not to judge of the style of the original by the drawing.) The tetraskeles (No. 27), triskeles (Nos. 22-26 and 186) and monoskeles (Nos. 18-21) seem to point to Lycin; and this is partly confirmed by provenance, although the characteristic contral ring is absent from the tetraskeles and triskeles. Babelon has noted the letters OE which are found on Lycian coins, Certain marks, such as the varieties of anith (Nos. 147-151) and forms like Cypriote signs for bu, si, and ro (Babelon, Perses Achem. Pl. XXXIX. 8, and our Nos. 121-123), or Phoenician letters gimel, yod, pc, mcm (Nos. 124-132) seem to indicate the coasts of Cilicia and Syria and Cyprus as a source. Rayson,40 it is true, held twenty-four years ago that some at least of the punch-marks were Indian in origin, and included Brahmi and Kharosthi characters. But of the former, his yo, if turned upside down would serve for the Cypriote si (No. 121), his we is more probably a more or less mutilated anth, his kha is the Lycian monoskeles (Nos. 18 f.); his pa, if turned apside down, may be the Phoenician p (No. 128); his jet may be the Greek E (Nes. 117-119). He is inclined to think that his go (No. 140). is more probably to be completed as the symbol No. 81; but, as a matter of fact, it must be conceded to him that the form as given is correct. This exhausts his list of Brahmi characters. Of the Kharosthi his ma is, he admits, in some instances at least, probably a crescent (Nos. 45 ff.); his me is a kind of flower (Nos. 70 ff.); his mam is really the symbol No. 173. his ti may equally well be a Phoenician mim (No. 132), while his do and ha (Nos. 133 ff.) are not sufficiently characteristic to afford strong evidence on either side. Newell 49 has added one or two more to this list of alleged Indian characters. No. 138 in our table he compares with Kharosthi ta. but there is nothing very close to the form in Bühler's table. No. 139 drawn by him without the complete loop on the right hand) he compares with Kharosthi gha; as here drawn it comes much closer to Brahmi cha-'upside down'. His Nos. 32 and 16 I take to be floral in origin, and less angular than he has depicted them; his No. 24 (our No. 141) is not really very like Brahmi khi; nor do I quite see with which Brahmi sign he would identify his No. 31; his No. 37 is hardly characteristic enough to serve as basis for argument. On his coin No. 94 he says there is an elephant punch-mark, but this is not visible on the cast before me, unless his No. 12 is meant for it; and that appears to me to be a geometrical design of some kind.

that the little table illustrating Mr. Newell's article in News. Chron. was re-drawn in England for purposes of reproduction, and may not always do justice to his injention.

Siebzehn Talein zur Ind. Paliographie* (Grundrum dir Indo-Arischen Philologie und Alternationale, 1896).

[#] Person Achem, p. xt and p. 7, No. 58.

January of the R. Asiatic Society (1895), pp. 865 ff. I understand that he too longer maintains this view, at least in its entirely.

by Nam. Chres. 1914, pp. 27 I. I have thesen those which are impulsed in our table from cents of his come. It should be said

At the best we may grant that there is occasional coincidence between the punch-marks and the forms of Indian letters, and that it would be very satisfactory if their identity could be proved, since many marks otherwise uninterpreted would acquire significance. But we may still ask for more evidence that these Indian letters were used to any extent by the Indians in marking their own silver coins. Other marks they used in plenty, but

these apparently not at all, or only to a very limited extent.

Of the three symbols which Rapson instances, the 'taurine' (Nos. 40, 41) would give most support to the Indian theory, if it could be shown that this astronomical symbol was peculiar to India. But there seems to be little doubt that it is not so confined and, indeed, that its home was rather in Eastern Asia Minor, Northern Syria, or Cyprus 51 Nos. 60 and 58 on the other hand might be Cypriote or Lycian letters (though they are more probably mere patterns), and the triskeles, though it may be nearer the Indian than the Lycian form, is too widely diffused a symbol to carry much force in the argument. It is worthy of notice that three specimens marked with the triskeles probably came from Lycia, since they were once in the collection of Daniell and Graves, and one marked with the tetraskeles came from a Smyrniote collection. The tetraskeles occurs on one of Mr. Robinson's little find from Miletopolis. Finally, of all the sigloi in the British Museum, only five come from Cunningham or the India Office, and of these it is significant that only one is punch-marked. There are in the British Museum no other sight of definitely Indian provenance, though there are many from Persia

A day spent in examining carefully the collection of Indian punchmarked coins in the British Museum, while the punch-marks on the sigloi were still fresh in memory, the drawings for the accompanying table having just been completed, has left the distinct impression that the two sets of punch-marks have nothing whatever to do with each other. There may be certain enrious coincidences as between a mark on one of the Indian coins and No. 153, although the Indian example does not show the booked handle of the blade (or stalk of the leaf, whichever it may be). But the point to remember is that the leading characteristics of the two sets are quite different; the forms chiefly characteristic of the siglor, such as the floral symbols (Nos. 68 ff.), the ankh (Nos. 147 ff.), the bull's head and its derivatives (Nos. 105 ff.) occur with extreme rarriy or not at all on the Indian coins; and forms characteristic of the Indian series, such as the Stupa, or Chaitya, do not occur on the Persian.

back (No. 42) is also probably a himz symbol see Rossher's Lex. e.e. Sie, 900.

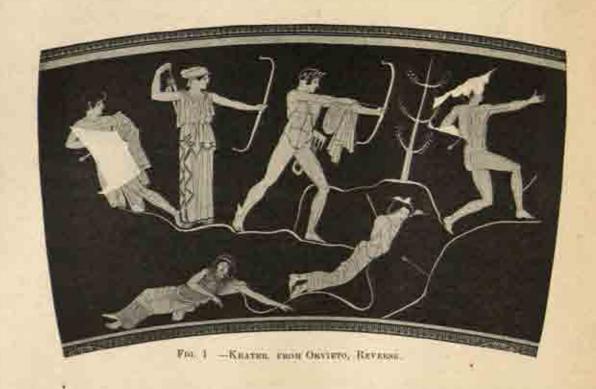
²² Mrs. Manufer refers, in this connexion, to the Cypro-Mycenseau cylinder, J. H. N. 222 (1901), p. 169, Fig. 147. This is an example of the orb surmounted by a cree-ent, which is doubtless the origin of the cyclical and this crescent cesting on a globe seems to be of Babylonian or Mesupotenias, origin. The punch-mark with the two crescents back to

At As a matter of fact, I do not find on the Indian pumb-marked come in the British Museum anything corresponding exactly to the form on the rigidi except in the case of No. 22; Kapam appears, from his remark on p. 896, to have not with the same difficulty.

It would probably be possible with a little ingenuity to find a number of analogies between these punch-marks and signs in various other scripts. Thus Nos. 52, 58, 117, 120, 124, and 133, and Mr. Newell's No. 37 (inverted) could all be interpreted as Lycian spiritus asper, somant m, t, ε, λ, σ and τ respectively and some of the same, of course, as pure Greek; or again No. 142 as Hunyarite γ, while Nos. 30 and 143 both suggest Hunyarite symbols. But it seems idle to lay stress on these resemblances, which may be putely accidental.

G. F. Hita.

be the the other hand the alleged Lycian ? Babelon, Person Action, p. 41) is really No. (Fellows, Coins of Assista Lycia, Pl. VIII. 2: 172 in our table.



MIKON'S FOURTH PICTURE IN THE THESEION.

SINCE the first publication by Robert! of the magnificent krater from Orvieto, which is one of the proudest possessions of the Louvre, its style has been brought in connexion with Mikon, more on account of the figures half disappearing behind the rocks, than on the rather problematic assumption that Mikon's Argonauts might have inspired the artist in the more extansive picture on the side of the vase opposite to the death of the Niobids. This last scene (Fig. 1) is perfectly clear, and would not be in need of any new commentary if Robert had not committed the error of taking the arrow, near the handle, as fallen (freccia caduta per terra), holding this to be a piece of thoughtlessness, rather uncommon with Attic ceramists, and if Hauser had not gone even further, blaming the painter for so absurdly making an unerring god shoot an arrow and lose it. Both of course are wrong, and it is the more surprising that he who understands what escaped Robertnamely that Apollo shooting and Artemis taking a new arrow suggest to our mind the presence, though unseen, behind the hills of the missing sons and daughters of Ninbe-fails to understand that the painting is not a poor extract from a larger composition, but that it was precisely the perhaps somewhat extravagant intention of the artist to suggest more than he shows.

Annali dell' Instituto, xlv. 1882, p. 273.

Furtwangler und Reichhold, zu Taf. 108, S. 250.

It is not only to defend the vase-painter, or Mikon as his model, from unmerited blame, that I claim his right to be understood when he suggests the unseen to our mind's eye. It is principally because we shall need this understanding of his intention to elacidate the meaning of the unexplained

picture on the other side of the vase 3 (Fig. 2).

Robert was the first who supposed this scene to be taken from the story of the Argonauts painted by Mikon in the Anakeion at Athens and briefly described by Pansanius in these words: Μίκων δὲ τοὺς μετὰ Ἰάσονος ἐς Κολχους πλευσαντας: καὶ οἱ τῆς γραφῆς ἡ σπουδή μάλιστα ἐς ᾿Ακαστον καὶ τοὺς ἔππους ἔχει τοὺς ᾿Ακάστου. As it did not escape his notice that Pansanius seems once more to refer to this picture when he mentions the names of the daughters of Polius; Μίκων δὲ ὁ ζώγραφος ᾿Αστερόπειὰν τε είναι καὶ ᾿Αντινόην ἐπι ταῖς είκοσιν αὐτῶν ἐπέγραψε, he assumed that what we have would be only part of the more extensive original

It has been objected by others that as neither the horses of Akastos nor the Pelinds are to be found in our scene and nothing points decisively to the Argo, not to speak of Iolkos, it brings considerable pressure on our

good will to accept this combination.

Nor have Percy Gardner's or Girand's bettered this relation in transplanting the Argonauts to Kyzikos or Lemnos, which completely severs all connexion with the painting of Mikon in question, even though they can account for the absence of the Argo herself. Girard's view has the advantage of harmonising with the helplessness which seems to bind the greater majority of the men, here assembled, to the spot; and he certainly has an advantage in this respect over Hauser, who wishing to remain in closer contact with Mikon, would make us believe that these heroes are thus inactive spectators of the battle of Marathon, as by a very unsatisfactory argument he maintains Mikon may have depicted them in the famous painting, which others on better grounds give to Panainos. Nevertheless Hauser is right when he adduces the absence of the Boreads against the whole Argo-theory and that of the Lemnian women in particular against the views of Girard.

We should only have to confess our ignorance if Gardner had not shown the way, though he has not followed it up:

I have to thank the publishers, F. Bruck-mann A.G. at Mmich, for their kind psemission to reproduce this plate.

^{*} L xriii L

⁴ vm. u. 2.

^{*} J. H. & z. 1889, p. 117.

^{*} Remai des Études Grecques, 1894, p. 360, Monuments Grecs, 1895, p. 7.

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But before following up on the line be has indicated, let us once more consider what the work itself tells us. The scene takes place at the top of a rocky slope, behind which one single figure, only visible to the middle and reduced in size by the distance, lifts up his hand in astonishment at something that is hid to our sight by the rocks. In a gap between these, Herakles stands, γυμνός, that is to say with neither helmet nor cuirass, shield nor greaves, though he is armed with club and bow and sword, bears a lion-skin and wears a laurel wreath in sign of victory. Around him stand, in addition to his patron-goddess, who never leaves him, three men, of whom one hands him a helmet, one takes up a shield, a third grasps at a lance, we may suppose with the same intention. At his feet sits a young man



with despondent look, who with his right hand holds his leg as if he were tired of sitting, like Hektor in Polygnotus Nekuia — καθεζόμενος ἀμφοτέρας έχει τὰς χείρας περὶ τὰ ἀριστερὸν γόνυ ἀνιωμένου σχήμα ἐμφαίνων. Under him his comrade, to whom he beckons with his left arm, rises, a couple of lances in his hand, not without effort, from his more prostrate situation. At the left a man, whose shield is charged with a coiled serpent, turns away very much in the manner of the Thracian who, while his comrades give themselves over to the magic of the music of Orpheus, goes away in disgust.

⁴ Paucanias, x xxxi, 3,

^{*} Fiftinth Wincichmanagorogram, Furtwingler, t. it.

The scene is closed on the right and the left by two youthful heroes, wearing piles, one of them holding a horse: these are generally thought to be the horse-taming Kastor and his brother Pollux. As they belong together, it seems probable that we have to see the locality as a hollow, the order in which the figures appear having to be considered as a circle, nearly closing here, as on the semicircular bases of the time at Olympia and Delphi.

Now Gardner has recognised in the two sitting youths Theseus and Peirithous, and be is right. Only if in Hades the shades find their punishment in the performance during eternity of the impious act committed during lifetime, we are not justified in reversing this idea and hoping to find these alive in the scheme that characterises their eternal sufferings.



So if Peirithous is sitting here for ever and Thesens rising from a cest that seemed endless, it can only be the valley of death that Herakles enters, and these he meets can only be shades, with the exception of Athene, who stands by him under the earth as she stands by Thesens at the bottom of the sea on the cup of Emphronius.

And if amongst these the Dioskuri take a prominent place, do not let us forget that Pindar about the same time dwells at length on the touching legend of brotherly love, that made the heavenly Pollux give over half his Olympian life to Kastor and partake during the other part of his existence in the infernal world, as Zeus sums up in these words: 10

^{*} Spe also the end is Pyth. x) wh nev wer 'Olópkou. In New 2, 100.

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Εί δε καστγνήτου πέρι μάρνασαι, πάντων δε νοείς άποδάσασθαι ίσον, δμισυ μέν κε πνέοις γαίας ὑπένερθεν ἐων, δμισυ δ' οὐρανοῦ ἐν χρυσέοις δόμοισιν.

It is true that in the painting of Polygnotus, Theseus holds two swords, both his own and that of Pairithous: 11 Θησεύς μέν τὰ ξίφη τὰ τε Πειρίθου καὶ τὸ ἐαυτοῦ ταῖς χεροῖν ἀμφοτέραις ἔχει, ὁ δὲ ἐς τὰ ξίφη βλέπων ἐστὶν ὁ Πειρίθους, but on a vase from Ruvo at Karlsruhe 12 the arms in the hands of Peirithous are lances, and so also on the other 12 where the intruders are being bound. The poetic source upon which the painter has drawn will have had the word ἔγχος, which is used by the opic writers to designate a spear, by the tragic poets for a sword.

It is hard to put names to the other figures, but it would not have been easier to name those in the Nekuia of Polygnotus if it had come down

to us without inscriptions.

One would like to be able to recognise at least Meleager, as we know of his intercourse with Herakles in Hades, but neither the youth wearing a helmet, to whom the hero turns nor the bearded man with the petasos, who, even as Peirithous, so clearly shows the broken eye and the distorted face of those that, eating dost, grind their teeth, nor any other has the least token that might characterise him as such.

They are as anonymous as the souls of the miserable humans Herakles

meets according to the words of Bacchylides; 14

ένθα δυστάνων βροτών ψυχὰς έδάη παρά Κωκυτοῦ ρεέθροις.

The only emblem that may give us any close is the snake on the shield of the man who turns away. This dragon might indicate Kadmos or Jason, but I fail to see what reason the founder of Thebes should have to be angry with the hero who was the glory of his town, or the leader of the Argo with the man he left behind.

Iphitos has perhaps the most cause for wrath against Herakles, as the otherwise spotless here has sinned gravely by the murder of his guest, but though the serpent would well fit with his chthonic nature, I am afraid this was not so apparent to the contemporaries of Mikon as to us. The same reason prevents me from thinking of Enrytas, Hippokosm or whatever the different names may be in different regions of those who fell in the expedition of Herakles against their strongholds with the exception of Periklymenos, whose name Robert has used in describing this figure. He too is a personification of death vanquished by the rescuing might of the god-like here, but death lurking in the bite of a snake, the grip of an eagle, the

[&]quot; Paus X, xxix, 0.

¹² Arch. Zeit. 1884, Taf. 18; Roscher iii. Sp. 1786, Abt. 12.

in Appl. Zeit. 1884, Taf. 15; Roscher iii.

Sp. 1781-2 Alit. 10.

¹⁶ v. 63-L.

³⁵ Netain, p. 40.

sting of an ant or a bee or the poison of a plant, the weight of a falling tree. So at least I understand what Hesiod must have meant, according to Eustathius' commentary on the Odyssey in and in the lines preserved by the scholiast on Apollonius:¹⁷

> Περικλύμενου τ' άγέρωχου δλβιου, οἱ πόρε δώρα Ποσειδάων ἐνοσίχθων παντοῖ, ἄλλοτε μὲν γὰρ ἐν ὀρνίθεσσι φάνεσκευ αἰετός, ἄλλοτε δ' αὖτε πελέσκετο, θαθμα ἰδέσθαι, μύρμηξ, ἀλλοτε δ' αὖτε μελισσέων ἀγλαὰ φῦλα, ἄλλοτε δεινὸς ὅ φις καὶ ἀμειλιχος. εἴχε δὲ δώρα παντοῖ οὐκ ὀνομαστά, τὰ μιν καὶ ἔπειτα δόλωσεν βουλη 'Λθηναίης.

So the serpent may point to Periklymenes and Robert may have hit the mark, though we must needs remain somewhat diffident, as the emblems on the shields are rarely so speaking as a swan on that of Kyknos. The serpent on the shield of Menelaes in Polygnotus' lineapers is considered by Pausanias is in a rather far-fetched way to be a remembrance of the portent in Aulis.

If it nevertheless seems probable that this scene is played in Hades, it is no longer difficult to suggest what it is that the warrior outside (whom I presume to be Iolaes, the faithful comrade who followed even to the gates of hell, though no further), sees that excites his admiration and that he suggests to our mind by his wonder. It is of course the vanquished Kerberos, as must have been evident to all spectators, who were aware of the circumstance of this most famous victory, which had to be obtained unarmed (that is to say without shield or iron arms), but was won, according to the scholiast on Homer 19 by the hero using his lion-skin as a shield, and flint-pointed arrows, according to others with his club. The artist who thus reminds us of the wondrons feat, which he does not want netually to show. makes it more obvious by the returning of his arms to Herakles. If he does this in a somewhat north way, seeing that they are given back here by the inhabitants of the land of darkness into which the victor has only just forced his way, we must understand that he could hardly do it in any other, and that this is certainly not in discordance with the methods of his age, as Robert m has shown by similar examples.

Now, if we reconsider the question whether we know of a painting by Mikon that would answer to our purpose, we will find exactly what we want in a suggestion of Brunn, who, with his thorough knowledge of the style of Pausanius, suspected a fourth picture of Mikon in the Theseion at Athens, where, next to his famous deeds in the struggle with Centaurs and Amazons and the first exploit of Theseus (known to us principally from this passage,

Baechylides, and some vases), his end would have been depicted.

It cannot of course, be his death at Skyres which he means, but only

^{14 1685; 61,}

²¹ act 1, 156.

IN A. SEVI. 3.

⁻ H. v. 355.

[&]quot; Eild and Leed, p. 20.

[&]quot; Genchichte der Gr. Kunntler, ii. p. 34.

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the descent into Hades which he has in view, if we look at the words of the author ¹¹⁰: ἐς δὲ τὴν τελευτὴν τὴν Θησέως πολλὰ ἦδη καὶ οὐχ ὁμολογοῦντα εἰρηται· δεδέσθαι τε γὰρ αὐτὸν λέγουσιν ἐς τόδε ἔως ὑφ' Ἡρακλέσινς ἀναχθείη. This is all he would say about the painting in the slovenly way he treats the antiquities of Athens. What he further adds does not pertain to Mikon's work, but is meant merely as a historical rectification of the miraculous and hence incredible logend which the painter has followed. The adventures of Theseus for our author have nothing supernatural. We find him enhencerising the descent into the Acherontic regions by locating them in the Thesprotian Kichuros in like manner, if not quite as clumsily, as Plutarch ²² does when he makes Aidoneus into a Molossian king whose wife was called Phersephone, whose daughter was Kore and whose dog Kerberos had to fight the suitors of his child.

What the literary source may be from whence Mikon took his subject will be difficult to decide, since we know so very little about the Herakle's and Theoris which Aristotle tells us were of so poor artistic merit, and no more about Hesiod's poem mentioned by Pausanias thus; καὶ ὡς Θησεύς ἐς τὸν Αιδην ὁμοῦ Πειρίθφ καταβαίη. One thing only seems evident, vir. that the Minyas upon which Polygnotus must have drawn, and which, according to Pausanias. did mention both Theorems and Peirithous in Charon's furry boat, cannot come into question, as our painting lacks all Orphic colour. Panyasis has the best claims, since he speaks of the heroes as not bound but grown to the rock only this rock is shaped into thrones: Hanúasaus ĉe ἐποίησεν ὡς Θησεύς καὶ Πειρίθους ἐπὶ τῶν θρῶνων παράσχοιντο σχήμα οὐ κατὰ δεσμώτας, προσφύεσθαι δὲ ἀπὸ τοῦ χρωτὸς ἀντὶ δεσμῶν σδίσιν ἔψη τὴν πέτραν.

At all events, if we consider the exposition Pottier to has given, with no less wit than common-sense, of the way in which Theseus supplanted his friend Hernkles in Attica, we shall have to reckon with the existence of a jingoistic production of national poetry, which could not be very much

antiquated in the time of Mikon.

The story itself is one version out of many of the same phenomenon. Thesens, born from the sea, be its name Aigens or Poseidon, and the clear sky, Aithra, makes his first appearance, lifting up the dark rock, with a glittering sword and golden sandals. He dives into the deep water for the ring of Minos, to reappear with the wreath of Amphitrite. He descends into the Labyrinth, and having slain the ball of Minos, the judge of the dead, sleeps with his daughter, the all-hallowed, Ariagne, Cretan Ariadne, till Hermes leads him away, and he leaves her for her shining sister, Phaidra.

Study read in the Institut de France, Oct. 25, 1900 (Revue de l'Ast Aurieu et Moderne).

⁷⁴ Paus L kvii, 4

⁼ Thesens, xxxi, 6.

⁼ Pestics, viii.

³⁰ IX. MENT. 5.

x. coviii 2

¹⁰ Paul, L. ERIS. O.

^{21 /} Pourquoi These fur l'ann n'Herrale ;

²⁸ Moa, d. Inst. xi. Pl. XX. The vine permits no doubt that the sleeping woman is Ariaduc, and the movement of Thesesis that he is studing away.

He goes down to the regions of Hades for the rape of Persephone, and is brought back to daylight by Herakles. He throws himself from the steep

rocks of Skyros into the sea.

Why should Mikon out of these four parallel tales about the setting sun and its passage through the vale of darkness have chosen the first and the third! The second may have been thought antiquated, and the last not a very sympathetic double of the first. The descent to the regions of Acheron allowed the painter a no less large scope for his fancy than the meeting in the realm of Poseidon.

And if we see his four pictures in the light of Pottier's political insight we find them glorifying the young Athens as a child of the sea, depicting its struggle against the barbarians of Asia in the strife with the wild Centaurs and the battle with Oriental Amazons, no less than the similar deeds of the Dorie Herakles; and symbolising the most adventurous act of the State, the help lent to the hopeless enterprise of the revolted Ionian, which leads ultimately to the capture of Athens by the inexorable enemy, from whom it is only released by Dorian help. It looks as if Kimon, with his Laceducmonian sympathies, sought with the help of such a myth to impress this fact on the Athenian mind. It is he who brought the pretended bones of the here to Athens and arranged his holy place there, as Pausanias" has it ο μετ δή Θησέως σηκάς 'Αθηναίοις έγένετο υστερον ή Μήδοι Μαραθώνι έσχου, Κίμωνος τοῦ Μελτιάδου Σκυρίους ποιήσαυτος άναστάτους, δίκην δή τοῦ Θησέως θανάτου, καὶ τὰ όστὰ κομίσαντος ἐς 'Αθήνας. So it will have been this statesman who deliberated with the painter about the subject he had to depict.

Mikon was the elder contemporary of Polygnotus, a fact I have been awant of as long as I have been interested in these questions, and which I am happy to find at last correctly set forth by Klein.20 The paintings on the walls that surrounded the so-called tomb (planned, be it about 473, according to the last surmise, or in 468; the date accepted formerly) must be anterior to his other works which we know of as in the Anakeion, where Polygnotus, and in the Stoa Poikile, where at least this painter and Panainos worked beside him. Von Wilamowitz 11 and Robert 27 date the paintings in the Delphian Lesche, no doubt rightly, between 458 and 447. and so the relation between Polygnotus's Nekuia and Mikon's deliverance of Theseus must needs indicate that the former was dependent on the latter. Still, it is worth while to add to Cardner's comparison of Theseus and Peirithous, which gave us the key to the problem, the already observed more formal likeness of the Penrithous to the Delphian Hektor, and that of the man with the petases to Antiloches with his foot on a rock : 'Arrixoxos τον μέν έτερον έπε πέτρας των ποδών. This last motif, which found its development in sculpture only at the bands of Euphranor, Skopas, and Lysippos, seems to be an invention of Mikon, as we find it also in an

^{**} Larie (L

er Mikon und Panainos, Mikon umb Parontos, Jahrbach des Lustines, xxxiii. 1918.

p. Lift.

Honovische Untersuchungen, 2234 19.
 Nebuig, p. 76.

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Amazon 55 on an early white-figured lekythos, which must be a reminiscence of one of his Amazon-battles.

The man, again, who turns away from Herakles, finds an analogy in the Klymene of the Lesche of whom Pansanias ³⁴ says that she turns her back to Prokris (παρὰ δὲ τῆν Θωίαν Πρόκρις τε ἔστηκεν ἡ Ἑρεχθέως καὶ μετ αἰτῆν Κλυμένη, ἐπιστρέφει δὲ αὐτῆ τὰ νῶτα ἡ Κλυμένη), because as the Nostoi relate, the latter was the first wife of Kephalos. One would rather expect: ἐπιστρέφει δὲ τὰ νῶτα αὖτη τῆ Κλυμένη as it is not Klymene but Prokris who should feel wronged. And this is partly suggested by the manuscripts, which have these words, with the exception of the two last, as I give them. Be this however as it may the turning away is the motif that serves us for comparison.

Lastly I mention, though not without some reserve, the feet of Kallisto resting on the knees of Nomin. 7005 πόδας δὲ ἐν τοῖς Νομίας γόναστα ἔχει κειμένους, which seem to remind us as Gardner has observed, of the feet of Peirithous hanging over the knee of Theseus.

Of even more importance than these signs of influence, though they may to a certain extent confirm our view that we have a copy of Mikon's Hades before us, is the comparison of the planning of his locality as we have understood it, with the much larger disposition of the different circles in Polygnotus's Orphic hell.

But I am nearly forgetting that, to my knowledge, no attention has yet been drawn to the plan of this first inferno known to us as a forerunner of Dante's

If we analyse Virgil's descriptions of the different sections through which Anchises goes, we find, according to Norden, between Acheron and the innermost Hades, first (v. 323 Cocyti stagno alta . . . Stygiamque paludem), the åwpor, the uninterred and the infants, then (v. 427) in limine primo the βιαιοθάνατοι, those that died a violent death, as: (v. 430) hos invita, the falsely condemned; (v. 434) proxima deinde . . . loca, the suicides; (v. 441) lugentes campi, those who died of love, and (v. 477) area . . . ultima, the heroes that fell in war. In Hades itself are three distinct regions: for those that suffer eternal pain, the Tartara (v. 543); for the eternally blessed, the vales beatas (v. 639); and thirdly for those that go through forgetfulness before entering upon a new existence, Lethaeumque domos placidas qui prisentata amnem (v. 705).

The regions of Polygnotus are far from identical, but there is a likeness even as there is some affinity to Nardo Orcagna's Dantesque hell in Sta Maria Novella at Florance. In the Lesche the outermost circle is that of utter darkness and contains besides probably Eurynomus, the demon of decay, none but those that suffer eternal punishment, the parricide, the sacrilegious and Tityos to the left, Sisyphus and Tantalus to the right. Parts only of this region fill up the corners of the painting, separated by both ends of the segments that are shown of the following ring, a kind of

spent their lives in idleness or who, missing the salvation of the mysteries, have struggled for good in vain, carrying water in a cracked vase. This stretch is crossed by Charon's boat that carries the initiated. Farther in to the right and the left the lands of sorrow appear, throughd with women who suffered for love. The innest circle is peopled by the heroes who fell in war. It may be observed that even Theseus and Peirithous sit by them, not amongst the great sinners as in Virgil. Finally a quasi-central position is allotted to the poets and specially to Orpheus.

This disposition must have been indicated by lines tracing the hilly slopes and accentuated by a colour-scheme that probably sufficed for a disposition into large groups, without preventing the eye from finding an equal interest everywhere, in the corners as well as in the centre; a decentralising principle of composition justly preferred for paintings intended to decorate a

large surface, that is to be seen from a short distance.

Mikon, no doubt, had a less complicated scheme, but still it is remarkable, in view of the continuity of tradition in the development of ancient art, that his composition shows even the same circular disposition as we have observed in the place he gave to the Dioscuri.

All these reminiscences, of course, would not by themselves prove our vase-painting to be the deliverance of Theseus by Herakles, but they go a long way to sustain our conclusion, reached by other means, that Mikon

painted Hades before Polygnotus

On the other hand, the painting in the Theseion, whether shortly after 473 or 469, shows the closest relation to the Hoplitadromos of the Somzée Collection [Taf. III.-V.), so nearly aking to the Pelops of the Olympian pediment, which Furtwangler has suggested was copied from an original in the same pose as the statue by Mikon of Kallias the pankratiast, who won his Olympian victory in 472. He says if: Der rechte Untercurm war erhoben und eine Stütze verband ihn mit der Brust. Das passt für ein Halten von Lanze oder Schwert durchaus nicht. Ich kann mir duse Haltung nur erklären, wenn die Rechte etwa den Gestus des Adorierens machte

So the man who holds out the belief to Herakles has nearly the same schema. Still closer is the resemblance of our Pollux, his right hand on his hip, his left holding the lance, to the Olympian Ocnomaus, who will not be much later than the Kallias. This type occurs, once more in the Apollo of the coins which Themistokles struck as lord of Magnesia after 463,38 where for the lance is substituted a branch of laurel. It is evidently another example of the art of Mikon. Herakles must be compared to the Zeus of the pediment.

It remains to say a word about the well-known krater from Bologna,

^{*}v. 617: sodat asternamque satchit infelix Thessus. It seems worth while to remark that Virgil does not full into contradiction with himself when he cites (v. 122). Theseus amongst those that return from

Hader slive. In the time of Aeness Thosens was dead once more and this time for good.

¹¹ Samuel way Somete, p. 5.

[#] Hill. Historical Greek Coms, p. 45, Pl. III. 26.

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with the reception of Theseus at the bottom of the sea 40 (Fig. 3). Jacobsthal 40 is surely right in so far as the style of this work in every line and form and ornamental detail is certainly more than a generation posterior to the work of Mikon, but he goes too far, it seems, in postulating the necessity of the influence of another great artist for the composition in its general outline. His principal argument is that, though kings and heroes and ordinary mortals had been used, more than a century, to eat and drink in a recumbent position, no gods but Dionysus and Herakles followed their example, and that the rest of the Olympians maintained the ancient and more dignified custom of sitting at their meals till the times, let us say, of the young Parrhasius. The remark is interesting, but the sole example he cites to corroborate this opinion-vases of Sosias, Oltos, Euxitheosare, as he himself admits, anterior to Mikon. An innovation must make a beginning at some point or other. There is no reason why the great maturalistic innovator, Mikon, should not have been the first to make Poseidon, at home, drink at his case the cup that so rare a page as Eros mixes for him:

On the other hand, the general disposition of the whole composition is so perfectly in the same spirit and the same form as the deliverance of Theseus that they obtruded themselves on the notice as counterparts even before a closer connexion was established. I need hardly give further details to prove this in respect of the place the figures take among the rocks, their distance from each other, and their size in relation to the dimensions of the picture, however important these be in determining the style of a master. Nor need I dwell at length on the place taken by the team of the rising Eos " behind the mountains that enclose the sanctuary of Poscidon parallel to that of Iolaus; nor on the representation of the sea as a narrow channel in the foreground and background tripod-bearing columns indicate the shores that compass the water) resembling the confines of the infernal world; nor on the contest that is fought and won unseen behind the rocks, even as the stern of the ship of Minos shows mught of his quarrel with Theseus, which made him throw his ring into the deep. But I will draw attention to the schema of Poseidon, which forms on the left the exact counterpart to the rising Thesens on the right; he reclines with one leg drawn up, the other outstretched, his right hand reaching high at his trident as the left of Theseus does at his lances. The cardinal difference is that Theseus is all movement, however lothargic it may be, and well-directed action while Poseidon is hardly more than a nearly superfluous 'pendant' imagined for the sake of balance. Both enhanced as they are by still life Theseus by shields and a helmet. Poseidon by a tripod and an oimothoe and krater, take a prominent place in the compositions and so, I think, go far to prove that they were intended to counterbalance each other. As Pausanias mentions

ts Mon. of Inst. Suppl. T. vat.

^{**} Theories and dem Mecrosprumb (Lespaig, 1911), p. 14 ff.

⁴ She has been wrongly interpreted as Helios as may be seen by her hair net and the presence of the morning star.

them last, after the long-continued battle with the Amazons and struggle with the Centaurs, which must have occupied the other walls of the temenos that enclosed the select of Theseus, I would suggest that they were to be seen on either side of the door as the visitor turned to go out.

Be this, however, as it may, the exact correspondence goes a long way to prove that the Releasing of Thesens has preserved to us the truest reproduction we possess of a work of the master in a copy of the picture which Pausanias mentions in such a desultory way, and that the Thesens krater is hardly less reliable in its composition, though not in the execution. So it seems worth while to add a few words to elucidate what remains unexplained in this

picture.

The presence of Nereida need not surprise us at the court of Poseidon and Amphitrite, but one asks oneself what the shield-like musical instrument in the hands of the Nereid farthest to the right may mean, till one is reminded of the deep sound made by the waves beating on the beach and takes it for granted that this drum must indicate the κόματα ἡχήεντα. As she sits at the end we might call her Aktaie. As to the presence of Eros here, I see nothing but a reminiscence of the origin of Theseus, Love mixing the φίλτρα that made Poseidon the father of the young hero, on whom the sea-god casts his eye with pride as Triton bears him in his arms, ready to receive the crown of roses extended to him by Amphitrite, a marriage gift which she got herself from Apbrodite. The vase-painter's intention of drawing roses is not to be mistaken if one thinks of the single roses of the ancients.

We know Greek painting by the scanty notices of the authors, by the figured vases, and by the reflections in Etruscan tombs and Greek basso-rihevi. There is no doubt that the Greek painters began by figures that stood out dark upon a lighter ground, and as we still find this method continued on the white lekythor, cups, and kraters, we have no reason to doubt that, generally speaking, a similar effect will have been usual in the pictures of these times. We may even observe here and there in red-figured vase-painting an evident indication of this fact, but we give a single instance out of many, convincing enough in itself. Helena, in the well-known scene, which probably reveals to us the art of Aristophon, shows her profile standing out clearly against her loose hair, like a Florentine quattrocento head in three-quarter on a light sky. This artifice has no sense on a black surface, such as the vase has.

The coloured figures on a lighter ground of the antique porce reliefs give place to the lighter bright-coloured marble designs on a darker blue as early at least as the Delphian treasure-houses of the Knidians and Siphnians. Pheidian and his school in the chryselephantine or marble appliques on the

Genenia), Fig. 10.

W Bacchylales, avii. 114 ff.

⁴² Brit, Mus. Catalogue of the Oreck Counts of Carrie, Con. Rhodes, etc. Pl. XLI, 1-7. Wighloff, Binnight Kness (Die Wiener

^{**} Man. Gregor, H. Pl. 5, 2a; Ovurbeck, Gall. Her. Bild. i. Pl. 26, 12; Michaelis, Parckmon, p. 139.

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black Eleusinian stone of the basis of the Zeus or the Parthenos and the Erechtheion frieze seek a similar effect to that aimed at by Panainos on the dark blue screens between the legs of the Olympian throne, and the vase-painters give the same relation to most of their work, the red-figured compositions. In later times the white figures on dark-blue glass, as in the Portland vase, continue this effect and the Greek portraits from the Egyptian tombs generally stand out on a dark background.

Even the painted sarcoplingus at Florence has, on the short sides at

lenat, a dark background.48

I have long entertained the notion that the ἀμυδρὰ σὕτω ἔή τι τὰ εἴδη τῶν ἰχθύων—σκιὰς μᾶλλον ἡ ἰχθῦς εἰκάσεις, 48 and the ἀμυδρὰν καὶ σύδε ἀλόκληρον εἴδωλον 47 in Polygnotus's Nekuia do point to fishes and the image of Tityos in outline, black in the black darkness of Orkos, similar in technique to the black figures that are not rare amongst the coloured designs on black, as the ram of Odysseus 48 or a Sappho in black dress. 49

There is nothing in the painting of the krater from Orvieto to speak either for or against the idea that Mikon should thus first have made visible the darkness of Hades, making his figures stand out clear on the black rocks. But here the Theseus krater again comes to our aid. Above the dark waters of the deep the sky is dark, and though the dawn kindles the horizons, the morning star is shining bright. The tripods on the columns in the original were perhaps still flaring as beacons in the darkness of the night. Or does their being burnt out show that daylight is appearing?

Not improbably we should call the dark colour, used here by Mikon, blue, but in the technical language of the fifth century there is, as I hope to show elsewhere, no attempt to distinguish this colour from black, which is the general term for the cool and dark group of tones. In opposition to \text{\text{\text{LUNCOU}}} stands \(\rho(\text{\text{\text{LUNCOU}}}) \) as light and \(\rho \text{\text{\text{LUNCOU}}}) \) in the terminology of the Dutch

painters in the seventeenth century.

I have only to add here that according to Amazagoras 30 the true colour of water is μέλαν.

Theseus has been thought to be a solar hero, as well as Herakles, which would be a sufficient reason for his supplanting his model. One would almost be inclined to suppose that either the painter or his authority was aware of this fact; for if the time of the action is fixed at the point of day, the artist wishes to remind us rather of the reappearance of the young hero from the deep waters, than of his hardy leap into them, even as he does not show us the adventurous descent of his riper age into the nether world but his release from the bonds of darkness. If in the hymn of Bacchylides, when Theseus goes down to the palace of the gods, the Neroids, the waves shine like fire and around their crests gold-braided fillets whirl,

Perrot et Chipiez, x. p. 242.

Diela, Formolyutiker, p. 324, Frage 97, 98.

Annali d. Inst. 1873, p. 252; J.H.S. 1883, Pl. XXXVIII.

^{*} Pans. x. xxviii L.

IT Pans x xxix 3.

^{**} Gautte Archiologique, 1888, PLXXVIII.s.

The Witte, Dence, d. Coll. of Ant. conserved a Photel Lumbert, Pl. III. Perrot et Chipres, x p. 241.

άπο γὰρ άγλαὅν λάμπε γνίων σέλας ὅστε πυρός, ἀμφὶ χαίταις δὲ χρυσεόπλοκοι δινεῦντο ταινίαι, ^{১1}

he himself comes unwetted out of the sea a wonder to all and the gifts of the gods shine around his limbs,

μάχ' ἀδίαντος ἐξ άχδς. θαθμα πάντεσσε Χαμπε δ' ἀμφι γυίοις θεών δώρ' :=

J. Six.

AMSTERDAM

M SWILLIAM

50 avail 199.



PAINTED SAROPHAGES DISCOVERED IN KERGE IN 1900.

The same represents a pointer of encaustic innered portraits. (A.d.p.S.R. Pl. XCII.)

ANCIENT DECORATIVE WALL-PAINTING!

[PLATES VI-IX]

U

The history of ancient decorative wall-painting has yet to be written. The attention of the whole world was attracted by the wonderful discoveries made in Pompeii, and indeed for many years Pompeii stood for ancient decorative wall-painting in general.

That Pompeii so completely overshadowed modern ideas on the evotution of this art is due in great measure to the fact that at Pompeii it had found a wonderful exponent and explorer in the late Professor August Man. His book dealing with the Pompeian decorative mural painting at once became a classic and influenced profoundly text-books and popular works on the history of ancient art and customs.

Two facts, however, should be borne in mind. First, that the decoration of Pompeian houses illustrates the art of one epoch only—the Hellenistic and the earlier Roman Empire, except for a few examples from a still earlier age, and those not before the third century B.C. Also it should be remembered that this art at Pompeii can be taken as characteristic only of Italy and indeed only of Southern Italy; it does not follow that it developed on the same lines in other regions of the ancient world.

Secondly, that besides Pompeii we have other equally important and complete series of remains of decorative wall-painting, which, like Pompeii.

^{*} The text of this article represents a said Historical Society. Icoture delivered to the Oxford Architectural

provide magnificent illustrations of the history of maral decerative painting in the ancient world.

This art is not illustrated everywhere, as in Pompeii, by the mural decorations of heantiful houses; sometimes it is found in the decoration of vaults. But it should be remembered, once and for all that the scheme and system of decorative wall-painting never changes whether used to embellish the dwellings of the living or the habitations of the dead.

I shall recall the most important series of mural decorations known to us, partly those belonging to the Pompeian period and partly those of an

earlier or later period.

I shall not dwell on the long series of mural decorations of Egypt, beginning with the pre-dynastic period and ending with the Saitie epoch. Their history has not been handed down to us by anyone though it would have been instructive, not merely for the history of decorative art in the East. Neither shall I dwell on the monuments of Babyloma, Elam, Assyria and Persia, or the valuable remains of the Aegenn and Mycenean palaces and vaults on the islands and in Greece. Even up to the present time no proper research has been carried on with regard to these remains. I will only point out the most important series of decorations within the bounds of the Greek and Italic world.

Attention is drawn here first of all to the numerous decorated vanits of Etruria, which illustrate mural painting in Greece from the seventh century a.c. to the third century a.c. If these are carefully studied together with the remains of the decorations of accient Greek and Italic temples and the valuable series of painted Greek sarcophagi beginning with the Cyprian and Clazomenian and ending with the Etruscan and Sidoman (including Etruscan urns), and if to these is added the series of Greek painted vases, studied from the point of view of a decorative scheme, and the series of Greek painted stelae from Bosotia, Thessaly, Phoenicia and Egypt, then, I consider, it will be easy to outline the history of Greek mural decoration from the archaic to the early Hellenistic period.

In studying the epoch immediately preceding the Pompsian period, we are aided by a magnificent series of decorated Macedonian vaults of the fourth-third centuries a.c., by some tombs of Palestine and by an equally valuable series of Campanian, Apulian, Samnite and Latin tombs, which should be studied together with the decorated vases of that period, found in

those districts.

With the third century are begins the series of mural decorations of Pompeian houses. We should not however study them, like Man, only in Pompeia. For the earlier stages of Hellemstic mural painting we have now, besides Pompeii, a fine series of mural decorations of private houses in Deles, as well as in Priene, Thera, Pantikapaion, Olbia, and a number of most interesting decorated vaults belonging to the earlier Hellemstic period in Alexandria and its neighbourhood. This material should be studied together with the history of vase-painting, which, during the Hellemstic period, from being monochrome became polychrome, and together with the

history of painted glass vessels. We are greatly aided in this by various

early examples of mesaic on walls and floors.

For the later Hellenistic period there is not so much material. Yet, besides Pompeii, there are the painted grave-stelae noted above, and a certain number of painted vaults mostly belonging to Syria. Phoenicia and Palestine. We must not forget that in this period begins a unique series of remains of decorative mural paintings in houses and vaults belonging to Rome, the then capital of the world. I will only remind the reader of the wall-paintings of the Palatine, and in particular of the latest discoveries made by Boni, the house on the other side of the Tiber, the mural decorations of the Villa Liviae ad gallinas albas, the painted columbaria, etc.

Pompeii was destroyed in 79 a.b. Thus the series of Pompeian decorations abruptly ceases near the end of the first century a.b. A few people have spoken of the development of decorative wall-painting in Greece before Pompeii. But no one has taken interest in or studied the history of decorative painting after Pompeii, in the second and following centuries a.b. Nevertheless, if we wish to understand the system according to which Christian churches in the West and East were decorated, and if we wish to make a careful study of the systems of decoration which prevailed in the Middle Ages and the Renaissance, we should be acquainted with the evolution of decorative mural painting during the whole period of the Roman Empire.

Here we are also aided by possessing most valuable, though not particularly well-known material. I have already spoken of the wonderful remains of mosaic those stone carpets which covered the floors and walls. Let us remember the valuable series which have been left to us by Italy and the East, and more particularly by the western Roman provinces. Africa.

Numidia, Spain, Gaul and Britain.

In addition to the mosaics we have a remarkable series of walldecorations the most important of which are to be found in Rome. From
the Renaissance period decorated vaults have been opened in Rome one
after another. A very few have been preserved; some have been copied,
others destroyed without a trace. A great number of decorated houses have
also been found; I will only recall to you the 'Donius Aurea' of Nero, the
house on the Caelian, and the famous house under SS; Giovanni e Paolo.
Only of late has an interest in these monuments been shown; some of them
are now being published by the British School in Rome.

These series cannot be treated separately from the wonderful series of catacombs in Rome, Sicily, Naples, Alexandria and on other Christian sites. These have been mostly studied by historians of Christian art whose chief interest lies in the subjects of the paintings. But from the point of view of the history of the art they can only be understood if studied in connexion with the whole series of contemporary mural decorations. Latterly, in the neighbourhood of Rome, Ostia has yielded a most noteworthy series of house decorations, not less interesting indeed, than those found at Pompeii. The oldest belong to the second century a.p., the latest to the fourth centur. a.p.

The western Roman provinces have less valuable remains, but even here we have some material of primary importance. I may mention the highly interesting work found in Britain, particularly the mural decorations of the houses at Cherwent, the remains at Salonae and Pola in Dalmatia and Aquincum on the Damibe, many tombs in Albania, Macedonia, Serbia and Bulgaria, important remains of stucco-paintings in some Gallic villas and houses in North Africa, a beautiful pointed tomb near Tripoli, etc.

There are not as many remains in the East, but even here we find some particularly valuable material. Few people know how many remains of Roman decorative painting there are in Egypt. A series of vaults near Akhmim (Panopolis) belonging to the second-third centuries a.b., decorated edifices and tombs in Alexandria, and the important paintings on one of the walls of a temple in Laxor—these are the fragments I have personally seen in Egypt.

Moreover, we have a whole series of painted vaults from Palmyra, another series in Phoenicia and Palestine, fragments of muval decoration from a large house in Kos and the decorations of the former palace of Attalus

in Pergamon, etc.

With all these facts it seems possible to attempt the task of reconstructing the history of decorative wall-pointing in the period of the Roman Empire.

п

Amid all these examples of our art, a special place is occupied by the decorations found in the Greek towns of South Russia, which were first collected and arranged by me. There are not many, nor are they particularly important considered artistically. They belong on the whole to provincial art. But they are important to us for two reasons. In the first place, they make a complete series of monuments from the fourth century no. to the fourth century a.b.—in each century are several spectmens of well-preserved vaults and these can always be dated. (The evidence for these dates has been collected by me and is published in my book: I cannot dwell on them in detail here.) In the second place because these monuments depict the evolution of mural decorative painting in the East, where we have so few remains of the Roman period, and where Greek tradition and Eastern art unite. Studying these monuments, we are able not only to recognise the Egyptian and Syrian influences, but also the Iranian, the important significance of which has only lately been realised.

In my short account I cannot dwell on all the important questions arising from the study of all the above-mentioned facts and material. Let me deal only with the question concerning the evolution of the general scheme of mural decorative painting of the Greek and Roman period.

The most ancient system of mural desoration of small houses and of vaults in Greece (not in the Aegean world, where different principles were employed) was based on an elementary and simple idea. This idea is prompted by the structural system of the wall as such. The oldest walls were not built of stone but of unbaked brick; large stone blocks were only used for the base. To join the base and the brick-wall a course of wood, stone or twigs was required; a similar course was required at the top of the wall for the purpose of fixing the roof. This construction divides the wall into four parts: the base, the intermediate portion, the central part of the wall and the cornice.

The unbaked brick and rough stones were brittle and shapeless; they were therefore covered with plaster, which from the most ancient times was painted. Usually the central part of the wall was painted red. The cornice and intermediate portion were the most suitable parts of the wall for painting and embellishing with geometrical and other designs. The base was either entirely painted over in a colour differing from the colour of the central wall-space or painted to imitate a base built of stone slabs.

This oldest scheme of wall-decoration was greatly influenced by buildings built entirely of squared stones, which fully retained the characteristics of the more ancient wall of unbaked brick; the base, the intermediate

portion, the central part and the cornice.

The system of wall painting traced above, which may be called the structural system, is splendidly illustrated in some decorated vaults found in South Rassia belonging to the fourth and third centuries B.C., in one of Kerteh, one on Vassiarin's hill (on the Taman peninsula) and another near Anapa on the Black Sea (and Gorgippia). The painted vault of Kerteh (see Plate VI. 1; comp. A.d.p.S.R. p. 70 foll., Pls. XXVI., XXVII. 5 and XXVIII.) belongs to the fourth century at The decorative system, however, reproduced in this vault illustrates a very primitive desorative scheme. There is no doubt that the decorative wall, though built up of stones, is decorated as if it were constructed of unbaked bricks. The base and the middle part of the wall painted in plain colours (red and yellow), the intermediate part reproducing a wooden course, the wooden cornice with nails on which sepulchral implements are hung, demonstrate that the decorator operated with a very old and primitive decorative scheme.

More advanced is the decorative scheme of the painted vault on Vassiurin's hill (see A.d.p.S.R. p. 30 foll., Pls XI-XXV and Figs. 6-10). The base here imitates square stone courses, the intermediate part and the cornice are righly adorned with painted ornaments and reproduce perhaps stuccoed and painted stone courses. In examining the decorations of the vault on Vassiurin's hill it should be remembered that its architectural prototype is not a building covered with a roof, but only one surrounded by walls: hence the balusters on the walls and the birds perched on them. The curpet decorating the coiling of this vault is often met with in the decorations of ceilings: we also find it in some of the Alexandrian vaults of the third century a.c. and later in the decorations of some of the rooms in the Flavian pulsare on the Palatine. The fact that ceilings and walls were decorated with carpets leads one to suppose that the callings were often upholstered with staff or with carpets.

The vault of Anapa (see A.d.p.S.R. 83 foll., Pls. XXVII 1 and

XXIX.-XXXI.) shows the great influence on wall-painting of vaults and

houses built of huge squared stones.

A stone building did not require covering with stucco. It was sufficient, as in the large (freek temples, to paint the capitals of the columns or the frieze and cornice. It was also customary to decorate the coffers of the ceiling. All this can be observed in the decorations of the vault of the Tumulus Bolshaja Blisnitza, belonging to the fourth century a.c. (see A.d.p.S.R. 10 foll., Pis. IV—XI., Figs. 1—5). The head of Kore in the central space of the step-vaulted ceiling (Pl. VII. I and Fig. 1) recalls similar heads of gods and goddesses of the nether world to be found in many of the vaults of Asia Minor and Italy of the same period; similar heads are often



Fig. 1.—View of the Paisted Vallet in the Temples Bolshaja Bassizza (Taman). (Rostovizefi, A.d.p.S.R. Pl. VI. 2.)

used as decorations of coffers of ordinary ceilings. Later they appear in the

centre of semi-cylindrical vaults,

This most ancient system of mural painting, dating back then, to ancient Egypt and lasting almost unchanged to the fourth and third centuries n.c., led to important artistic creations. The central undecorated wall-space became the natural background for monumental decoration in the form of figure subjects, that is the so-called Greek 'megalography.' Wonderful paintings once adorned this part of the wall in the 'Stoa Poikile.' Splendid examples of walls thus decorated are to be found in many Etruscan and Sammite tombs and later in the Villa Item recently discovered near Pompeii.

Along with this another idea begins to develop and prevail in the early

Hellenistic time. The walls of the Hellenistic palaces of Asia Minor and Egypt were mostly built of brick and were often covered with thin slabs of different coloured marble instead of stucco, but retaining all the structural parts of a Greek wall built of squared stone. This resulted in a rich harmony of colours, familiar to us not in the originals, but in innumerable copies on the walls of bourgeois houses and vaults throughout the Hellenistic world—in Delos, Priene, Thera, Pompen, Alexandria, Pantikapaion and Olbia. This system of wall-decoration is generally called the first Pompeian or the incrustation style. I cannot adopt this terminology, first because the style is not confined to Pompeii, secondly because incrustation is the insetting of marble of one colour into marble slabs of a different colour, and that is not the case here. Real incrustation will be observed later (p. 152).

The so-called first Pompeian style does not differ in principle from the old Greek structural style; it is only finer and richer in colour and more elaborate in details. We may designate it as the Hellenistic structural style.

It is interesting to note, however, that the so-called first Pompeian style is not the same everywhere: three varieties can be clearly distinguished—the Alexandrian, that of Asia Minor, to which the South Russian decorations belong (see Pt VI 2; comp. A.d.p.S.R. 112 foll., Pt XXVII 2-4 and XXXVII -XLIV., Figs. 23-26) and the Italian. The Asia Minor style is richer in elaborate details and has more colour, whereas the Italian is more strictly architectural.

The Italian and especially Pompeian wall-paintings developed not only polychrome effects, but also architectural elements. In addition to the horizontal divisions of the wall, vertical divisions are indicated everywhere. From top to bottom from the dado to the cornice, the wall is divided by columns, pilesters and half-columns; the frames of doors, windows and niches are richly embellished and painted; walls with two lights as in the

Odeon of Pericles, are reproduced in the mural decorations.

All these elements, which strongly prevail in Italy in the first Pompeian style gradually develop into the so-called second Pompeian style, and later into the third and fourth Pompeian styles, whose further development can be observed in Italy and the western provinces. I would call all these styles architectural. One of the most striking features of the architectural style is the close imitation in wall-decorations of the decorations of the theatre stage. This imitation is as characteristic of the earlier phases of the architectural style (the second Pompeian style) as of the later development (the fourth Pompeian style).

In considering the botty debated question of the provenance of this architectural style it is most important to state that I know of no examples in the East or in South Russia, though many vaults belonging to this period are to be found in the South of Russia. Neither has Egypt produced any conspicuous examples, whereas Rome, Italy and the West are rich in remains of that style. I would therefore feel inclined to agree with the opinion of those ancient authors, who saw the development of this style and consider

Italy its place of origin.

In the East a different development may be observed. In the first and second centuries A.D. two different styles made their appearance, both of no less importance in the further development of decorative art. At first, during the later Hellenistic period, simple degeneration and simplification of the structural style begins; it is in fact the same process as that suffered by the architectural style in Italy and the western provinces (see A.d.p.S.R. 136 foll., chs. xi-xvi.; I called this system of decoration pseudo-isodome or late structural).

But afterwards, two peculiar styles emerge: the floral or carpet style, and the incressation style.

The floral style is very old. It originates in the tent of nomadic tribes, which was entirely hung with carpets. But the form in which it appears in



Fig. 2 —FRONT PART AND FRONT BOOK OF THE VAULT DISCOVERED IN KERGER IN 1893.

(The two figures to the right and to the left of the door are defined by inscriptions as Hermos and Kalypso, the See ψαχονόμπου, A.S. p. S.R. Pl. LVI.)

South Russia is the product of late Hellemism. It may be described as follows: the framework of architectural structure and divisions remains the same: dado, central and upper part of the wall: all these parts of the wall however, are used as background for decoration. In some decorations of Pompeii, Cyrene and Alexandria, the leading idea is that of a woven carpet covering the wall. In South Russia the wall is covered with branches flowers and garlands partly taken from nature and partly conventionalised. They are strewn in full disorder without system on the walls and ceilings, and are often found in conjunction with figure subjects, which at this period are found in the central space and in the lunattes (see Fig. 2, the earliest example of this style: the vault discovered at Kertch in 1895; the ceiling

with the head of Demeter is reproduced on Pl VII 2, comp. A.d.p.S.R. 199 foll, Pls. LVI.-LXII, Figs. 35-47; other examples of the same style in Kertch are the vault of 1873, see A.d.p.S.R. 227 foll, Pls. LXIII.-LXV. Figs. 49-52, and the vault of Sorakos, ibid. 244 foll. Pl. LXV. 4, Fig. 53).

I cannot here trace the full development of this style, but I may say that it is not confined to the South of Russia. It is found in some houses in Pompeii, in the vanits of Rome, Tripoli and Palmyra, and in the palace of the Attalids in Pergamon. Its influence is strongly felt in some decorntions of the western provinces of Rome. I find traces of it in Hellenistic caranics and in many Hellenistic and Roman mosaics, but it is probably older than Hellenism and originates in the East. For the future no student

of decorative art can afford to neglect it.

The incrustation style has a still greater importance. The history of its origin was outlined to us by Vitruvius and Pliny. They consider the palace of Mausolus in Caria the first example of it in the Greek world. But it dates even further back. Its birthplace is ancient Mesopotamia and Iran with their buildings of unbaked brick and their wealth of different coloured stone. The principle of the style is as follows: the same fundamental system of dividing the wall into three parts is retained, and the whole or some parts of the wall are covered with slabs of different coloured marbles, not with the intent of reproducing or outlining the structural character of the wall, but of achieving a rich polychromy. Its leading idea is to obtain an effect of mosaic, 'marmoribus pingere.' Marble slabs of one colour are incrusted or inlaid with 'crustae' of another colour, forming geometrical ornament, and separate figures or whole scenes.

The same effect is produced in Elam, Babylonia and Persia, by using different coloured tiles. During the Roman period decorators refrained from reproducing human figures and animals on walls decorated on this system and contented themselves with geometrical ornament. Their treatment of floors, however, as is shown by numerous examples found in Rome, is all the more unrestricted, and by means of incrustation, human beings.

animals, etc., are represented.

A splendid illustration of this form of art is given by a vault opened by Stassov in Pantikapaion (see Pl. VIII., one of the walls, and Pl. IX., the ceiling), and by a vault in the same place, which I have discovered

and described (A.d.p.S.R., p. 261 foll., Pls. LXVI.-LXX.)

Characteristic for Kerteh is the fact that the incrustation style was mostly combined with the floral and with representations of figured scenes in the upper part of the wall. In these cases the lower part of the wall was covered with decoration imitating marble incrustation, the upper with figure subjects and strewn flowers and garlands (see Pl. VIII.). The same combination may be observed on the ceilings (see Pl. IX.); the central part is covered with flowers, birds and garlands; the parts of the ceiling above the fineral beds, with coffers inlaid with coloured marble. The description of vaults decorated in the incrustation style and an analysis of the style as such can be found in A.d.p.S.R. 260 foll., chs. xxiv-xxviii. (pure

incrnstation style) and p. 283 foll., chs. xxix.-xxxii. (mixed incrnstation and floral style).

It is interesting to note that this style can be observed in the later

decorations of Pompeii.

The incrustation style had a promising future. Every Byzantine church, many relies of the early medieval ages provide brilliant examples of the

further development-extending even to the present day.

The floral and incrustation style in South Russia reached their climax in the second and the beginning of the third century A.D. In the third century they are already declining. Rich colour and form disappear; the floral and incrustation style adopt geometrical form, and everything is based on line and contour.

Christianity established in the Chersonese during the third century A.O. gives rise to the rebirth of decorative wall-painting strongly influenced by Syria and Palestine. The determination of the origin of this new development is a difficult and complicated question. A discussion of it would be too lengthy for me to enter on here (see A.d.p.S.R., p. 439 foll., chs. slvii., lviii., Pls. CHI.—CX.).

I have now given a brief review of the development of decorative wall-painting in the East and partly in the West, in so far as this development is shown by the monuments found in South Russia. The universal evolution is more complicated and more detailed, but the essential steps of evolution have all left their trace in South Russia, and from their observation some fresh idea can be obtained of the general development of mural decorative art in Greece and the Roman Empire.

NOTES AND REFERENCES.

To Part L.

The article printed above reproduces in general outlines the results at which I arrived in my book Ancient Decorative Painting in the South of Russia S. Petersburg, 1914, vol. i. (text), vol. ii. (plates), (quoted as A.d.p.S.R.). It is impossible to give in a few pages the whole content of a big work of about 600 pages and 112 plates dealing with difficult and unexplored material. But it would be perhaps useful to trace the main outlines of the general evolution of ancient decorative painting as resulting from the minute research carried out in my above-mentioned book.

In these few additional notes appended to my article I cannot give all the references and quotations contained in my book. I should like only to illustrate certain points in my article by some references partly borrowed from my above-montioned book partly new. My nim is to give to my reader the possibility of controlling my own statements and to guide him through the scattered and unsufficiently studied materials. I do not mention the older publications if I am able to refer to a recent work or article containing

a more or less good bibliography of the subject

The standard work on Pompeten Decorative Painting is A. Man Geschichte der decorativen Wandmalerei in Pompeis. Berlin, 1882, with athis of coloured and uncoloured plates. The new works about the subject deal with some points of detail and are indicated in the introduction to my A.d.p.S.R. (Valuable remarks about the origin of the Pompeian system may be found in R. Pagenstecher. 'Alexandrinische Studien' il., Sitzb. der Heid Ak., Ph.-Hist Kl. 1917, 1 foll.) No one has tried to illustrate post-Pompeian decorative painting in the Roman world, as no one has attempted to give the outlines of evolution before Pompeii. I have not to deal here with the question of the composition and the originals of individual Pompeian pictures; see the last works on this subject: Lippold, Jahrb. d. d. Arch. Inst. xxix. (1914), 174 foll.; F. Matz. Ath. Mitth. xxxix. (1914), 65 foll.

Elvuria.—The latest and best work on the painted tombs of Etruria is F. Weege, Etruskische Grüber mit Gemilden in Corneto, Jahrh. d. d. Arch. Inst. 1916 (xxxi.), 105 foll. but it deals only with Corneto; comp. Ducati, Atene e Roma, 1914, 129 foll. and Galli, Monum. antichi xxiv. (1917), 1 foll. With the Etruscan tombs we have to compare the beautiful surcophagus from Gela in Sicily of the fifth century n.c., stuccoed and painted inside like a sepatchral room, see Orsi, Mon. ant. xvii. (1907), 384, Figs. 284–287 and Tav. XLVI. Of later date (fourth to third century n.c., ibid. 379, Fig. 281). The remains in Greece itself are scarce; note a tomb from Eretria in Euboca, Ath. Mitth. 1901, 339, Fig. 2, and another tomb from Aegina, Boss, Arch. Aufs. Pl. III., cf. Ath. Mitth. 1885, 158.

Macedonia and Thracia.—The beautiful painted vaults in Macedonia and Thracia belonging to the fourth-third centuries n.c. give the best analogies to the painted tombs of early date in South Russia. Like them they are covered by a big tunnilus and belong apparently to Macedonian and Thracian kings and princes. A few of them were excavated, to wit, some tunnili near Pella, Pydna and Palatitza, see Delaconforche, Berceau de puissance macedonienne, 76 [Arch de mission sc. 1858]; Henzey et Daumet, Mission en Macedonie, 226 foll.; 247 foll, and 251. A splendid tomb was discovered by K. F. Kinch in Macedonian Thrace, see Kinch Berchning om en Archhologiska Reise | Makedonien, København, 1893; A.d.p.S.R. 313, Fig. 61, compare the newly discovered vault near Salunka with funeral beds and a splendid door, Macridy Bey, Jahrb, d. d. Arch. Inst. 1910, 210.

South Italy.—F. Weege, 'Oskische Grahmalerei, Johrb, d. d. Arch. Inst. 1909 (xxiv.), 99 foll; R. Pagenstecher, 'Grahgemmelde and Gmathia. Röm. Mitth. 1912, 101 foll. (gives valuable evidence on the Apulian graves); Gabrici, Mon. d. Linc. xx. (1910). I foll. (vault of Teanq). Compare H. Nachod. Röm. Mitth. 1914 (xxix.), 260 foll. and some articles on various bailly excavated and thoroughly forgotten tombs in the periodicals Apulia and Neupolis (e.g. Apulia ii. 159; iii. 97; Neupolis i. 104, etc.).

Palestine.—To the early Hellenistic period belongs the splendid painted tomb of Marissa, see Palestine Exploration Fund, Painted Tombs in the Necropolis of Marissa by J. P. Peters and M. Thiersch, London, 1905; cf. Macalister, Addenda ibid, and Vincent, Rev. biblique, 1906; also Thiersch, Aug. 1908, 405 foll.

The splendid representatives of the oriental branch of the so-called first Pompeian style from *Delos* are now decently published and carefully studied by M. Bulard, 'Peintures et mosaiques de Delos,' *Mon. et Mém. Piot* xiv. (1908); less important are the remains in Priene, Magnesia on Macander and Thera, see Wiegand and Schrader, *Priene*, p. 308 foll.; Hiller von Gaertringen, *Thera* in 145; 148 and Pl. 4; 162 and 164 Pls 1–2 and Fig. 154, comp. p. 169 (some of the remains on Thera belong to Romau times); *Magnesia am Macander*, p. 138, Fig. 149, 150; on Olbia and Pantikapaion, see further above

Extremely rich and quite peculiar is the series of painted tombs of the early Hellenistic period discovered in Alexandria. It is a pity that the series was never published as a whole; some tombs, like the beautiful tombs near the ancient Pharos, remain practically unpublished, see M. Thiersch, Zuwi untike Grabanlagen bei Alexandria, Berlin, 1904 (the tomb of Sidi-Gaber and that in the garden Antoniadis); the painted vault of Souk-el-Wardian, see Breccia, Musée égyption ii. (1904), 63 foll.; a description of the paintings in the tombs of Pharos, Botti, Bull. de la Soc. Arch. d'Alexandria, 1902 (No. 4), 13 foll. compare Ad.p.S.R. p. 63, fig. 12, and Pl. XXV. 2. The new and less important monuments are published in the periodical Rapport sur le marche du Service du Musée of the municipality of Alexandria.

We have to compare the Alexandrian examples with those from South Italy, e.g. Naples, Mon. ant. pubbl. dell' Academia dei Lincei, viii. 221 foll., compare Gabrici. 'Tomba ellenistica di S. Maria Nuova in Napoli,' Rôm Mith. 1912, 148 foll.

Valuable information about the style, ornaments, colours and the decorative scheme of Hellenistic wall-painting is supplied by painted clay and glass vases of the same period. The latest and most important works on the clay vases of the Hellenistic period are: E. Pottier, Vases hellenistiques a fond blane, Mon. Piot xx. (1913); G. Leroux, Lagynos, Recherches sur la véramique et l'art ornamental hellénistiques, Paris, 1913; Sieglin-Pagenstecher, Beschreibung der griech-ögypt. Sammlung Ernst von Siegtin, Leipzig, 1913, Expedition E. v. Sieglin, il. 3; Picard, 'La fin de la commique peinte en Grande-Grèce, Bull. de core. hell. 1911; E. Breccia, Catal, yen des ant, ég du Musée d'Alexandrie. La necropoli di Sciatti Le Caire, 1912; compare Musée ég. iii. 13 foll. (La ghirlandomania alessandrina); J. Six, Polychrome Malereien von hellenistischen Hydrien aus der Nekropole von Hatra in Herrmann, Denkm. der Malerei des Alt. 15 K. V. Trever, Olbian Polychrome amphora (in Russian), Materialy po archeologii Rossii, N. 36 (Petrograd, 1918). The painted glass-vessels are illustrated by myself: "Painted Glass Vases of the Late Hellenistic Times and the History of Decorative Painting (in Russian), Bull. de la Comm. Imp., Arch. 1914, compare Morin-Jean, Rev. arch. 1917, 310 foll. (abstract of my

article, not without defects and misunderstandings).

Of great importance are the painted grave-stelar of the Greek and early Hellenistic period found chiefly in Egypt, Phoenicia (Sidon) and Thessaly. We have no general publication of the painted stelae of Alexandria. Most of them are published by Breecia in his accounts of the excavations in the necropolis of Alexandria-Sciatli, Ibrahimich, Gabbari, etc., see the above mentioned book La necropoli di Scialli, compare Rupport sur la marche du service, and Bulletin arch. d'Alexandrie, also the article of A. Reimach, 'Les Galates dans l'art Alexandrin, Mon. Piot, xviii, 37 foll. and my article in Monuments du Masse Alexandre III. à Moscon (Moscon, 1912), i.-ii. 69 foll. The curious Sidonian stellae now chiefly in the Museum of Constantinopie were collected by Lammens, Rev. Arch, 1898 (33), 100; Perdrizet, ibid 1899, 42 foll, and 1904, 234 foll. The stelae of Pagasac-Demetrias in Thessaly were published by A. S. Arvanitopullos, Θεσσαλικά Μυημεία, 1909, compare A. Reinach, 'Les nouvelles stèles de Demetrins,' Rev. έρ, ii 137 foll.; G. Rodenwaldt, Ath. Mitth. 1910, 118 foll. and A. Walton, Painted marbles from Thossaly, in Art and Archaeology, iv. (1916), 47 fall.

Late Hellenistic (1) Palestinian tombs were published by Bliss and Macalister, Eccavations in Palestine during the Year 1898, p. 198 foll, and Pl. 92, Figs. 3 and 5 (Tell el Judeideh) and by Bliss and Dickie, Excavations at Jerusalem, 1894–1897, London, 1898, 244 foll, (two coloured plates). The dates of both are uncertain.

The late Hellenistic wall-paintings of Rome are to be found in the above mentioned book of A. Man. The new discoveries in the foundations of the Flavian house on the Palatine are not published yet. The wall-paintings of Rome belonging to the time after the destruction of Pompeii are partly mentioned by Man. But the series is enormously rich and few monuments are duly published. I shall mention first of all the new publication of the remains of wall-paintings in the domus aurea of Nero by F. Weege, 'Das goldene Haus des Nero,' Jahrb. d. d. Arch. Inst. 1913 (xxviii.), 127 foll, and some coloured plates in the Antika Denkmäler, as examples of a good publication of one of the most beautiful works of ancient decorative painting, completely destroyed after its first discovery.

I cannot enumerate all the monuments containing wall-paintings, partly published, partly annualished, which I brought together for the second volume of my A.d.p.S.R., the list would be too long. I shall mention only that the interest in these valuable remains, which seemed to be dead in the nineteenth century, awakened again in the twentieth century. Some scholars are busy in republishing certain valuable frescoes, badly and incorrectly published in the seventeenth and eighteenth centuries, partly from the extant originals, partly from ancient unpublished coloured drawings. I may remind the reader of the splendid publication of the pictures of Rome and Ostia preserved in the Vatican by Nogara, of many publications of

ancient drawings made after ancient tombs and buildings discovered in Rome in the seventeenth and eighteenth centuries; see R. Engelmann, Antike Bilder ans Römischen Handschviften, Berlin, 1909, and T. Ashby in the Papers of the British School at Rome, vii. (1914), 1 fall: and viii. (1916), 11 foll, compare A. Michaelis, Jahrb. d. d. Arch. Inst. xxv. (1910), 101 foll.: A.d.p.S.R. p. 371 foll, and G. Rodenwaldt, Gemülde aus dem Grabe der Nusonier, Röm. Mitth. 32, 1 foll., and of many valuable papers by T. Asliby and Mrs Strong giving good reproductions of forgotten or insufficiently known representatives of Roman wall-paintings; see Ashby, 'The Columbarium of Pomponius Hylas, Papers of the British School at Rome, v. (1910), 463 foll., Mrs. A. Strong, 'Ancient Wall-Paintings in Rome, I. The Palatine, ibid. vii. (1914), 114 foll.; 'H. The House in the via de' Cerchi,' ibid. viii. (1916). 91 foll. Compare, on the Caelian house, Gatti, Bull. Com. 1902, 147 foll. But I must say that the work of republishing unduly forgotten remains is only at its beginning. One must not forget how many valuable remains were discovered during the rebuilding and building of modern Rome in the eighteen-seventies. Meanwhile new monuments of the first importance come to light and await an adequate publication. I mentioned the paintings of the Palatine; now some beautiful Columbaria have been discovered under S. Sebastiano on the Via Appia, see Profume, St. Romani, ii. (1914), 417 foll.; Marrnechi, Bull. Com. 1916, 249 foll.; comp. Cronaca delle belle arti iv. (1917), 40 foll and Sparo in Neupolis i. (1915), 334 foll, and a building near Porta Maggiore is described as containing splendid decorations, see Cron. d. belle arti, iv. (1917), 41 and van Buren, The Year's Work in Class. Phil. xii. (1917), 4 foll. See also E. Katterfeld, Rom. Mitth. 1913, 28 foll. The wall-paintings in Ostia arc described and studied by F. Fornari in Studi Romani i. (1913), 305 foll,

To enumerate all the remains of ancient decorative wall-painting in the western provinces of the Roman Empire would be a hard and long task. I shall give but few references, more to illustrate than to exhaust the subject.

In Gaul and Belgium we have many remains of Roman decorative paintings found partly in Gallo-Roman towns, partly in villas. The best collection of these fragments may be seen in the Museum of St. Germain. Interest in these remains is now awakened among French scholars; new finds are sometimes well reproduced, (see e.g. E. Chanel, "Pointures murales de la villa gallo-romaine de Periguot hameau d'Izernore (Ain), Bull. arch. du com. d. tr. hist, 1909, 1, 3 foll, Pls. L-IV.); old drawings are republished (see Rev. arch. 1913 (xxi.), 195—drawings of Langlois from some frescoss of Lillebeare, compare Gaillard, Mém. Je la soc. d. ant. de Normandie, 1853, 50 foll.). A full list of the monuments would be of great importance.

The same may be said of the numerous remains in Britain scattered in many provincial museums and published in provincial publications. The best were discovered at Caerwent and partly published in the Account of the Executions (in Archaeologia). I give no references, because only a full list would be of use. My materials are still too fragmentary.

Roman Africa, so rich in mesaics, has supplied us with some important remains of decorative mural painting also. To illustrate this I reproduce a short list of publications sent to me in 1912 at my request by A Merlin. M. Merlin did not pretend to make a full statement, but the list as it is is very instructive. I must point out, that Merlin deals only with Africa proconsularis, excluding Numidia and Mauretania. To his enumeration I can append only one monument—the beautiful painted tomb of Guigarich near Leptis Magna, see C.R. de l'Acad. 1903, 358 and 360; l'Arte, 1903, 97; Nuovo Bull, di Archeologio Crist. 1903, 286.

The list runs as follows:

Gigthis: Ganckler, Compte vendu de la Marche du Service des Antiquités en 1902, p 25; Merlin, Ball. archéol. du Comité, janvier, 1912. Thinu: Massigli, Cat. du Musée de Sfax, p. 14; Fortica et Malahar, Bull. archéol. du Comité, 1910, p. 86 et suiv., notamment p 92; Merlin, Bull. archéol. du Comité, mai, 1912. El-Djem.; Merlin, Bull. archéol. du Comité, 1910, p. ceix.; 1911, p. clxiii. Sousse: Lacomble et Hannezo, Bull. archéol. du Comité, 1889, p. 110 et suiv., en particulier, p. 116 et Pl. H.; S. Reinach, Bull. archéol. du Comité, 1892, p. 416 et suiv., Pls. XXIX.-XXX.-XXXI; Gauckler, Gouvet et Hannezo, Musées de Sousse, p. 45. Oudna: Monuments Piot. iii. 1897, pp. 217-218: "lourdes rosaces géométriques, bariolées de couleurs criardes formant un réseau ininterrompu sur fond blanc." Voir aussi Catal. Musée Alaoui, Suppl., p. 39. Nos. 83 et suiv.

I add a few scattered notes on other western provinces just to show how

large and rich the material is.

Trier: F. Hettner, Illustr. Führer durch das Provinzialmuseum, 95 (painted tomb); Delmatia (Salonae): Bull. Dalm. 1900, 201, Pl. IV.; 1901, 110 foll. and Pl. XI.; compare 1892, 159 (painted tombs of early Christian time); Albania: Archaeologia, 1849, p. 60 foll. (painted tomb); Macedonia: Mel. de Vécols fr. de Rome. 1905, 92 foll. and Pl. H.; Aquincum (on the Danube), Hungary: many remains of wall-paintings of houses are published in the Hungarian periodical, Budapest Regiségéi, vv. i.-ix.; Serbia and Bulgaria: I published recently two painted tombs from Viminacium und Varna in Zapiski Russkago arch Obšestna (Depart of Classical and Byz-Arch.) viii.; more important is the tomb of Brestovik (near Belgrad), published by Vasic and Valtrovic in Starinar, 1906, 128 foll.

As regards Egypt, but few monuments have been published. In Alexandria some frescors from Gabbari have been studied by Thiersch, Zwei Graber der rom Kaiserzeit in Gabbari, Bull, de la Soc arch, d'Alex 1990, 3, ep. Botti, ibid. No. 2, 52 foll.; compare Edgar, Musée ég. ii 40 foll., and Rubensohn, Jahrb, d. d. Arch. Inst. 1905, 17; but the more important decorated walls in some rooms of the hig tomb of Kom-es-Shukafa still remain unpublished. Nobody has tried to reproduce and to save the most important series of tombs near Akhmim (Panopolis). One of them was described by Rubensohn, Arch. Anz. 1906, 130; two were photographed and one published by myself (AApSR p. 494, Fig. 92, 93). The wall-decorations in Luxor remain unpublished. To much later times belong the

decorative paintings of Bahwit and Bahawat; see Cledat, 'Le monastère et la necropole de Baonit,' Mém. publiés par les membres de l'Inst. fr. d'arch. or. xii. (1904); and von Bock and Smirnov, Matériaux pour servir l'archéologie de l'Egypte chrétienne (in Russian), St. Petersburg, 1901.

Palmyra: Pharmakovsky, Bulletin de l'Institut russe à Constantinople, viii. 3; Strzygowski, Orient oder Rom, 12 fall.; Cumont, Rev. de

Phist. d. rel. 62 (1910), 142 foll.

Phoenicia and Palestins: see Renan, Mission en Phénicie, Paris, 1864, 209, 395, 408, 411, 661; F. Dietrich, Zwei sidonische Inschriften etc., Marburg, 1855, 8; Vogué, Fragment d'un Journal de voyage en Orient, 27 foll.; Schick, Pal. Expl. F. Quart. Stat. 1887, 51 (newly discovered rockhewn tombs at Kolonieh).

Pergamon Schazmann, Ath. Mitth., 1908 (33), 437. The house of Kos is suil unpublished.

To Part II.

The leading ideas in my account of the earlier history of wall-painting are (1) the close connexion of the mural painting with the structure of the wall; (2) the independence of the Greek evolution from every foreign influence, and the direct evolution of the so-called first Pompeian style from the purely Greek structural decorative scheme. The problem of the origin of the first Pompeian style is hotly debated. My point of view remains very near to the point of view of Doerpfeld, though I arrived at it quite independently; see Doerpfeld, 'Zu den Bauwerken Athens, Ath. Mitth. 1911 (36), p. 52 foll. (deals with the Pinakotheke on the Akropolis of Athens), and Gesimse unter Wandmalereien (ibid, p. 86 foll.; deals with the halls of the Athena-sanctuary in Pergamon). I cannot see what influence Alexandria had on the first Pompeian style, nor can I acknowledge that the palace of Mansolus was decorated in the scheme of the first Pompeian style. The palace and its oriental prototypes were parents of the true incrustation style. I shall have to deal with it later. On the question of the origin of the first Pompeian style, see e.g. Th. Schreiber, Dis Brunnsnreliefs, pp. 13 and 48 Jahrb. d.d. Arch. Inst. 1896, 82; H. Thiersch, Zwei autike Grabanlagen, 12; Pfuhl, Jahrb, d. d. Arch, Inst. 1905, 54; Wace, Ann. of the Br. School at Athens, ix. 232 foll.; R. Pagenstocher, Sitzb. der Heid. Akad., Phil-Hist Klasse, 1917, 12.

More complex is the question of the origin of the second style—the architectural style, as I call it, to differentiate it from the first, or structural style. It is commonly accepted, on the ground of certain literary evidence and of monuments like the façades of the tombs at Petra in Arabia, that the architectural style originated in Asia Minor. The most important text, however—Vitr. vii. 5, 5, dealing with Apaturius from Alabanda—does not mention the house-decorations, but pictures to adorn a theatre stage. At the same time it must be taken into consideration that Apaturius lived not earlier than in the first century B.C. and was perhaps a contemporary of

Vitruvius. It is possible that he introduced into Asia Minor a foreign fushion coming from Italy. It is necessary to remember that he encountered opposition in Tralles and was obliged to substitute for his fantastic picture a more real one. Quite indecisive are the other texts, quoted by the defenders of the Asia Minor theory (e.g. Studniczka, Tropasum Traiani, 67, etc.), like the information on Agatharches and his work in the house of Alcibiades (Plut Per, 13; de amic, mult 5; Vitrus, vii, praef, 11) On the other side we have no monuments of Hellenistic times in Greece and Asia Minor showing a decoration of this style. There is no doubt that the tombs of Petra belong to about the time of Hadrian and to the same time or a little earlier belong other monuments of the same kind. Convincing on the other hand, is the negative evidence. None of the numerous wall-paintings of houses in Delos, Priene, Thera, Magnesia, Pantikapaion, Olbia which are partly, as in Delos, comparatively late (second-first century B.C.), no tomb in the East, in Egypt and in South Russia is decorated in the architectural style. On the other side, Italy and the western provinces are full of examples of this style belonging partly to the first century n.c. In view of this negative and positive evidence, it would be unmethodical to give no credence to certain authoritative statements of Roman authors, who affirm that the architectural style was born in Rome and was one of the forms of the Italian renaissance of the later Hellemstic time. This development was prepared by the poculiar form of the Italian so-called first Pompeian style. I have already mentioned the predominance in this style in Italy of vertical divisions and the tendency to fill upper parts of the wall with windows, niches, etc., or to give the impression of an opening of the wall with the view outside. Like the vertical divisions of the wall, it is an imitation of real architecture in the type of the Odeon of Pericles: see Plat. Per. 13; Vitr. v. 9, 1; Benndorf. Das Monnment you Adamklissi 144. The tendency to vertical divisions is not peculiar to Italy and to Rome. The real Greek architecture cultivated it during the whole Hellenistic age. New is the rich development both in real architecture and painted imitations. And this is just the peculiarity of Italy. One must not forget that the second and first century 8:0, was a time of economic decay of the East and at the same time of strong development of wealth and wealthier classes in Huly. Italy was filled with Greek artists, well gaid and employed to adorn the town palaces and villas of Roman wealthy citizens. No wonder if the new leading tendencies in art were developed not in Greece, Asia Minor, and Egypt, but in Rome, Italy and Gaul At the time when the East under the Roman emperors grew wealthier again and overwhelmed decaying Italy, the architectural style was no more the leading fashion; both the third and the fourth Pompeian styles having developed directly from the second, probably in Italy, perhaps the third style in Alexandria also (see Ippel, Der dritte pompeianische Styl, Berlin, 1910) were decaying in the second century A.D. and did not suit the tastes of the new world of the East, closely connected as they were with the old traditions of the ancient Eastern monarchies. So the architectural style remained confined to Italy and to the western provinces of the Roman Empire. The literary notices I alluded to are Plin. N.H. txxv. 116, 117 and Vitr vii. 5. I have dealt with them from the point of view of the history of architectural landscape painting in my 'Die hellemistisch-romische Architecturlandschaft' (Röm. Mitth. 1911, 139 foll.); compare G. Rodenwaldt, 'Megalographia,' Röm. Mitth. 1914, 194 foll. I have nothing to change in my views, as the question of the origin of landscape and the question of the origin of the architectural style have to be ireated separately and ought not to be mixed up.

The two new styles which came to supplant the structural style in the East and to fight the architectural style in the West—the flower and the

incressorion style-are both of Oriental origin.

The naturalistic flower style seems to have been born in Egypt. I cannot deal with the matter at length, but I must remind the reader of Egyptian monuments of the New Kingdom, like the painted tambs of Sheikh Abd-el-Gourna near Thebes, the tombs near Elephantine, and the discoveries made in the residence of Akhenaten both of mural decorations on stucco and of floor-decorations.

The flower-style has two sub-divisions—the carpet-style and the true flower-style. I have dealt at length with both in my above-mentioned article

on the painted glass vessels from Olbia and Kertch.

The leading idea of the carpet style is to reproduce on the wall or ceiling a rich woven carpet or stuff covered with flowers. A good idea of these stuffs and carpets can be derived from thousands of linen and woollen clothes found in the graves of Antinon and other towns of Egypt. They are chiefly adorned with naturalistic and stylised flowers.

It is worthy of mention that examples of the carpet-style are not to be found in South Russia, but are numerous in countries closely connected with Egypt. The most of them come from Kyrene (see Pacho, Foyage en Cyrémique) and North Africa (chiefly mosaics). Both countries stood under the direct influence of Egypt. I note also that the carpet-style found its way to the West, we can see rich Alexamirian carpets painted on the newly discovered ceiling of the Palatine of the time of the second style, and in many houses of Pompen of the time of the fourth style the walls are painted not in the architectural fourth style but in the new carpet style: the painter dropped the columns and prospects and covered the walls from the dado to the cornice with a rich carpet of yellow or red colour. L'could adduce about ten examples, all unpublished. For us it is the more interesting as our walldecoration, consisting of coloured paper adorned with naturalistic or stylised flowers derives directly from this Egyptian carpet system. A caroful examination of the remains of wall-painting in the western provinces shows that they were not innecessible to the new fashion.

The naturalistic flower-style differs from the carpet-style in that naturalistic or stylised flowers are not disposed symmetrically on the surface, forming mostly geometrical ornaments characteristic of the textile technique, but are strown in disorder on the surface, mixed up with plants, animals, birds, garlands, etc. This style is widely spread throughout the whole ancient world, beginning with the first-second centuries a.p. 16 derives directly from the naturalistic tendencies in Hellenistic and Roman art: mosaics of Delos and Pergamon, silver vessels with engraved ornaments, reproducing a mosaic (see Mathies Ath. Mitth, 1914, 114 foll.); painted clay-ressels of different kinds of the Hellenistic period, etc. show the same system. There is no doubt that the fashion derived from a Ptolemaic revival of old Egyptian decorative art, and it as very likely that here, too, real architecture gave the first impulse (see Studniczka, 'Das Symposion Ptolemaios II., Abh. der Sächs. Ges., Phil-Inst. Kl. xxx. No. 2; F. Caspari, Das Nilsehiff Ptolemaios IV, Jahrb. d. d. arch. Inst. 31 (1916), 1 foll : A Frickenhaus, Griechische Banketthäuser, Johrh, d. d. arch, Inst. 32 (1917), 114 fell.). But the movement grew slowly and invaded the mural decoration not earlier than in the first century a.c. The growth of the fashion can be studied in the painted tombs of Kerteh. The earliest example, the vault of Zaizeva, belongs to the time of Augustus. In the second half of the first century A.D., and in the whole second century it is the dominating style. But Kertch is not alone. The same system dominates the textiles of Egypt (the earliest belong to the second century a.it); examples of wall-paintings of this style are to be found as early as in Pompeii (decorations of some little house-shrines); many sepulchral vaults in Rome are painted with strewn flowers, we can follow the spreading of the fashion on floor-mosaics in Africa and on tombs from Leptis Magna and Paimyra, as well as on tombs of Phoenicia, Salonae in Dalmatia, Serbia, and Bulgaria. As we have seen the fashion is not confined to tombs and the spreading of it cannot be explained by religious motives. Mosnics and textiles have nothing to do with tombs, and the house of Attalus in Pergamon, painted in Roman times, as well as many houses in Rome and many rooms in the entarombs, demonstrate that dwelling-houses as well were decorated in the same fashion.

The flower-style is combined in Kertch with the real succustation style This style, as already indicated in the text of my article, has nothing to do with the first Pompeism style. It is a kind of mosaic consisting of big slabs of coloured marble forming geometrical designs. The whole development is traced by Vitravius and Phny. The style originated in Asia Minor and was certainly imitated from Persian buildings; the house of Mausolus was the first example known to Pluny and Vitruvius, see Plin. N.H. 36, 47; Vitr. ii. 8, 10; the further evolution is depicted by Phny, N.H. 35, 2; 36, 134 and 114 The innovation consisted in adorning the walls, cornings and floors with different designs formed by coloured marbles, coloured glass, metals, ste-It has nothing to do with the much earlier mossic (see E. Engelmann Berl. Phil. Woch, 1907, 1653, against R. Delbrück, Hellenistische Bauten in Latium, 50 foll.; Ganckler, who first expressed in Daremberg et Saglio, Dut. ant. art. Musicum opus, the wrong opinion, has since agreed with Engelmann), and was characterised by Pliny with the expression lapade pingere. This heavy and pompous style is a right expression of the strong influence of the ancient Orient on the Roman Empire. We must

study it not from originals in the houses and palaces, but from copies in tombs and more modest houses, where these decorations were imitated in colours on stuccoed walls. Examples of this painted reproduction are to be found everywhere. The earliest are to be found in Pompeii: the latest decorations of the fourth style show constantly a base adorned with marble incrustation. Afterwards in the first and following centuries we have examples everywhere; in dwelling houses, catacombs and churches in Rome, also in tombs, in the above-mentioned tombs of Egypt, in Palmyra, etc., etc. In the West the new style had to struggle like the flower-style and in combination with it against the latest architectural style. We know that the vanquisher was not the architectural style, although it had a revival in the early Renaissance decoration of private houses in Italy and elsewhere. For the late Roman Empire and the Dark Ages the flower and incrustation decorative style was the style, a style which finally overpowered all its rivals and gave rise to many new and very important creations.

M. ROSTOYTZEFF.

CLEOSTRATUS.

In the indexes to most histories of astronomy you will seek his name in vain, and, where you do find it, you are referred to a few jejune paragraphs or more often to a single sentence. Bolt in his Sphaero (1903) honours him with three pages (191-194), based on a passage in Pliny and a scholium on Euripides, but he misinterprets both passages and holds one of them to be based on a misunderstanding of some older writer. Nearly all the passages bearing on him are to be found with notes of varying value in Diels, Fragmente der Vorsokratiker³, ii. (1912), pp. 197, 198, where they occupy rather more than a page. Some valuable comments and one reference which is not in Diels will be found in Breithaupt's treatise Its Parmentsco Grammatics (1915). And yet, for all this neglect, there are attributed to Chestratus two capital contributions to Greek astronomy, viz. the introduction of the signs of the zodiac and the authorship of the eight years eyele of intercalations.

The following is, so far as I know, a complete list of passages bearing on Cleostratus.

 From a life of Aratus, excerpted in E. Maass's Commentariorum in Aratum reliquime (1898), p. 324;—

Βόηθος δὶ ὁ Σιδώνιος ἐν τῷ α περὶ αὐτοῦ [sc 'Αράτου] φησιν οὐχ 'Ησιόδου ἀλλ' 'Ομήρου ξηλωτήν γεγονέναι: το γὰρ πλάσμα τῆς ποιήσεως μείζου ἡ κατὰ 'Ησίοδον πολλοί γὰρ και ἄλλοι Φαινόμενα ἔγραψαν καὶ Κλευστρατος και Σμίνθης καὶ 'Αλέξανδρος ὁ Δίτωλος καὶ 'Αλέξανδρος ὁ Εφέσιος και 'Αλέξανδρος ὁ Αυκαίτης καὶ 'Ανακρέων καὶ 'Αρτυμίδωρος καὶ Ιππαρχος καὶ ἄλλοι πολλοί, ἀλλ' ὅμως πάντων λαμπρότερου ὁ 'Αρατος ἔγραψεν.

In this passage Κλεόστρατος is a correction made by Bergk and published by Meineke, Zeitschrift für die Alterthumswissenschaft (1843), p. 23, for the MS. reading Κλεοπατρης.

The writer does not make it clear whether he gives this list on his own authority or cites it from Boothus, but the inclusion of Alexander of Ephesus shows that the list cannot have been compiled till after the time of Boothus.

(2) From a catalogue of writers on Aratus, edited by Masse in A. Kiessling's Philologische Untersuchungen, xii. (1892), p. 121, reprinted by Breithaupt, loc. cit., pp. 49, 50:—

οι περί του ποιητού συνταξάμενος.

"Ατταλος 'Ρόδιος. 'Αρίσταρχος Σάμιος. 'Απολλώνιος γεωμέτρης. 'Αντύγονος γραμματικός. 'Αγησιάναξ. 'Αρίστυλλοι δύο γεωμέτραι. Βόηθος. Γεμίνος. Διόδοτος. Δίδυμος Κνίδιος. 'Ερατοσθένης. "Ερμιππος. Εὐαίνετος. Ζήνων. 'Ηλιόδωρος στωικός. Θαλής. 'Ίππαρχος Βιθυνός. Κράτης. Πύρρος Μάγιης. Παρμενίσκος γραμματικός. Σμίνθης. Τιμόθεος.

Εδαίνετος έτερος. "Εσμιππος περιπατητικός. Καλλίμαχος Κυρηναίος.

Κλεύστρατος Τενέδιος. Νουμήνιος γραμματικός. Παρμενίδης.

"Απαλλώνιος γραμματικός, "Αρίστυλλος μέγας, "Αρίστυλλος μικρός. "Αρίσταρχος γραμματικός, "Αριστοφάνης, "Αλέξανδρος Αίτωλός, "Αλέξανδρος Έφεσιος, Δίδυμος πονηρός.

A similar but shorter list which does not include the more of Cleostratus is found at the close of a MS, of (ieminus's Elasywy) six τὰ Φαινέμενα, printed with apparatus by Maass in Hermes, κνί. (1881), μ. 388. But in this case the word πόλου takes the place of ποιητοῦ in the title, and there can be no doubt that Von Wilamowitz-Mollendorff (A. Kiessling's Philologische Untersuchungen, iv. [1881], μ. 330) is right in reading πόλου in the longer list also. Maass has shown (A. Kiessling's Philologische Untersuchungen, xii, μμ. 123–139) that in this instance πάλος is used in the sense of 'sky'. Here again Κλεόστρατος is the result of a correction. The MS, reading is Καλλίστρατος, corrected by Meineke, Philot. exercit. in Athen, i. 1843), μ. 23, cited by Maass.

- (3) Theophrastus, περί σημείων, i. 4 ed. Winnier (Paris, 1866), p. 389. διό και δημθοί γεγένηνται κατά τόπων τινάς διστρονόμοι ένωι οδον Ματρικέτας έν Μηθύμνη ἀπό τοῦ Λεπετύμεον, και Κλεόστρατος ἐν Τενέδφ ἀπὸ τῆς Τόης, και Φαεινός 'Αθήνηστε ἀπὸ τοῦ Λυκαβηττοῦ τὰ περί τὰς τροπὰς συνείδε, παρ' οὰ Μέτων ἀκούσας τὸν τοῦ ἐνος δέωντα είκοστε ἐνιαντὸν συνέταξεν. ἢε δὲ ὁ μὲν Φαεινός μέτοικος 'Αθήνηστε ὁ δὲ Μέτων 'Αθηναῖος. καὶ ἄλλοι δὲ τὸν τρόπον τοῦτον ήστρολόγησαν.
 - (4) Seylax 78, ed. Fabricius (1878), p. 27 :-

Καὶ νήσος κατά ταύτα κείται Τένεδος και λιμήν, όθεν Κλεοστρατος ο άστρολογός έστι.

- (5) Athenueus, vii. 278 A (ed. Kaibel, ii. [1887], p. 115) :—
- ό δε όψοδαιδαλος 'Αρχέστρατος ει τῆ Γαστρολογία, ούτως γαρ επιγραφισθαί φησι Αυκόφρων εν τοῖς περί Κωμφδίας, ὡς την Κλεοστριίτου τοῦ Τενεδίου 'Αστρολογίαυ) περί τῆς ἀμίας φησίν οῦτως.

Here 'Αστρολογίαν is a correction by Heringa for Γαστρολογίαν.

(6) Chron. pasch. ed. Dindorf in Migne's Patrologia Graeca, 92 (1865),eol. 301 :—

τούτφ τῷ ἔτει Θαλῆς ὁ Μιλήσιος φιλόσοφος ἐν Τενέδφ ἀπέθανεν,

 Leo Grammaticus, ed. Bekker, Corpus Scriptorum Hist. Byz. xxvi. (1842), p. 36—

κατά τούτους τούς χρόνους Θαλής Μιλήσιος ἐν Τενέδφ ἀπέθανε καὶ Σίβυλλα Ερυθραία ἐγνωρίζετο.

(8) Pliny, Nat. Hist. ii. 8 (6), 30.

Circulorum quoque caeli ratio in terrae mentione aptins dicetur, quando ad eam tota pertinet, signiferi modo inuentoribus non dilatis. obliquitatem eins intellexisse, hoc est rorum fores aperuisse, Anaximander Milesius traditur primus Olympiade quinquagesima octaua, signa deinde in eo Cleostratus, et prima arietis ac sagittarii, sphaeram ipsam ante multo Atlas.

Euripides, Hhesas, 527-537 (ed. Murray, 1909).

τίνος ά φυλακά; τις άμείβει τὰν έμών; πρώτα δύεται σημεία καὶ ἐπτάποροι Πλειάδες αἰθέριαι: μέσα δ' αἰετὸς οὐρανοῦ ποτάται. ἔγρεσθε, τὶ μέλλετε; κοιτάν ἔγρεσθε πρὸς φυλακάν. οῦ λεύσσετε μηνάδος αἴγλαν; ἀὼς δὴ πέλας, ἀὼς γίγνεται, καὶ τις προδρόμων ὅδε γ' ἐστίν ἀστήρ.

Scholium (Schwartz, Scholia in Europidem, ii. [1891], p. 340) (I have for the most part rejected Schwartz's conjectural amendations.)

Κράτης άγνοεῖν φησι του Εὐριπίδην την περί τὰ μετέωρα θεωρίαν διὰ το νέων έτι είναι ότε τὰν 'Ρήσων εδίδασκε. μὴ γὰρ δύνασθαι Πλειάδων καταδυομένων «τούς.' τοῦ ἀετοῦ μεσουρανεῖν. ὑπὸ γῆν γὰρ ἐστι τότε ὁ αἰγόκερως, ἐψ΄ οῦ ὁ ἀετοῦ ἴέρυται, και έτι Πλειάδων δυομένων ὑπερ μὲν γῆς εἰσὶ ζώδια τάδε, ταῦρος δίδυμοι καρκίνος λέων παρθένος ζυγός. ὑπὸ γῆν ὁὲ τάδε, σκορπίος τοξότης αἰγόκερως ὑδροχόσς ἰχθύς κμιός. και ταῦτα μεν ὁ Κράτης. ἔοικε δὲ ὑπὸ τῆς φράσεως ἀμφιβόλου «αῦσης» κεκρατῆσθαι, τὰ γὰρ πρώτα σημεῖα και τὰς Πλειάδας ὑήθη καταδυεσθαι λέγειν τὸν Εὐριπίδην. τὸ δὲ οῦχ οῦτος ἔχει, ἄλλὰ τὰ μὲν πρώτα σημεῖα τῆς φυλακῆς φησι δύεσθαι, τὰς δὲ Πλειάδας ἀνατέλλειν. πῶς γὰρ ἐπὶ καταδυομένων εἰπεν αἰθερίας αὐτάς: ὅστε τριχύθεν τὸν καιρὸν ὑπὸ «τῶν» φυλάκων δηλοῦσθαι, ἀπὸ τῆς δύσεως, ἀνατολῆς και μεσουρανήματος. ὁ μὲν οὖν Παρμενίσκος πρῶτα ση μεῖα φησὶ λέγεσθαι τὰς τοῦ σκορπίου πρώτας μοίρας διὰ το ὑπὸ τῶν ἀρχαίων οῦτως αὐτὰς λέγεσθαι, καὶ ὅτι ταύταις ὁ Βοωτης ᾶμα ἄρχεται καταδύεσθαι. Κλεόστρατον γοῦν τον Τενέδιου αρχαίον οῦτως.

άλλ' οπόταν τρέτον ήμαρ έπ' ογόωκοντα μένησι, σκορπίου είς άλα πίπτει άμ' ήοι φαινομένηψι τούτο δὲ παραδείξας ὁ Παρμενίσκος ὅτι καταδύεται τὰ πρώτα σημεία τοῦ σκορπίου, καὶ τὰ περὶ τῆς Πλειάδος ἐπιτολῆς ἐπέξειστες 'ὅταν γὰρ,' φησίν, 'Κύριπίδης λέγη καὶ ἐπτάποροι Πλειάδες αἰθέριαι, οῦ δύεσθαι τότε αὐτάς, ἀλλ' ἔμπαλιν ἀνατέλλειν ἐκ τοῦ ὑπὸ «γῆν» τμήματος εἰς τὸ ὑπὲρ «τὸτ» ὁρίζουτα ἀνιούσας καὶ τοῦτο εἶναι τὸ καὶ ἐπτάποροι Πλειάδες, οἶον εἰς τὸν ὡς πρὸς ἡμῶς οὐρανὸν ἀφικνούμενοι, ταῦτα δὲ κασταστησάμενος, ὁμολογεῖ, ὑησί, 'τοῖς Εὐριπίδον τὰ φαινόμενα, τὰ μὲν πρῶτα σημεία τῆς ὡρας εἰς δύσιν κεγώρηκεν, ἡ δὲ Πλειάς ἀνατέλλει, ὁ δὲ ἀετὸς πρὸς τὸ μέσον κεχώρηκε.'

Compare Theon Alexandrinus on Aratus, Phoenomena, 719, in Muss, Commentariorum in Aratum Reliquiae, p. 470;—

"Οτε λοφεή τε και ούρη και καθ δυ καιρόν συμβέβηκε τοῦ Κήτους τήν τε λοφιάν και την ούραν έκ τῶν νοτίων μερῶν ἀνατέλλειν, τότε δη και ὁ Αρκτοφύλαξ ἄρχεται μετὰ τοῦ πρώτου ζωδίου, τουτέστι τοῦ Σκορπίου, δύνειν, δε ἐστι κατὰ διάμετρον τῷ Ταύρω.

(10) Hyginus, Poeticon Astronomicon, ii. 13, ed. Chatelain and Legendre, Bibliothèque de l'École des bautes études, 180 (1909), p. 27, fully cited by Braithaupt, De Parmenssoo Grammatico (1915), p. 47:—

Hos autem bodos Cionstratus Tenedius dicitur primus inter sidera ostendisse.

(11) Censorinus, De die natali, xviii. 4-6 :-

Hoc quoque tempus [i.e. quadriennium], quod ad solis modo cursum nec ad lumae congruere uidebatur, duplicatum est et octaeteris facta, quae tunc enneaeteris uocitata, quia primus eius annus nono quoque anno redibat, hunc circuitum nere annum magnum esse pleraque Graecia existimanit, quod ex annis uertentibus solidis consinret, ut proprie in anno magno fieri par est, nam dies sunt solidi... una minus centum, annique uertentes solidi octo, hanc octaeteridam uulgo creditum est ab Eudoxo Cuidio institutam, sed hanc (alii Jahn) Cleostratum Tenedium primum ferunt conposuisse et postea alius aliter, qui mensibus narie intercalandis suas octaeteridas protulerunt, ut fecit Harpalus, Nauteles, Menestratus, item alii, in quis Dositheus, cuius maxime octaeteris Eudoxi inscribitur. ob hoc in Graecia muitae religiones hoc internallo temporis summa caerimonia coluntur, Delphis quoque Iudi qui uocantur Pythia post annum octaunm olim conficiebantur.

All that we know of Cleostratus is deduced from these eleven passages. The first seven need not detain us long. We learn from them that he belonged to Tenedos, and it will be observed that according to the Paschal Chronicle and "Leo Grammaticus" Thales died at Tenedos, from which Von Wilamowitz-Mollendorff (cited by Diels, Fragmente der V. 1. p. 8) has inferred with great probability that there was a school tradition which regarded Cleostratus as the successor of Thales. As the traditional date for the death of Thales is 545 n.c., this would place the floruit of Cleostratus in the latter half of the sixth century n.c. This conclusion is confirmed

by the passage cited from Pliny, which places Amximumder's discovery of the obliquity of the ecliptic in the 58th Olympiad, i.e. in 548-544 n.c., and Cleostratus's work on the signs of the zodiae at a later date, while further confirmation is obtained from the passage cited from Censorinus, according to which Cleostratus produced his octaeteris before Harpalus who is described in the Laterculi Alexandrini (ed Diels, Abhandlungen der königlich preussischen Akademie der Wissenschaften [1904], pp. 8, 9) as the engineer of Xerxes' bridge over the Hellespont (481-0 n.c.).

We also learn that Cleostratus wrote a poem called Aστρολογία, from which the becameter verses cited by Parmeniscus are presumably derived. We do not know whether he left any other writings. It would appear that this work dealt with cambueva, that is, with the successive risings and settings of different stars and groups of stars. This part at least of the work may well have been based on his own observations. for observations made in a different latitude would not hold for Tonedos. Moreover, there would appear to have been little written in Greece on this subject before Classtratus, and the passage from Theophrastus shows that Classtratus left a reputation as an observer. Like Hesiod he doubtless introduced solstices, if not equinoxes, into his series of phenomena and his method of observation is at least a sign of the care with which he attempted to obtain accumic egsults. The determination of the exact date of a solstice remained a difficulty throughout the whole course of ancient astronomy. Even Ptolemy deduced from his own observation a date 38 hours later than the true date for the summer solstice. What Theophrastus probably means is that Cleostratus watched morning by morning the exact spot on Mount Ida where the winter sun rose, and tried to determine on which day the sunrise point lay furthest west. The importance of the mountain would then lie in the fact that it gave a clearly defined and rapidly varying horizon, which made it easier to compare the sunrise point of one day with the sunrise point of the next. The day on which the sun rose furthest to the west would of course by the day of the winter solstice. But, since for some days on either side of the solstice there is very little variation in the sunrise point, it would be impossible to determine the solution with complete accuracy by this method. I owe this explanation to Redlich Der Astronom Meton and seen Zyklus (1854) p. 34 cited by Ginzel, Handbach der mathematischen und technischen Chronologie, in (1911), p. 375. It will be noted that all the observers named by Theophrastus

the octaeters remained an astronomical conunit, and there is every remain to believe that the succession of octaeterisiss and other cycles produced by the astronomics of the fifth century a.c. did not own their origin to defects in earlier systems proved by experience, but were exercises in the art of combining days, months, and years, of which the relative mean durations had been learned from Babyton.

Diele, Frequence der Vorsebratiker, il.
1988, argues that several octasterides must
have passed before the necessary corrections
small be discovered, and, therefore proposes
to place Cleostratus about 520 n.c. The date
to reasonable enough, but the argument implace that Cleostratus's estactoric was used in
practice and Harpains's corrections were
based on experience. There is no granul for
either assumption. As will be seen later,

used mountains to the south-east or north-east available for the observation of sunrise at one or other solstice.

I come now to my eighth excerpt, the passage from Pliny, which has caused great trouble to the commentators. It will be observed that Pliny states that he will not postpone montion of the inventors or discoverers of the zodine or 'signifer' though he will postpone the discussion of the circles of the stars. From this we may infer that Anaximander and Cleostratus mentioned in the next sentence are to be regarded as 'sigmiferi innentores.' The meaning of the next sentence down to 'quinquagesima octana' is clear emough Amaximumder of Milatus is said to have first recognised the obliquity of the zediac, that is to have opened the door of the subject. in the 58th Olympial.' In the next clause with 'Claostratus' as subject we have to supply the verb and also the noun qualified by 'prima.' If we treat the sentence from a purely grammatical point of view without regard to the sense, we should naturally supply 'intellexisse traditur' from the previous clause as the verb, while 'prima' should either qualify 'signa' supplied from the first half of the clause, or should mean first things or first points without a noun understood. This clause would then mean Afterwards Cloostratus is said to have recognized the signs in it, i.e. in the zodiac and the first points or first signs of Aries and Sagittarius. The fact that no commentator has yet taken the passage in this literal way is doubtless, due to their failure to find a sense for it. One translation that has found currency makes signa 'some of the signs' and then understands that Aries and Sagittarins were the first signs that Classtratus introduced. Boll, for, cit, recognizes that the passage must mean that Cleostratus introduced all the signs, but fails to find a reasonable sense for the second half of the clause, and supposes that Pliny's authority had stated that Cleostratus had been the first to introduce Aries and Sagittarius into the zodiac. No commentator has grasped that 'prima signa' was a technical term, being the Latin translation of wpore supera, which occurs in the passage from the Rheses of Euripides and the scholium upon it, which make up my minth excerpt. I take it then that what Pliny asserts is that Closstratus is said to have recognized the signs in the zodiac and the πρώτα onueta of Aries and Sagittarius.

What, then, is the meaning of mpoora σημεία

An answer is supplied in the math excerpt by Parmeniscus. He says that Euripides gives this name to the first degrees of Scorpio because they are so named by the άρχαῖοι and adds that Bootes sets simultaneously with these. He then proceeds to cite Cloostratus of Tenedos άρχαῖος. But when the third day beyond eighty remains, or But when it or he remains the third day beyond eighty something of Scorpio falls into the brine at the time of the appearing of dawn. Doubtless the missing phrase on which the genitive Σκορπίου depends is πρώτα σημεία οι σημήτα πρώτα οι words to that effect; otherwise there is no point in Parmeniscus's citation of these lines as illustrative of the meaning of πρώτα σημεία. It would follow them that the phrase πρώτα σημεία was used by Cleostratus with the genitive of

the name of the sign, just as 'prima [signa]' is by Pliny and as πρῶτα σημεῖα is again by the scholiast in the sentence immediately following. It may be observed that the scholiast also uses the phrase πρῶτα σημεῖα τῆς ἀνλακῆς and seems to eite from Parmeniscus the phrase πρῶτα σημεῖα τῆς ὅρας. It is true that in both these instances critics have bracketed the mysterious genitives, but that hardly seems a fair way of getting rid of them. If there were other πρῶτα σημεῖα beside those of Scorpio the meaning would be clearer. The πρῶτα σημεῖα of Scorpio are the πρῶτα σημεῖα of this particular watch (ψυλακή) or season of the year or night (ὧρα). And we see that Pliny knows πρῶτα σημεῖα of two different signs.

It is said to see what terrible havor has been made of this passage by the innocent little phrase sai but tabrais of Booths and appears sarabbeadar. Grammar and trigonometry conspire to render impossible that these words can represent any statement by Cleostratus. But Schwartz and Boll, Diels and Von Wilamowitz-Möllendorff, have decreed that they do. Ignoring trigonometry and having in textual emendation a sovereign spell before which all grammatical difficulties vanish, they have dragged this phrase or words to like effect either into the text or into the exposition of the lines from Cleostratus. Poor Cleostratus! we have only two lines from him. Could not the editors have let them alone?

Let us attend for a moment to the construction. Down to the second λέγεσθαι the sentence is clear enough. Parmeniscus says that the first degrees of Scorpio are called πρώτα σημεία because they are so called by the άρχαῖοι, and that, etc. Surely the phrase introduced by and that (καὶ ὅτι) can depend on φησι and φησι only. Parmeniscus says So the statement about Bootes is made by Parmeniscus on his own authority. It could not have been made by Cleostratus, for at Tenedos in the time of Cleostratus, Bootes did not begin to set with the first degrees of Scorpio; on the contrary it did not begin to set till Scorpio had wholly sunk below the horizon.

Why then did Parmeniscus drag in this otiose comment? It must be remembered that Parmeniscus was not merely a commentator on Euripides. He was also the author of a work on the sky, three fragments of which are preserved to us. (Numbers 18, 19, 20 in Breithaupt, op. cit.) He doubtless, knew his Aratus and the controversies that raged round him. The author of a polemic against Crates was not likely to miss an opportunity of expressing his opinion on a debated question of astronomy. Hipparchus (ii. 2, cit. Mamitius [1894], pp. 140–150) discusses at great length with what sign Bootes begins to set and in opposition to Aratus, Eudoxus, and Attalus holds that Scorpio is the sign in question. It is clear from the passage which he cites from Attalus that he was not the first to hold this opinion, and it is interesting to find his view endorsed by Parmeniscus.

When Parmeniscus explains that πρώτα σημεία means the first degrees of Scorpio we must not take him too literally. Parmeniscus and his contemporaries were doubtless in the habit of specifying the degrees of the invisible ecliptic that rose and set with different stars. Hipparchus notices such degrees for every constellation and possessed instruments for observing them. But we may rest assured that Cleostratus did nothing of the kind, much less did Euripides or whoever wrote the Rhesus imagine that a Trojan guard measured the movements of the invisible ecliptic. The moora σημεία are, doubtless, not the first degrees of the sign of Scorpio on the ecliptic, but the first stars of Scorpio to set. The Greek anusion, unlike the Latin signum, is never a zodiacal or other constellation, but either a mathematical point, such as the first degree of Scorpio and the solstitial and equinoctial points on the ecliptic or else an indication, such as the rising or setting of a star or group of stars which might indicate the time of year or the time of night. It is clear that the word is here used in the latter sense, except that it is not the abstract setting of the star but the concrete star setting that is called σημείου. And thus interpreted, the setting of the πρώτα aqueia tallies exactly with the meridian passage of Altair, the central and brightest star of Aquila, if we make the computation either for Athens or for Troy, and for the middle of the fifth century u.c.

I wish we could as easily save our author's credit in the matter of the Pleiades. I cannot with Crates believe him to have been so ignorant of astronomy as to have referred to the setting of the Pleiades. The Pleiades that are allegias are the Pleiades that have risen from the stream of ocean and reached the upper air. But no Pleiades should have been in the sky when the Eagle was in midheaven. They should have been about 10° below the borizon at that time. Assuming that they could be seen when their central and brightest star Aleyone was at a true altitude of 2', I find that Altair would have passed the meridian by an hour and three minutes if we compute for Troy, by an hour and six minutes if we compute for Athens. So far from being on the meridian it would be in azimuth 27° or roughly south-south-west at Troy, or in azimuth 29, roughly south-west by south, at Athens. The inports sinusia would have set long ago, but other stars in Scorpio would still be visible, for Scorpio should have taken an hour and twenty-six minutes to set at Troy, an hour and seventeen minutes at Athens. It is obvious that if the meridian and setting stars could not be defined more exactly than this, they would be of no use for timing the watch. So there was something in Crates objection after all. The author of the Rhesus does show an imperfect acquaintance with astronomy. It is true that the Pleiades would disappear rather more than half an hour before Scorpio began to appear on the eastern horizon, and our author might infer that the Pleiades would rise an equal interval before Scorpio began. to disappear in the west and thus be ailleptas or up in heaven when that phenomenon occurred. But the problem is not so simple.

Breithaupt has expressed the opinion that $\pi\rho\tilde{\omega}\tau\alpha$ $\sigma\eta\mu\tilde{\epsilon}i\alpha$ means the first of the two signs of Scorpio, the first sign being what we call Libra, but what many of the Greeks regarded as the Scorpion's claws and named $\chi\eta\lambda\alpha i$. It is certain, however, that this is not what Parmeniscus understood by the first degrees of Scorpio, and, as we have seen, the signs of the zodiac are

never called σημεία. Moreover Scorpio at Tenedos in the time of Cleestratus would begin to set before Libra.

The reference to the ἀρχαῖαι is interesting. Of course an emendator—on this occasion Dindorf—has proposed to make Cleostratus ἀστρολόγου instead of ἀρχαῖοι. I do not think it has ever been noticed that of ἀρχαῖοι in Hipparchus and Geminus when not qualifying a nonn regularly means the early astronomers, beginning with Thales and descending as far as the third century n.c.³. Had this fast been realised, chronologists would not with one consent have mistaken the astronomical calendars described in the eighth chapter of Geminus for successive official calendars of Athens. The use of the same term by Parmeniscus suggests that it had acquired something of a technical meaning.

I confess that I am umble to identify either the phenomenon from which Cleostratus reckaned his 83 days or the προδρόμων ἀστήρ of the Rhesus.

We may now sum up the references to mpora squeia and see what they have in common. We have seen that both in the passage cited from Cleostratus and in the Rhosus the reference is to certain stars in Scorpio, presumably the first to set, and we may further notice that in both passages the setting is either at the appearance of dawn or when dawn is at hand. In other words the reference is to a morning setting, or to give it its technical name, a cosmical setting, and this raises the question whether the name πρώτα σημεία was applied to these stars in relation to their cosmical setting only. I have no doubt that it was so. If we turn to Gemmas's Calendar, we shall find Euctemen cited (Cleminus ed Manitius 1808, p. 228) for #ap Σκορπίου οι πρώτοι άστέρες δύνουσω, where the reference is to the cosmical setting of the first stars in Scorpio. Enctemon we know was an apyalor and a contemporary of Europides. The adjective wpieros applied as here to particular stars is, so far as I know, unique in the Greek calendars. It is certainly unique in the calendars cited by Geminus, I take it then that Euctemon's setting of the wpwron darepes of Scorpio is the same as the setting of the moora σημεία. With this we may compare further the passage that I have excerpted from Theon. the setting Scorpio is described as to mourtor Codior, though in this case there is nothing to differentiate the cosmical setting from any other setting.

That the phrase where on the could not be used of the first stars of any and every constellation is proved not only by the absence of evidence for its use in respect of the constellations generally, but also by the use of the phrase in the Rhesus, where no constellation is named but Scorpio is clearly intended; from which it may be inferred that Scorpio was either the only constellation of which it could ever be said πρώτα δύεται σημεία or else the only constellation to which the phrase would apply near the particular time of the night.

^{*} Clearthen is included among the eggaco in Geminus, avi, 2. From the way in which the Appain are habitually criticised by Himparchus.

is would appear that they were differentiated from the more numbers astronomies by the inferiority of their mathematical methods.

Now in what sense are the first stars of Scorpio to set cosmically antitled to be called \(\pi \rho \tau \) as distinct from other stars! To this there is a simple answer. If we arrange the different zodiacal constellations in the order in which they began their cosmical settings at Tenedos about 520 kc, we shall find that Scorpio comes first after the vernal equinox. The vernal equinox was the starting-point of the Babylonian year and of the Babylonian zodiac. Cleostratus, as we shall see, derived his zodiac from Babylon, and therefore Scorpio took the first place among the cosmical

settings.

If then we have mporta anjuela of Scorpio in respect of cosmical settings, is there any other series that we might expect! The morning setting would naturally be matched by the morning rising, and the zediacal constellation which first began to rise heliacally after the vernal equinox was Aries. And, sure enough, Aries is one of the constellations of which Pliny tells us that Chostratus recognised the 'prima signa.' But I have sought in vain for any similar explanation of the prima signs of Sagittarius. The presence of Sagittarius and the absence of Scorpio are equally striking in the Pliny passage. If Breithaupt is right in supposing (op. cit. p. 33) that Pliny drew his information from Varro, and Varro his from Parmeniscus, there is no room for the theory of a rival tradition here. The πρώτα σημεία of Scorpio are abundantly attested and not least by Parmeniscus's evidence; and I incline to the opinion that either Varro or Pliny has erroneously substituted Sagittarius for Scorpio. This seems easier than to suppose that Scorpio has been erroneously omitted and that Sagittarius was inserted for some valid reason which has hitherto escaped detection.

If Parmeniscus, as would appear, took the πρώτα σημεία to mean the first degrees of the sign measured on the invisible soliptic; if, like Hipparchus he began his series of signs with the actual spring equinox, and if he observed at Alexandra, he would find that the setting of the πρώτα σημεία of Scorpa followed the rising of the πρώτα σημεία of Aries by an hour and thirty-one minutes. On the same assumption there might be about a month between the helineal rising of the one and the cosmical setting of the other. If these assumptions are not all correct, we must amend these figures, but there can be little doubt that to him there was a perceptible interval between the two phenomens, which would account for the phrases τὰ πρώτα σημεία.

της φυλακής and τα πρώτα σημεία της ώρας.

Pliny's statement, then, as interpreted and vorrected in the light of the passages cited, means that Cleostratus introduced the signs of the zodiac and the πρώτα σημεία of Aries and Scorpio. The statement about the signs of the zodiac is perfectly consistent with what we know from other sources. Homer and Hesiod give us no zodiacal stars except the Hyades and Pleiades and give us no zodiacal constellation at all. The same applies to the fragments of Massacus, Thales, Phocas, and Anaximander, and with one possible exception to the fragments of the derpovopio which passed under the name of Hesiod. The one exception is the reference to the Scorpion in fragment 182 (ed Rzach, [1913], p. 202). It is true that Franz Leipziger

Studien zur classischen Philologie, xii. (1890), p. 357, fellowed by Von Wilamowitz-Möllendorff, Nachrichten von der königt. Gesellschaft der Wissenschaften zu Göttingen, Hist. phil. Klasse (1895), p. 232, has held that this fragment may come from some other part of Hesiodic literature, while Rehm (Mythographische Untersuchungen über griechische Sternsagen [1896], p. 47) has on this ground alone placed the 'Aστρονομία later than Cleostratus. There is also a school, represented powerfully by Maass (Kiessling's Philologische Untersuchungen, xii. pp. 268-272), who place the poem later than Aratus. But it must be confessed that the view that at present holds the field is that the fragment in question belongs to the аатрогодда and that the аатрогодда is older than Cleostratus. The writer who has done most to establish the early date for the Hesiodic αστρουομία is: Nilsson in Rheinisches Museum, lx (1905), p. 180 ff. After citing two passages (Hesiod, fragments 263 and 38), where Aratus may conceivably be held to be imitating Hesiod, though there is nothing to show that the fragments of Hesiod come from the aστρονομία, he applies an argument which has carried weight with Diels (Fragmente der Vorsokratiker, ii. p. 195) and Rzach (article 'Hesiodos' in Pauly-Wissowa, viii. [1913], 1223), based on Pliny, N.H. zviii. 25 (57), 213. Pliny there cites as an example of the discrepancies of different writers on the dates of annual astronomical phenomena; 'occasum matutinum uergiliarum Heaiodus-num huius quoque nomine exstat astrologia-tradidit fieri, cum aequinoctium autumni conficeretur, Thales XXV. die ab aequinoctio, Anaximander XXXI. (7). Euctemon XLVIII. I may here put in a word of caution. It is improbable that all our authorities stated the actual interval between the equinox and the cosmical setting of the Pleiades. It is more likely that a compiler has in some cases calculated the interval from other correlations which his authority had asserted of one or both phenomena. Anyhow, Nilsson argues that of these discrepant statements that attributed to Hesiod is the most erroneous, from which he infers that it is the most ancient, holding that it is inconceivable that a late writer with trustworthy books before him would deliberately insert an erroneous astronomical statement in order to give his book an air of antiquity. Exactly the same argument had been used by Franz, op. cit. p. 356, and I do not know why Nilsson should get special credit for it. It is to be feared however, that if astronomical errors are to be made a criterion of antiquity, much literature that passes as modern will have to be relegated to a remote age; and anyone who cares to check the dates of celestial phenomena given in the calendars collected in Wachsmuth's edition of Lydus, De Oslentis, will find numerous instances of errors as great as that attributed to Hesiod. On the whole I consider that the antiquity of the Hesiodic астрогодіа is not proved. If a work dealing with the legends of the constellations belonged to the sixth century R.C., it neither set nor followed a fashion, whereas, if it belonged to the Alexandrine age it was well in the fashion. But, when we find Franz doubting whether the work did deal with the legends of the constellations, we can only reply that if his view is right we have practically no evidence left by which to date the book, nor does the

date matter to us, for it is only in a legend of the constellations that Scorpio is named.

If, however, the mention of Scorpio is not older than Cleostratus, a mention of Capricorn follows close on his heels. See Epimenides, frag-

ment 24 in Diels, Fragmente der Varsokratiker, ii. 193.

It would appear then that with the doubtful, to my mind very doubtful, exception of Scorpio, there is no trace of the mention of a zodiacal constellation in Greek literature before Cleostratus, though a knowledge of the zodiac spread rapidly after his time. The next question is whence he derived his knowledge of the zodiac, and the answer lies ready to hand-from Babylon. An excellent account of the Babylonian zodiac by Jeremias is to be found in the article 'Sterne' in Roscher, 68 Lieferung (1914), 1446-1470. From this it is clear that the twelve signs of the zodiac were already planned out and in common use long before the time of Cleostratus.4 We are now learning that the Ionian school of philosophy did not consist of pioneers of original investigation or speculation. On the contrary they in large measure assimilated the products of Babylonian science. Dr. Langdon in his paper, 'The Babylonian Conception of the Logos, Journal of the Royal Asiatic Society (1918), pp. 433-449, has shown very conclusively that the natural philosophy of Thales was of Babylonian origin and has given reasons, on which I do not venture to offer an opinion for thinking that Babylonian influences were at work on Hernelitus. It has long been recognized that Thales could have learned the art of predicting eclipses from none but Babylonian sources, and there can be no reasonable doubt that all through the sixth century are the thought of Babylonia along with its material civilization was streaming into Greece through Ionia. I do not know of any Babylonian influence on Greek thought before the reign of Nebuchadrezzar, and the influence would appear to have been seriously impaired by the outbreak of the Persian war, after which Greece, and more particularly European Greece, entered on the most original and most brilliant period of its history. The conquests of Alexander reopened the way to Babylonian influences, but the Greece that received them was far superior to Babylon in its philosophic and mathematical conceptions. It could still learn scientific facts, or astrological fancies from Babylon; it had nothing to learn in the way of abstract conceptions. Of sixth century Greece with its mind open to the barbarian later Greece was ashamed. Barely an admission is to be found in Greek sources of anything in science or philosophy learned from the Chaldaeans, the enomies in the golden age. What Thales learned abroad he was said to have learned from the Egyptians. Even Herodotas, who, as became an Asiatic Greek, still cherished in the fifth century B.C. an admiration for the civilization of the East, is accused by Plutarch of being \$\phi \lambda \beta \

[&]quot;I am assured by Dr Langdon that the evidence in the case of Cancer is unsuffifactory.

^{*} Herodotus a knowledges the sun-dial, the gnomou, and the twelve hours of the day,

[1893], p. 214). And even to-day the history of the Ionian school is worked up for us by some of our loading scholars, with barely a hint that either its philosophy or its astronomy was of eastern origin. Democritus is an exception. It was admitted that he travelled in Babylon and other eastern countries and learned much of Babylonian lore. I shall have more to say of this Babylonian influence when I come to deal with the lunar cycle.

I need hardly mention that the statement that Cleostratus was the first to name the Kids is consistent with the absence of their name from earlier writers. If he was the first to write a systematic poem on the constellations, there must have been many names which the later Greeks found in him and

in no earlier writer.

I take it then that Cleostratus imported the signs of the zodiac and perhaps some other constellations from Babylon. He probably combined these with names of stars and groups of stars already used in Greece, and found from his own observations the order of their risings and settings and how these stood in relation to the solstices—no small work if it had stood alone.

But there is also attributed to him the invention of the octasteris or the eight years' cycle of interculations; at least Censorinus gives it as one of two accounts. The alternative view that regarded Endoxus as the author of the first octaeteris is manifestly mistaken, and Censorinus was clearly right in preferring the view that he merely produced or obtained the credit for a

perfected octaeteris.

The view that Chestratus was the author of the first octaeteris is nowhere challenged in antiquity but it is almost universally rejected by modern wholars. In some measure Censorinus is responsible for this result, for he holds that many eight-yearly religious rites in Greece, and notably the Pythian games owe their period to the octaeteris. Now, of course, these eight-yearly festivals go back beyond Cleostratus. If, therefore Consorinus was right in explaining the eight-yearly festivals by the octaeteris, he was wrong in attributing the first octaeters to Cleostratus. But Censorimus's explanation of the eight-yearly testivals is seriously compromised by his explanation of the four-yearly festivals. These he regards as older than the eight-yearly, and he explains them by the four years' cycle, which equates an exact number of solar years with an exact number of days, our own leap-year. period in fact. Now, it is impossible to believe that such a cycle was known or could have had any calendarial significance if it had been known in early We are driven, therefore, to the conclusion that Censorinus's connexion of the festival periods with periods of intercalation is not a valid historical readition but the fimey of a later age. And in fact it is easier to explain the festival periods as mere powers of two. We have two-year festivals, and four-year festivals, and eight-year festivals.

But our scholars will not have it so. Greek legends have been ransacked for intervals of eight years or nine—for, of course, nine may mean eight reckoned inclusively, though in some passages cited it clearly means nothing of the sort. I shall not deal with these here. Those who care for such things will find them in plenty in the works of Orfried Muller, of Böckh, Sir James Frazer, and Mr. Cornford. Some discussion of them will be found in a posthumous work of the late Mr. W. H. Forbes on the Attic calendar and chronology of Thucydides, in which I was privileged to give him a little assistance, and which I am now editing. But I may venture on a reference to W. H. Roscher's two papers. Die Ennead, und Hebdomad. Fristen und Wochen, Abhandlungen der kön. sächs. Gesellschaft der Wissenschaften, Band 48, Philolog. Hist. Classe, xxi. (1903), and Sieben-u-Neunzahl im Kultus u. Mythus d. Griechen, ibid. Band 53, Philolog. Hist. Classe, xxiv. (1904), where it is shown what an important part all the early odd numbers 3, 5, 7, and 9 play in Greek legend and religion.

The attempt to find an octaeteris in the Olympic festival might seem more plausible to the unwary. We have a statement in Porphyry on Hind, x. 252, ed. Schrader, p. 148, that the Olympic games were celebrated at intervals of 50 and 49 years ἐναλλάξ. These alternate periods are supposed by the moderns to make up the 99 months of the octaeteria. Now Porphyry's object is not to explain nicely the rules for fixing the time of the Olympic games but to illustrate the use of round numbers by the poets in this case 50, while the unpoetic numeral 49 is ignored. It would be sufficient for his purpose if these two intervals normally alternated, as in fact they would in any well-regulated lumi-solar calendar. I have thought it worth while to examine the Olympic years of the nineteenth century. Assuming that in modern, as in ancient, times the Olympic year is that following the Julian leap-year and examining the date of Easter full moon in Olympic years, I find that from 1833 to 1909, the Easters of Olympic years fell alternately at intervals of 49 and 50 lunar months, yet it is known to everybody that our Easter full moons are regulated not by an 8 years cycle, but by one of 19 years.

A scholiast on Pindar, Ol. iii. 35, says that the race was held sometimes after an interval of forty-nine months, sometimes after one of fifty, δθεν καὶ ποτὲ μὲν τῷ ἀποτλωνίω μηνί, ποτὲ δὲ τῷ Παρθενίω ἐπιτελείται. Now δθεν is of course absurd. Even if the games had been always in the same calendar month, we should have expected this variation between forty-nine and fifty month periods, but the statement that the games were sometimes in Apollonius, sometimes in Parthenius, has been supposed to lend colour to the theory that they were governed by an octaeteris.

Another scholiast in two very corrupt scholia gives us the clue to this variation of calendar date, though I do not find that the explanation has ever been grasped. The passages are best studied in Drachmann's edition of the Pindar scholia, i. (1903), p. 114, and in Weniger's article in Klio, v. (1905), pp. 1 ff. I reproduce the passages, but do not vouch for the text—

ήδη γάρ αὐτῷ: περὶ τοῦ χρόνου καθ' δυ ἄγεται τὰ 'Ολύμπια καθ' ἐκάστην 'Ολυμπιαδα, καὶ Κώς μαρχος > ἀ τὰ περὶ κλείων [potins 'Ηλείων] συγκατάξας φησὶν οῦτως: πρώτου μέν οὖν παυτὸς περίοδου συνέθηκευ ἐν τῆ ἡμέρα ἄρχειν νουμηνίαν μηνὸς ὁς Θωσυθιὰς ἐν 'Ηλιδι ὁνομάζεται, περὶ δυ τροπαὶ ἡλίου γίνουται χειμεριναί. καὶ πὰ 'Ολύμπια ἄγεται η' μηνὶ ἔνὸς δὲ ΤΗΣ — VOL ΧΧΧΙΧ.

όντος διαφεροντων τη ώρα, τα μέν άρχημέν της όπωρας, τα δε ύπ αὐτον τον Αρκτούρου. ότι δε και άγεται ο άγων, και αὐτος ό Πίνδαρος μαρτυρεί.

διχόμηνις: διχόμηνις περί την ις πανσελήσου ούσης άγεται τὰ 'Ολύμπιο, τουτέστι ούμηνία [διχομηνία |] Παρθενίου ή 'Απολλωνίων μηνός, παρ' Αλγυπτίου Θώθ ή Μεσωρίων.

From the earlier of these passages I infer that the Elean month Thosythias fell about the time of the winter solstice, and that the Olympic festival was celebrated in the eighth month after Thosythias. Which month this would be would depend on whether an intercalary month had been inserted since Thosythias. This explanation assumes that the proper place for an Elean intercalary month was somewhere in the seven months following Thosythias, and it suggests that a vague coincidence of Thosythias with the winter solstice may have played the same part in the popular conception of the Elean calendar that the vague coincidence of Hecatombacon with the summer solstice did in the popular conception of the Attic calendar. The reason for keeping the Olympic festival at a fixed interval from Thosythias irrespective of intercalations was, very possibly, that some of the feasts falling before the interculation were of the nature of a preparation for the great festival, which had to follow them at a fixed interval. Moreover, if the Eleans intercalated at short notice, they may have thought it undesirable that the intercalition should affect the date of a pan-Helleme festival like the Olympic games. It would appear then that the fact that the games were sometimes in Apollonius, sometimes in Parthenius, had nothing to do with the octaeteris. It merely meant that there was sometimes an intercalation between Thesythias and the games and sometimes not. And of course there is nothing to prave that the rule given by the scholiast is ancient Comarchus, if it is Comarchus, may have lived in the fifth fourth, or third century s.c. We can only date him from the fact that a scholium on Plato, Placedo 89 names him along with Pherecycles of the fifth century and Istrus of the fourth century, R.C.

I have already alloded to the eighth chapter of Geminus which describes the gradual growth and increasing perfection of lunar cycles, aiming at comprising an exact number of natural days, months, and years. I am convinced that this chapter has nothing to do with the calendars actually used in Greek cities, but only with the cycles propounded by astronomers, which may have influenced the cities, but would appear never to have been adopted by them. The early cycles are the work of oi appears, which according to Geminus's usage, should mean the early astronomers. If anyone doubts, let him look at the attempts made to explain the Attic intercalations of the fifth and fourth centuries no, by either the eight years or the nineteen years cycle. Every investigator has to find reasons why his scheme of intercala-

According to Drawlmann this is the MS. reading, which he takes to represent apparers. We orger on the authority of Tycho Montusen gives applicate.

This miliper will be more fully treated in Mr. Furber's book on the Attir Calendar and Chronology of Thucydides.

tion does not fit the hard facts of the historical evidence. The simplest explanation is that the Athenians recognised no law of intercalation. The practical man treated the man of science with a contempt only one degree less profound than the contempt with which the man of science treated the rest of manking.

What writers on the Greek calendar have never grasped is that in the ancient world cycles of intercalation were all but unknown to civil calendars whether Greek or barbarian. Wherever we have evidence, it would appear that the number of months in the year was determined annually not by rule of thumb, but by some living authority, just as the number of weeks in each cacation is determined annually in the University of Oxford by Heldomadal Council.

If the Greek cities had desired, like modern Christians or modern Jews, to maintain a common calendar, they would doubtless have found it most convenient to regulate their intercalation by calendar rule, but, while each city regulated its own calendar, it was found most convenient to determine the question of intercalation year by year, just as Hebdomadal Council

annually arranges the academic year.

Let him who has further doubts on this subject turn to Father Kugler's Sternkunde und Sterndienst in Babel, Ergünzungen zum ersten und zweiten Buch (1913), p. 131, where the author shows that down to the year 528 R.C. interculation at Babylon was irregular. The figure 528 appears to require revision, for the list of Babylonian intercalary years given in Ginzel, Hamilbuch der mathematischen und technischen Chronologie, i. (1906), p. 133, supplemented by it. (1917), p. 499, is consistent with the use of an octactoris from 533 to 503 a.c. For the earlier part of the sixth century a.c. we can by means of numerous contract-tablets, identify most of the intercalary years, and there can be no doubt that the intercalation was irregular. On the slowness with which eveles of intercalation came into use in antiquity, see Ginzel, op. cit. iii. (1914), pp. 366, 367. Intercalations were then unsystematic in Athens of the fifth and fourth centuries B.C. and in Babylon before 533 and after 503 ax. The Jewish interculation was still irregular, and was determined annually at the time represented by the Talinud. According to that work, regard might be had to the state of the roads, the bridges, and the passover-ovens, to the possibilities of pilgrims who had already started arriving in time for the passover, to the growth of the goats, lambs, and pigeons, of the corn and of the fruit, and to the number of days. that had to clapse before the equinox. Intercalation according to some rabbis was to be avoided in a year of famone and in a sabbatical year, and a court might be influenced by the fact that the next year would be or the last had been a sabhatical year. In fact, almost anything might affect the decision except the place of the year in a cycle. (Babl. Talmud, Synhedrin, 10 10 13 ed. Lazarus Goldschmidt, vii. [1902] pp. 32-43.)

One may go further and say that from any cycle of intercalations it is possible to deduce mean lengths of the calendar month and calendar year, which in any calendar are intended to agree with the mean lengths of the there should be some exact value assigned to these periods. Hesiod, of course, suggests no such knowledge. He gives a few intervals between annual astronomical phenomena, so that you may know how the year is progressing, but he expects his husbandman to know the seasons, not by numbering the days, but by observing the sky. The Greek doxographers know of no astronomer before Thales. We have preserved to us the names of many literary men of older date, but of no astronomer, and the inference is that Greece had no astronomer before Thales, and no exact knowledge

of the lengths of months and years.

This is important, because all our evidence goes to show that the very idez of a cycle is a product of exact astronomy, and we have no knowledge of the use of a lumar cycle anywhere in the world before the time of Thales. Probably the oldest lunar cycle is that of 223 lunar months or 6,5851 days. about 18 years and 11 days, which Suidas calls the σάρος, and Ptolemy (iv. 2, ed. Heiberg L [1898], p. 270) the weptobixos xpovos, or the same period multiplied by 3, i.e. 669 lunar months or 19,756 days, about 54 years and 33 days, which Geminus (chapter xviii.) and Ptolemy call the Percyuis. Prolemy regards these as the discovery of οι έτι παλαιότεροι as distinguished from οι παλαιοι μαθηματικοί. He describes Hipparchus as having detected a small error in these periods, but does not suggest how far beyond the time of Hipparchus the knowledge of them went. These cycles were not used for intercalation, though it would appear from one Babylonian tablet of perhaps the fifth century a.c. that it was known at that time that the sun, moon, and fixed stars returned approximately to the same relative positions in 27 years. See Kugler, ubi supra. The cycles of 18 and 54 years were cycles of eclipses. Now, while no exact knowledge of astronomy and therefore no astronomical cycle was needed to determine when an intercalation was due, nobody could predict an eclipse without some exact astronomical science. In Sternkunde und Sterndienst in Babel, ii (1909), pp. 58-77, Kugler argues forcibly that the Assyrian predictions of eclipses in the seventh century s.c. were not made by cycle, but were auticipations deduced from observations made a few days before the expected time of conjunction or opposition. But a prediction at a longer interval involves the use of a cycle. and, as Herodotas (i. 74) informs us that Thales predicted a change of day into night (i.e. a total eclipse of the sun) for a particular decayros, which I suppose means 'year,' he must have used a cycle. He doubtless learned the cycle from the Babylonians though, as it happens, we have not yet run across an example of its use in Babylon before his time.

The first requisite for an exact determination of an estronomical period is a continuous measure of time. If you have no fixed rule to determine whether a particular month is to contain twenty-nine or thirty days, or a particular year twelve or thirteen months, it is of no use to know the year, month, day, and hour of an old observation, unless someone has been at the trouble to compile a list showing the length that has actually been assigned to each month and each year from the time of the old observation

to the time of the new observation with which you wish to compare it. And, it the old observer has like most Babylonian observers down to the seventh century a.c. recorded only the month and day of the month with the vaguest indication of the time of day, leaving his successors ignorant of the year and the hour even a canon of years, months and days, will be of little use. There was of course no such canon in Greece until the the selfregulating calendar of Meton was invented for the purpose of providing a continuous record of time, and it is interesting to observe that Ptolemy, who generally derives his observations from Hipparchus, cites no Greek observations before the time of Meton. Of what use would they have been without such a canon to correlate them with later observations ! On the other hand Ptolemy cites an abundance of Babylonian observations going back nearly to the reign of Nabonassar, in which dates are expressed in Egyptian vague years, reckoned from Nabonassar's first year (747 stc.). There is only one possible explanation of this fact, but it would appear that so far the explanation has been missed. Someone must have compiled a canon showing the number of days that had been included in each Babylonian month and the months included in each Babylonian year from the first year of Nabonassar onwards. Probably it was a great canon containing not only the lengths of each month, but a dated list of observations made during it. The measure of accuracy in the eighth century observations cited by Ptolemy is, as Kugler remarks, about equal to that of the better defined observations preserved on cuneiform tablets of that age. Their chief value for subsequent astronomers lay in the fact that unlike most of the Babylonian observations of that age they were carefully dated. Now if such a canonof observations was brought down to a date when it could be compared with the Egyptian vague year, it was a simple matter to convert all the dates into the Egyptian calendar, and Hipparchus naturally preferred to express the dates in the Egyptian calendar, in which all months were thirty days long and all years 365 days long, a calendar in which calculation was easy and to which in all probability his own tables were accommodated. It will be observed that the significance of the era of Nabonassar lies simply in the fact that this canon began with the first year of his reign.

With such a canon before them it was no impossible task for the Babylonian astronomers first to map out the intervals between different eclipses and next to discover that they recurred in cycles such as have been mentioned above. The eclipse of Thales (585 nc.) was 162 years later than the accession of Nabonassar, so that by his time the Babylonian astronomers had a long series of eclipse observations at known intervals. An eclipse, unlike a new moon, could be dated to an hour by direct observation, and it is reasonable to suppose that the indications of time were steadily made

more exact as the idea of seeking or testing a cycle took shape.

A difficulty has been made in the interpretation of the prediction attributed to Thales on the ground that the 'saros' gives from two to five solar eclipses for each year and provides no means of determining which of these will be total or even visible at a particular place, while, when the 'sarcs' does give the date of an eclipse, it gives not only the year, but the month, day, and hour? From this it would follow that a prediction of a solar eclipse for a particular year by means of the 'sarcs' is rather an absurdity, and it has been suggested by Tannery (Pour l'histoire de la science hellène, p. 60) that Thales picked up a number of predictions on his travels from an astrologer, and, after verifying some of them, ventured to assert one of the predictions on his own responsibility, and by a stroke of tack this prediction was fulfilled in the shape of a total eclipse of the sun visible in Asia Minor. Now it is true that a modern astronomer uses eclipse cycles merely for the purpose of discovering the dates of eclipses and, in the case of solar eclipses, of getting some vague indication of their magnitude on the earth generally. He discovers by more elaborate means whether a solar eclipse was visible at a particular place, and, if so, what its magnitude was.

But this does not mean that the 'saros' or ¿¿chepuis cannot be used to make predictions for a particular place. The apposite is the case. Each έξελεγμός brings an eclipse back to much the same hour of the day and to much the same track. A study of all the solar eclipses visible at Babylon from 700 B.C. to 556 B.C. shows that where the sun was above the horizon at the recurrence of the eclipse; the local magnitude was generally much the omno as it had been fifty-four years previously. A total eclipse recurs as a total eclipse, but the belt of totality generally shifts steadily northwards or southwards. If the magnitudes of the ten largest eclipses visible at Babylan at their greatest phase between 700 and 610 a.c. inclusive are taken from Ginzel's Specialler Kunon der Frusternisse (1899), it will be found that seven of the ten recurred after fifty-four years with the sun above the horizon. Measuring an eelipse by the proportion of the sun's diameter obscured and reckoning the diameter according to astronomical usage in twelfth parts or digits we shall find that four of these seven recurred at Babylon with a magnitude changed by less than one digit, and that two of the three others recurred with magnitudes changed by less than two digits. In the seventh instance the magnitude was changed by 48 digita, but in no case was the eclipse invisible at Babylon when the sun was above the horizon at the time of the recurrence of the edipse. And, as the cycle tells us whether the sun will be above the horizon or not, it is really a very sate guide for the prediction of solar eclipses. It is true that the eclipse of 585 B.C. must have been foretold by means of that of 603 B.C. not that of 639 B.C. that is by the 'saros, not by the exekrypos, but the fact that the time of the eclipse varies by night hours from one 'saros' to the next has the result that the sun is usually below the horizon at a recurrence after a "sures" period so that predictions by the 'suros' cycle would not be available so often as predictions by the ¿ξελιγμός.

Martin in Rente Accheologique, neuronerie, in (1964), pp. 170-190, makes much althese difficulties. Newcomb, Researches on the Motion of the Moon, Part I (1878), pp.

^{28-30,} rejected the prediction for the reason gives in the text, but in Part II of the same work (1912), p. 231, he stated There can be little doubt that Thules predicted this sulipse.

Solar eclipses visible at a particular place do not occur every year. Once in four years is nearer the average. There is, therefore, nothing absurd in Thales having predicted a solar eclipse for a particular year by means of the 'saros.' He would appear from Herodotus's statement to have also predicted its totality. That of course he should have been able to do, so long as he did not venture to say where it was to be total. If, as the passage would seem to imply, he predicted the year, but not the month or day, the reason may have been that he did not know the precise date of the eclipse of 603 B.C., or that, if he knew it, he did not know how many intercalary months had been inserted since that date. He probably had not access to

the Babylonian canon of years, months, and days. If we acknowledge, then, that Thales was already in possession of a cycle of eclipses, the step to a cycle of intercalations is quite easy. A cycle of intercalations, as the Greeks understood it, has to satisfy three requirements; it must contain at once an exact number of days, of lunar months, and of solar years. The cycle of eclipses provided at once the number of days in a lunar month. The 'sares' contained 223 lunar months, amounting to 65851 days. This gives 29814 days for each month, a number of days which exceeds the traditional lumation of 294 days by Ja day almost exactly. This suggests a period containing some multiple of thirty-three months in order to obtain at once a whole number of days and a whole number of months. A period of ninety-nine months fulfils this requirement and is also very slightly in excess of eight solar years. Eight solar years were. according to the best science of the sixth century, s.c., 2,922 days long, while nmety-nine months of the length just determined amounted to 2,9231 days. So an approximate cycle of eight years might be made to include 2922 days or an approximate cycle of sixteen years to include 5.847 days. Here we have what Geminus regards as the first and second forms of the octaeteris. But as has been seen, intercalation in Babylon had always been independent of cycles, and the octasteris was certainly the result not of any civil necessity, but of a scientific appetite for a systematic rule. It does not appear that the Babylonians ever regarded it as part of their calendar system. We have seen that it was actually used from 533 to 503 a.c., and then set aside, but that may have been due to the influence of some influential astronomer, who favoured this cycle, and who ceased to advise or at all events to get his advice carried into effect after 503 R.C.

But those thirty years were just the age of Cleostratus. Then and then only could the octaeteris have been imported from Babylon to Greece, and, as in the case of the zodiac, it was Cleostratus who transplanted the idea into Greek science. His solstice observations may have had some relation to this cycle for harmonizing the periods of sun and moon, though they would be equally useful for the purpose of arranging in their proper order the annual phenomena which probably constituted the greater part of his poem.

It is curious that he should have left so slight a mane and yet have exercised so great an influence. The name of Thales looms large through the tradition of Greek philosophy both among ancient and among modern writers.

His famous prediction seemed a marvellous feat of skill, but he did not transmit his science to succeeding generations, and the art of predicting eclipses had to be learned again from Babylon in the Macedonian period.

Cleostratus, like many of Earth's wisest, seems to have held no opinions and left no material for the doxographers. His poem, like many another astronomical poem, was rendered antiquated by Aratus. The signs of the zodiac survived, but others used the names and figures with greater skill. He started a fashion for making and perfecting luni-solar cycles, which provided plentiful exercise for the ingenuity of astronomers from his age down to Hipparchus, but the glory went not to him but to the authors of the cycles that were more widely current in a later age, Meton and Eudoxus. Had he not found a vates sacer in Parmeniscus, we might have known nothing of his two great importations of Babylonian science, for which we have to thank him the more because they were made in that last generation before Greece lost the power and the will to absorb the learning of the East. Breithaupt (op. cit p. 33) at least contends with great plausibility that the references to Cleostratus in Hyginus, Pliny, and Censorinus are all derived ultimately from Parmeniscus, as the reference in the Euripides scholum professedly is. On so small a thread has hung the fame, meagre at best, of one whose work has lived when its author has been forgotten.

J. K. FOTHERINGRAM.

SOME BALKAN AND DANUBIAN CONNEXIONS OF TROY.

PREHISTORIC research shows us that in the troubled section of Europe known as the Near East there existed as early as the neolithic period several culture groups which may be classified under four heads as follows:—

- (1) The Aegean, Minoan-Mycenaean group:
- (2) The Thessalinn
- (3) The Upper Balkan and Danubian.
- (4) The South Russian and allied groups.

The first of these is so familiar that we meed only emphasize its continuity from the neolithic period through the Bronze Age and the fact that, although eventually it was widely diffused through the Mediterranean from Spain to Cyprus and the coast of Palestine, in the Aegean area itself the northern limit on the west coast was Thessaly, which it reached in the L. M. period, and on the opposite shore the single site toward the north is Troy, where L. M. is contemporary with the VIth city. The sporadic examples on the coast from Thessaly to Troy are very late and apparently had little influence.

The excavations by Messrs. Wace and Thompson in prehistoric Thessaly, which included considerably more than one hundred sites, have led them to differentiate a large number of styles of pottery, including red monochrome, red or black incised, or else painted either light on dark or dark on light in many varieties. The designs are predominantly rectilinear and more closely akin to the northern groups than to the Minoan. These styles extend from the Neolithic, through Chalcolithic to the Bronze Age, with gradual changes and no violent break until the close of L. M. H. This tallies with what had already been known of Minoan influence on the Thessalian coast. The terracetta figurines are also quite different from the island or Aegean type and belong to the short and stumpy styles of the mainland. The excavators believe that except for the Creto-Mycenaean vases (L. M. H. and HI.) there seems to be hardly any direct connexion between Thessaly and the south-eastern regions of the mainland. neither did the Cycladic (Island) styles have much influence. Even when at the close of the Minoan period

Wane und Thompson, Prehistoric Thes-

² Rod. p. 223.

ntly, pp. 13-23. 1 Hid. p. 226.

¹ Hid. p. 232

that civilization came into contact with Thessaly, it did not replace the local wares but continued side by side with them and what influence there was resulted in a somewhat hybrid style.

It is therefore, not to the south but to the north that the excavators

have looked for connexions with Thessaly.

On the basis of a few sherds, one cup and one bowl, Dr. Tsountas is inclined to note a relationship between Thessaly and Troy, but Messes. Wacs and Thompson do not agree with this view and regard the Trojan vases as unlike the Thessalian in most respects.

The occurrence of Minyan ware at Troy VI. and VII. and in Thessaly need not prove any direct communication although it may be inferred. The

origin of Minyan ware is still uncertain."

The Thessalian pottery seems to be affiliated with the north Balkuns

through a ware which may possibly be of Macedonian origin.

Adequate information is not yet to hand about Macedonia, but so far the connexions of Thessaly lie northward. The figurines have their closest analogies in Thrace and the decorative motives of the Dhimini ware, a combination of spiral and geometric, unite Thessaly with Thrace, Roumania

Galicia, Bessnrabia, and South Russin*

Thessaly continued in the neolithic or sub-neolithic period when the Aegean and the Serbian-Troy areas had reached the Bronze Age. Troy, which was situated on very important trade routes (as we shall see later), was connected with the Anatolian district on the east, and on the west through Serbia with other parts of Europe, but Thessaly lay too far south for this line. She was also off the Mycenaean trade routes, thus forming an isolated sort of backwater between these two great metal-using areas, and serving as a buffer State to keep central and southern Greece protected against the Danubian peoples. Later on, when the Mycenaean people removed the barrier (by trade or conquest), to or when the restlessness and pressure from the rear sent more and more invaders into the Greek pennisula, Thessaly was in their path and many of the northerners followed that route. In fact, in the days of the Achaeans, Thessaly was one of the

evidence both in the Cyclades and on the mainland of Greece.

Mr. V. G. Childe's study (J. H.S. 1915, pp. 196-297) of the stratification of siles in Phocis which show Minyan ware in all stages of development leads him to believe the vasce were not imported from Troy. Neither does be believe in a Trojan conquest, but he thinks that Minyan ware, if made in Troy, could have been passed along via the northern Oyelades where some finds in Syru and Naxos similar to Troy H.-V. show that contact had been established.

[&]quot; Thirt p. 1927.

[&]quot; Dod ch giv.

Mr. R. J. Formstyles (J.H.S. 1914, pp. 120+100) regards it as a Trojan fabris, and auggests that Greece was once a Trojan previous and that the Trojan War reserve a struggle for the procession of both sides of the Aegean. He believes that the power which kept the Minoans from the coast of Avia Minor was a people whose most bernidable site was Troy.

This brilliant and interesting hypothesis can hardly be maintained aime the Minyan ware has not been proven Trojan, there are no remains like the Trojan anywhere along the coast of Asia Minor, and the theory runs counter to a great deal of archaeological

Waco and Thompson, Prehistoric Three willy, p. 232.

^{*} Hed. p 283

¹⁸ Hid. p. 249.

great centres of the Hellenes, and it is quite possible that the shaggy Pheres and barbarons substratum which Homer suggests afford a real hint of internal wars. The contrast between north and south Greece which we find in Homer corresponds with the facts so far as we know them. An interesting by-product of the discussion of Thessalian civilization is a suggestion about the Pelasgians. There is no intention of entering on the Pelasgian controversy at this point particularly in the face of the most reasonable explanation made by Dr. Leaf, but if Pelasgian implies ancient, out-of-date and uncivilized, it well describes the Thessalian people, the barbarons Pheres, Magnetes and Centaurs. The crude remains, such as the ithyphallic and steatopygous figurines, point in this direction. It seems at any rate a great mistake to make Pelasgian equal Mycemaean as Professor Ridgeway does, for Wace and Thompson show that the most Pelasgian spots are exactly those which are the least Mycemaeau.

Father Browns is mentions the fact that there is a gap in Homer's geography which corresponds to Macedonia and that the poet knows the Trojan-Thracian group and the Greek, but not that which comes between

There is a corresponding blank spot in Homer's Asia Minor (all along the coast) explained as the probable possessions of the Hittites, whose power had been flourishing since Minoan days and had prevented the Cretan mariners from settling in numbers on that litteral.

One need not suppose an equally powerful people on the Greak side of the Aegean, and Father Browne suggests that this north-western gap may indicate a thrust of barbarians whom the bards either did not know or preferred not to recognize.

I think if there is a blank spot in Homer's record it lies farther south, as Macedonia is accounted for by the Paconian allies who formerly occupied more territory than they did in historical times. And while it is still premature to say much about Macedonia, the excavations tend to bridge over the gap between Thrace and Thessaly. Thessaly, rather than Macedonia, appears to have been the backward barbacous area.

It is not, however, with the Aegean or Thessalian areas that this paper proposes to deal, but with the peoples who inhabited the Danube Valley and kindred regions.

In the interesting eleventh chapter of The Discoveries in Crete, Professor Burrows gives an admirable summary of the finds in certain districts of South Russia and its vicinity, an area which he compares to a triangle the base of which extends from Kiev to northern Bohamia, the western side

¹¹ Leaf, Trop, A Study in Homeric Geography, ch. vii.

Wace and Thompson, Probistoric The-

safy, ch. xvii.
Browne, Handbook of Homeric Study².

pp. 175, 282.
is Hogarth, Innia and The East, pp. 47, 101, 102.

M According to Wass and Thompson (op-

cat App. I. p. 258) the The-salian pottery connected with Moldavia belongs to Th. II., that connected with Surbin to Th. III., it is therefore possible that there was once connexion between the Thossalian and Moldavian areas and that later the Serbian style split this grea and extended over to Troy. This would account for the degeneration in the later Thessalian periods and also at Countent.

through Austria to Trieste and Bosnia, the eastern through Podolia and Bessarabia into Roumania; an east-central line comes through Bukovina and Transvivania, a west-central line through Hungary into Serbia. The eastern line may be extended through Eastern Roumelia, Troy and Yortan in Mysia. 16

Not all the culture in this area is of exactly the same type, and it may be classified as indicated on the map (Fig. 1), which shows the close relation-



Fig. 1.—Distribution of Painted and Income Warren in

- Painted pottery of Kiev Tripolic type.
- □ Painted pottery of similar styles.
 △ Incised pottery.
- Both painted and incised wares.

¹⁰ Burrows, The Discoveries in Crete, ch. xt. pp. 184, 185; Minns, Scythians and Greeks,

pp. 132-142 | Wass and Thompson, Cl. Rev.

^{1908,} pp. 233-238.

ine Salonies should be murked 2

ship between Troy and the Balkan district in what Professor Myres has described as the Great Diagonal Line.

The first group, marked on the map by squares, shows the area of the remarkable polychrome painted pottery with spiral and naturalistic designs which belongs to the neolithic period, side by side with the incised fabrics which ordinarily characterize that age. This group may be further subdivided into:

(1) The Kiev-Tripolje culture, and

(2) The sites with pottery of similar styles.

The first is marked by solid squares, the others by hollow squares: those which lie furthest west have fewer points in common with Kiev than have the Galician sites.

The areas about Kiev, often described as the Tripolje culture (from Tripolie which is forty miles below Kiev on the Dniepr) are arranged in circular groups on high ground which slopes to the water on the south side. These areas were dug out to a depth of from two to four feet and are rectangular in shape, varying from five to ten yards in length and from six to eight in breadth, or occasionally as large as twenty by twelve. The walls were of wattle and clay, sometimes whitewashed and painted red or adorned with a cornice. The floor was apparently of hardened earth and the many lumps of clay which were strewn over it may have been parts of the roof. Amongst these clay fragments were found pottery of distinctive types to be described later, axes of horn or flint, sling stones, grinders, shells, bones of animals, tortoise shells, and small clay figures 'that distinctly recall those from Hissarlik 19

Characteristic shapes of pottery are the opera-glass, and conical pots with a foot or with angular outline. Spirals or wavy patterns in ribbon-like effects are made by four or five parallel grooves or else painted in reddish or brownish colour on a yellow or red ground.18 Leaf designs are painted in brown on white or cream, and sometimes a light-coloured design is outlined in brown or black.19 The rare human figures recall the Dipylon style but are less attenuated.20 The figurines show progress from cruciform or slab-like idols to well rounded forms. Many have bird-like faces n Although most of the axes are of stone, copper is beginning to be used.

It seems improbable that these areas can have served as dwellings as there are no remains of food, discarded pottery, or a permanent hearth. Chvorka believed them to be tombs, although no bones have yet been found. Later discoveries, however, have furnished evidence of both cremation and inhumation."

Podolia and Petreny belong to this group. One vase from Podolia represents goats, a deer and a dog on the upper zone. Others have backgrounds of black, light brown, yellow or grey with spirals and curves

¹¹ Minns, on, cit. pp. 133-140; Figs. 28, 31

⁼ Ibid. Fig. 32.

Had. pp. 133-139; Pigs 29, 30, 32
 Had. Pig. 30

[#] Ibul. Fig. 33.

⁼ Bid. p. 110.

in white, red, orange or brown. The same colours and patterns occur at Petreny where in some cases the designs have been painted in black or violet brown on the natural red or yellow surface of the clay, in other instances there is a slip of red or brown (polished) or yellow or white (dull). Though the animals and human figures are not so good as at Tripolje or Podolia, the general affect must have been rich and varied. Knobs and small handles are found, but there is little incised work.

This pottery may have been evolved in Russia or have been derived from elsewhere. Some scholars advocate an Aegean origin, but as far as one

can judge from illustrations the resemblances are slight.

It seems rather strange that so much effort has been wasted in endeavouring to derive either the Aegean styles from the Russian-Danubian Both sides of the case have been well summarized by or vice versa. Professor Burrows," and the third view, namely that of a parallel and independent development, is also presented. This is the view preferred by Dr Hoernes " and Messrs. Wace and Thompson " and appears the most reasonable explanation. Besides the fact that there is almost nothing common to the two except painted pottery and the spiral there is the fact that between them there intervenes a fairly broad zone which includes Thessaly and the upper Balkans, each with rather distinctive styles of their own, and had this painted spiral motive passed through the Balkan peninsula either in a northward or southward direction, it surely would have left some traces. There remains the alternative of a sen-route, but insuperable objections to this are that few traces of Aegean civilization have been found on the coast anywhere between Voio and Troy, and no remains of Minean pottery in South Russia or Thrace, and that it would have had to pass right through the Serbian-Trojan zone.

In any case, we find it superior in style to most other places in the neolithic period. As in Scandinavia the isolated position allowed faller development of the neolithic technique in stone objects, so here the lateness of the knowledge of metal afforded the neolithic artists opportunity to develop the pottery which was their forte. Dates are hardly safe, or perhaps even desirable, but Nierderie's suggestion in that it belongs to about 2000 n.c. seems a reasonable one. Of course the Aegean area had been using metal long before this, but there is no reason why even at the height of M. M. this district could not still have been in the stone age. While the origin is still obscure the affiliation is close with Transylvania and Galicia, where the sites at Bileze Ziote in the Kiev style. These are described by Hoernes as

⁼ Hid. p. 140, Fig. 34

⁹⁴ feid, pp. 140, 141,

²² Harrows, Discorrers in Code, ch. st.

^{**} Hoemes, N.K.O. pp. 126-128 (m Burrows, p. 194).

^{# (2.} Res. 1968, p. 238; Prehistoric Thes.

wally, p. 234 and Appendix I, pp. 257, 258

^{**} Star. Aut. 1. p. 480, quoted in Minus, p. 142.

Hourses, Urgrachichte der hildenden Kund in Europa, p. 291. Pig. 2: p. 315.

²⁰cd p. 213.

'Ukrainian' and include the characteristic opera-glass, the variations of spiral, and use the same rich colours. Another Galician site, Koszylowce, has grey incised pottery and painted ware. Its neolithic period is said to furnish many resemblances to the Thessalian and to afford a close parallel to Butnur.

In the Carpathian district or Transylvania, where both the incised and painted styles occur. Tordos and Kronstadt are two of the most fruitful sites. At Tordes the pottery designs are rectifinear and spiral, red or violet-red on a yellow-ground. In terracotta there are small short-legged animals and female idols with arms horizontally outstretched or placed on the body.20 Kronstadt " furnishes many examples of pottery in which the straight and curved bands are drawn with great neatness and exactness. Although whiteon dark occurs, the converse technique is much more general. As at Tordos there are many figures of animals and female idols, but the Kronstadt variety is very steatopygous and fat in the legs. The breasts are small, the navel and knee caps modelled in relief and the head often pierced through with holes. In Roomania Cucutemi (near Jassy) affords some good examples of polychrome styles "4. The earlier neolithic group includes a large number of the fruit-stand type whose shape and certain features of whose decoration recall the warrs of Thessaly II., but are by no means identical and may easily he distinguished since those from Cucuteni are dall and dusty while those from Thessaly are polished. The later vases which belong to the Chalcolithic or early Bronze Age recall those from Petreny in the use of spirals, and in the placing of the decoration on the upper part of the pots which slope rapidly to a small base.

The terracotta figures from Cucateni are very striking; the upper part of the body seen in profile is flat and slablike, the head insignificant, and the steatopygy very marked; seen from the front or back they are broad shouldered and broad across the hips. They are covered with incised decorations, spiral and meander matives, curving lines, semi-circles and a peculiar arrangement giving the effect of drapery drawn very tight about the lower part of the

body

These sites then furnish a group which, though not homogeneous, is closely affiliated. When we cross the Danube into Bulgaria we find connexions with Serbia and Bosnia and also with the group just described. There are incised wares with a combination of spiral and geometric designs, parallel lines in ribbon style, impressed chaquer patterns and, less commonly, painted ware akin to the Moldavian and some use of graphite technique; of these are flat bone idols with incised decoration.

Hadarank, Les Monuments acchéologiques de la Galicie (review and summary in J. H.S. 1915, p. 153).

⁼ Harries, op. vit. p. 303.

^{= 155}d. p. 307, Figs. 4-8

^{*} Wace and Thompson, Perhistoric Thansaly, p. 257.

Horrms, Veye-hichte, p. 200, Figs. 1

Seure and Dugrand, B.C.H. 1906, pp. 359-432, with 72 illustrations.

²¹ Wace and Thouquon, Prohistoric Thesat/9, p. 258.

^{*} B. C. H. 1996, p. 415, Fig. 57.

idols, is figurines reminiscent of the Cucuteni in and Russian in styles as well as seated figures covered with incised designs whose relationships cannot yet be determined. One rather interesting fragment of a terracotta shows the upper part of a bird, presumably an owl, whose eyes are ellipses with a straight line through the centre, the mouth a cross, the nose beaked, the plumage incised. It is suggested that it may be meant for a human being clad in an animal's skin, as we learn from Xenophon and Herodotus that the Thracians dressed in this fashion, is

Bulgaria then seems to have some relation to the Moldavian district north of the Danube and some with Serbia. Messrs. Wace and Thompson point out that in the Sofia museum are many weapons of the usual central European shapes. The bored celts which may imitate metal axes are characteristic of Troy as well and indicate a connexion between Troy and the central Danubevalley, but as Troy affords no examples of Moldavian painted pottery the trade route probably branched off and followed the route taken later by the Roman road from Nish to the Hellespont. In Bulgaria the principal finds have been on the Danube at Rasgrad and near Silistria; in the Shumla district, at Jamboli and Tell Ratcheff near Jamboli; and at various sites near Philippopolis.44 In the Shumla district the painted Moldavian pottery is more frequent than near Philippopolis where incised wares are particularly The wares of Ratcheff and Metchkur are, however, said by Messrs Seure and Degrand to be almost identical, although the examples at the latter are a little more carefully done, " These authors particularly note the resemblances to the Bosnian and Serbian fabrics.

The so-called Tomb of Protesilaus, two and and a half miles north of Sedd ul Bahr across the Hellespont from Troy, and the adjacent gardens were strewn with thick instrous pattery characteristic of Troy I.; in the tomb were fabrics of Troy I. and H. styles, stone axes, hammers, querns and balls, a small bronze knife and baked bricks like those from the second and third Trojan cities. This was the only tumulus in which Trojan pottery was found by Schliemann, but later discoveries in Thrace and Bulgaria have farmished more examples. These help to confirm the statements of Herodottis and Strabo about the connexions between the Phrygians and Trojans and the migrations from southern Europe to Asia. Phrygians and Mysians had both taken the Bosporus route and had left at home in their native Thrace certain of their kinsmen known later as Bryges and Mossians. Quite probably the expansion of these tribes into North-western Asia Minor was part of the same movement which drove their kinsmen the Achaeans southward into the Greek

Hoerms, op. cit. p. 317, Figs. 1-3.

Find, p. 317, Fig. 4 (from Vidbol in the Vidia district).

^{**} B.C.H. 1906, p. 300, Fig. 25 ; p. 301, Fig. 25 ; p. 414, Fig. 56.

[&]quot;Hoernes, p. 319 (from our Philippepolis); Wace and Thompson, Prehistoric Thinally, p. 238; Wane and Thompson, G. Ree, p. 235, Fig. 4.

⁶ H.C.H. 1906, p. 374, Fig. 9, and note 2 ⁸ Jérôme, Rev. Avez. 1901, pp. 323-349 (Jambelt); Sours and Degrand, B.O.H. 1906, pp. 369-432 (Tall Ratcheff, Tell Metchkur and other sites near Philippopolis).

[&]quot; B.C.H. 1906, p. 316.

Schliemann, Trojs, pp. 254-262.

[&]quot; Harodotna, vii 73.

peninsula. The centre of distribution evidently lay somewhere in the district towards the Danube and the lines forked off from each other so that the Achaeaus went southward to the west of the Phrygians. Strabe says also that the Phrygians passed from Thrace, killed the king of Troy and settled here, that there was much competition for the rich lands and that this had all happened before the Trojan War. Homer's Phrygian allies come chiefly from Asia Minor. The Phrygians seem to have had connexions to the south-westward also, as the Bryges belonged to Macedonia and according to Strabo the Pasonians were a colony of the Phrygians.

Bulgaria forms an easy transition to Group 4, the Bosnian-Serbing-Trojan line (marked with a triangle). Here the pottery found with neolithic objects is not painted but incised or stamped, though the designs include spiral and curvilinear as well as rectilinear motives. Figurines of human beings are very plentiful; they are mostly female and commonly steatopygous. Bihao and Butmur represent the western extremities of this line. which extends through Serbia, particularly along the Danube as far as Radnjevac, including the noteworthy sites of Klicevac and Zuto Brdo, and in the Morava valley as far as Nish. In this district Vinca and Jablanica are especially important stations. At Butmir the spiral, curved, straight or rectilinear designs are incised, dotted or stamped on the soft clay of the handmade pottery. Among the figures the simplest form is a slab-idol with outstretched stumps for arms; others end in pedestalled bases instead of arms, legs or feet. The necks are long, the faces inclined backward and have sharp noses, no chins, sloping foreheads, eyes with heavily ridged brows which often form a T with the nose. Incised patterns are frequent on the torsos, which are generally nude, although sometimes they seem to have a garment fitting tightly about the hips or are adorned with necklass and garlands in dots." At the Bosnian pile village of Ripac near Bihac and at Gresine on Lake Bourget have been found hermaphroditic terracottas, and az Ripac also pyramidal aniconic idols.11

In Serbia along the Morava valley there are remains of dwellings more or less rectangular in plan and constructed of wattle and clay. The incised designs on the pottery are both rectilinear and spirals the closest affinities are with those of Butmir and the Pannonian group of Hoernes. Another favourite technique was decoration by impression or stamping and a third was 'highly polished black designs applied to the surface of the vase on the greyish-white slip' (evidently the graphite style). The incised decorations of the late periods are often filled in with white. ** e.g. Klücevac. Although the well-known figurine from Klücevac is familiar through illustrations, the significance of the site as a whole cannot be too frequently emphasized.

[&]quot; Leaf, Homes and History, pp. 72, 73.

[#] Strabo, xii & 3, 4.

[&]quot; Itid Wv. 38.

M Vassita, B.S.A. xiv. pp. 319 ff.

Hoernes, op. co. pp. 281, 283, 287, 289 (1-5).

¹² Ibid. p. 53, Nun. 1-8; p. 204.

[#] B.S.A. xiv p. 320.

²⁰ H.S.A. siv. pp. 330-338 (pottery).

Vassita, Rev. Arch. 1902 (3 sur. tomu al.), pp. 172-190.

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The red or black pottery incised and filled with white puts this site into connexion with places from Bosnia to Troy. Dr. Vassits is inclined to value it for the combination of what he identifies as geometric and Mycenaean elements although the spirals which he derives from Mycenae are character-

istic of the very group marked with a triangle on the map.

The neighbouring sits of Zuto Brdo at is rich in figures with incised deporations and hand-made vases, dotted, stamped or incised in the usual style. While at Klicevae some metal occurs even in the lower strata, a true neolithic station is Jablanica 50 which Dr. Vassits says stands in the same reintion to Klicevac as pre-Mycenaean to Mycenaean. Even he sees no southern influence here and the affinities with the other sites in this group are remarkable, especially with Kubin in Hungary, Bosnia, Troy and Bos-Ojuk. This is clearly one of the most important sites which has yet come to light. Professor Myres 50 regards it as a site of the utmost eignificance, enabling one to fill in a missing link between neolithic Butmir and Troy since hitherto there had been only the Thrucian tumuli which were too near Troy to be M. Reinach eo calls it another link in the chain which really intermediate. connects Bosnia to the Troad and Phrygia, Hungary and Kiev. This he regards as a unified civilization with local differences, but thinks that an attempt at an ethnic name like Thraco-Illyrian or Phrygo-Scythian would be premature. It is with some diffidence that I venture to disagree with this distinguished authority, but it seems to me that the difference in the two groups is clearly marked, although there doubtless was contact between them.

The classification of about 1,000 statuettes in the Belgrade Meseum shows that they extend from the earliest nude figures with flat triangular faces to the decadent type with bird's head and monstrous nose. Incision is plentifully used to mark the features, necklaces and clothing on the later examples. Standing figures wear a garment like two loin-cloths, square in cut, hanging from the belt, sometimes drawn like a sheath about the hips as at Cocuteni, or with ends hanging in front fastened to the belt with buttons which are represented by little clay knobs. Horizontal bands around the leg may represent boots. A fragmentary bone statuette recalls those from

Bulgaria, Troy and Theasaly.

The attempt made by Dr. Vassits to prove direct connexion between the Aegean and the Serbian cultures must be regarded as a failure; the affinities of Serbia certainly seem to be elsewhere.

We may tabulate Groups 3 and 4 as follows :-

L North of the Danube:

A. East of Carpathians :

 (a) Kiev.—Tchernigov.—Tripolje.—Poltava.—Kharson in the Dniepr valley.

(b) Podolia—Petreny—in Dniestr,

Vanita, Rev. Arch. 1908 (4 ser. tome at.), in 1907, 210.

Vanuita, Rev. Arch. 1902, p. 184; Archiv for Anthropologic, ed. 27 (1902), pp. 518-582.
 Man. 1905, No. 41, pp. 78, 79.

Reimach, L' Anthropologie, 1901, pp. 527 ff.
 B.S.A. niv. pp. 321–328.

Wase and Thompson, th. Ber. 1909, pp. 269–212.

- Galinia (headwater of Dniestr), Cucuteni, Pruth, Bukowina, ...
- B. West of Carpathians:
 - Transylvama : Tordos, Kronstadt.
 - Pannonian : Lengyel, Attersee, Mondsee, Trieste.
- II. In the Danube Valley or South of Danube:
 - I. Bosnian : Butmir, Bihac
 - Serbian : Danube, Moraya.
 - Bulgarian : Rasgrad, Silistria—on Danube, Shumla.
 - Sultan Selo—Upper Maritza, W. branch, Jamboli—Upper Maritza, E. branch (Fundja), Philippopolis.

To sum up: to the north of the Danube the culture along the valleys of its tributaries like the Pruth and the Theiss is closely akin to that in the neighbouring river basins of the Duiepr and the Duiestr; on its southern side as well as along its tributaries the Save, the Drin and the Morava, the connexion is with the Bosnian group. Bulgaria seems to have been the meeting place of both civilizations.

But in order to discuss the connexions with Troy, where the remains of the second city afford many close resemblances to this fourth group (triangles on the map), and where the Balkan-Dannbian connexion becomes again evident in the seventh city of the Early Iron Age, we must consider the possible rontes from the southern bank of the Danube to the Aegean area.

There are three of these, access to all of which is via the Morava. Following up this river to Nish one may go through the mountains and (1) down the Maritza, (2) down the Strymon or (3) across the watershed and down the Axios or Vardar. The first of these routes was taken by the Roman road and also by the Orient Express, and it leads into the parts of Bulgaria where remains have been discovered on both the upper branches of the Maritza as well as nearer to its mouth in the Aegean, whence there is an easy connexion with Troy. The Strymon route seems not to have been as important as the others in ancient or modern times and the insettled conditions in the country have made excavations impossible. It is not so accessible from the headwaters of the Morava, but can be reached with little difficulty and is one of the natural outlets from near Sofia to the Aegean in spite of the elevation of the land through which it flows for part of its course.

The map of present and projected railways a shows that a road has been proposed through this valley.

We shall have to regard it as a route of secondary importance along which there is no good road even now, putting the Orient Express route and the Morava-Vardar route as the two really significant passageways. The Romans seem not to have utilised the Axios valley, which was natural enough as they were not so much concerned with north and south as with east and west. Their point of departure was Dyrrachium, thence north-east to Naissus and south-east to Byzantium, roughly two sides of a triangle the base of which was formed by the Via Egnatia, which went as nearly due east and west as the character of the country allowed. As far as Pella or Thessalonica it must have been an exceedingly difficult and uncomfortable journey, but cast of the mouth of the Axios it followed the coast in the narrow strip lying south of Rhodope. For various reasons it seems that such a caravan route must have existed from a very remote period, or at any rate from the days of Homer, as we shall see.

The great Morava-Vardar route has been from time immemorial the corridor between the Danube and the Aegean, whether the tide of travel set from north to south, as in the case of the earliest invaders, or from south to north, as in the case of our allied armies. It would be absurd to think that the civilization which extended up the Morava stopped short at Nish and did not go down the other side of the mountains via the Axios. Macedonia, to give it its old name, is sure to be a rich field for excavators, for the travels of Messra Wace and Thompson " have brought to their notice a fairly large number of tumuli and settlements in the Salonica district alone. Their researches in Thessaly had fixed the Vale of Tempe as the northern boundary of the Thessalian culture, although sporadic examples of the wares had been found in Thrace. That northern boundary has now been pushed as far as the Haliacmon valley where sherds of Thessalian I, and II, were discovered at Serfije, while the investigations in the vicinity of Salonica make it probable that Macedonian culture partook of the character of its neighbours both to south (Thossaly) and to north (Danube-Balkan) In this neighbourhood they observed thirty-four funeral tunigh of a type unknown in south Groves but common in Thrace and extending also to Pergamon and to Kerteh, and twenty-six prehistoric settlements furnish painted pottery which resembles the Thossalian II. III. and IV. as well as a thin spreading of L. M. HL of a type identified as mainland (not Crutan). There is also incised pottery of a simple geometric type, but according to Mr. Wace there was not enough of it to tell its relations to Thessaly, Thrace or Bosnia." These excavations are as yet unpublished 16 and one must not draw premature

⁴⁸ Newbigin, Geographical Aspects of Balkan Problems, Fig. 7, p. 103; Johnson, Topography and Strategy of the Was, th. 481.; Hogasth, The Neuror East, ch. 2011, p. 210, Fig. 44.

Wace and Thompson, Liverpool Annals, ii. (1909), p. 159 ff.; Wace, B.S.A. ex. pp. 123-132

Waon, B.S.A. xx p. 129. * Carried on by Massidy Bey.

conclusions, but we can at least connect Macedonia with Thessalv, Thrace, Serbia and Bosnia. at

Before considering the connexions between Troy and this area we may note that the Bosnian-Serbian line does not stop at Troy. Yorian on the upper valley of the Caicus in Mysia " and Bos-Qiuk near Phrygian Dorylaion. on the Sangarus" have furnished pottery similar to the Trojan, although some weapons of bronze show that the former site belongs to the Chalcolithic Age.

Mr. Ormerod's recent discoveries have added several sites which show some connexion with Troy and the Balkana. 70 From Thyatira a seated female figurine with flat disc-like face and crossed bands on the breast recalls the lead figurine from Troy as well as one from Selendi (near Thyatira), and is even reminiscent of Bosnia," and three small vases with animals beads and beaked forms are said to come from this vicinity." Further researches in northern Lycia, south-western Pisidia and southern Phrygia have supplied important material.

Tchai-Kenar ™ near the Taurus is connected with both Troy and Cyprus by its pottery which includes burnished black, red-glazed and black-glazed incised wares which belong to the first and second cities at Hissarlik, and 'ned Cyprints' painted wars of the early Iron Age. There is also some degenerate Mycenaean tradition and some non-Aegean influence which may perhaps have come via Cappadocia from the geometric areas of Western Asia. Two flat little headless figures of marse white marble from this vicinity are difficult to assign to any particular group, but perhaps belong to the Island type,74

On the basis of the pottery from Senirdja near Isbarta in north Pisidia) which is chieffy dark grey burnished ware like that from Cyprus and Hissarlik in general style and shapes, decorated with broad, flat scorings, little lumps, or flutings, or rarely with incisions filled with white, the Hellespontine-North Phrygian area is extended further south-eastward. Similar pottery was found at Bonnarbashi Giol 76 (near Apamea) together with five early bronze implements, two flat celts, two Cypriote daggers and one unfinished object, presumably a celt.

Other connexions are suggested by two small stone steatopygous figures from Tchukurkend," as this type does not occur at Troy, or at Yortan (where the figures are flat) nor is it characteristic of the Aegean in spite of a few examples. It is, however, as we have seen, very common in south-west Europe, Thrace and Thessaly.

^{*} See Professor E. A. Gardnar in The Times Literary Supplement, March 29, 1918.

Barrows, ep. cr. p. 185 (aute 13).
 Koerte, Ath. Mitt. 1899, pp. 1-45; Pt. I. -IV

Ormsrod and Woodward, B.S.A. avi. pp. 76-126; Ph. VIII.; Ormered, R.S.A. zviii, pp. 80-84; Ph. V. VII.; B.S.A.

zix. pp. 48-60.

¹¹ B.S.A. xix, pp. 54-56, Fig. 3.

¹¹ Ibid. p. 50, Fig. 4, a, b, r.

B.S.A. xvi. pp. 94-103.

²⁸ Ibid. p. 195; Pl VII. Nov. 18 and 19.

³⁰ R.S.A. criti. pp. 80-91.

[&]quot; Ibid. pp. 01-94.

[&]quot; B.S.A. xix. pp. 48-52, Fig. 1.

A flat, slablike torse of bucchero with crossed incised bands and punctured decoration from Kul Tepe near Caesarea recalls the Tahai-Kenar figure published by Mr. Peet, and the flat murble figures from Fulga in the Istanoz plain, and may be a crude example of the violin-shaped type found in the cyclades and Hissariik and at Yortan.

To sum up, the line may be extended south-east on the evidence of the pottery and figurines while at the same time a counter-influence from Cyprus was making itself felt. We are hardly set in a position to tell which came first. Certainly the Cypriote influence continued into the Iron Age. Dr. Leaf, when discussing the Lycians among the Trojan allies, lays great stress on their commerce, which he believes was carried on principally by sea (see Map. Fig. 2), but for other purposes the overland mute was doubtless



FOR 2. THANK ROPERS CONVENIES OF THOY,

- (1) Paphlagonians and Halixones
- (4) Thructans and Paramians ------

used. Elsewhere ** he has some very instructive remarks about the difference between routes for commerce and for other purposes which should be borne in mind when one is tempted to a hasty conclusion as to one (and only one) way to reach a piace. Naturally it all depends on what you want to transport.

Long ago Professor Myres pointed out the connexions between Cyprus and Hissarlik and suggested an overland route. Hissarlik combines

^{*} Ibid, pp. 59, 60, Fig. 6.

Leaf, Trey, pp. 308 ff.

[&]quot; Leaf, B.S.A. aviii, pp. 301-313.

European and Asiatic, Danabian and Cypriote elements in pottery, implements, bronze and copper 31. The recent discoveries have gone a good way towards confirming this view and give us milestones on the route.

Contemporary with the Balkan modified period was the second city at Troy with its face-urns, its jars with suspension holes its white-filled incised pottery, its wealth of metal—copper and bronze and the golden royal treasure—as well as the continued use of stone which bears witness to foreign trade extending from Melos to China, its northern type of megaron and the evidences of great prosperity of the city during its long occupation.

An important point to be noted regarding strata $\Pi = V$, which successful the great second city after its destruction by fire is the possible indication of the first arrival of a fresh civilization before the end of Period V.

when painted pottery makes its first appearance.83

The sixth city is of course contemporary with L. M. and was destroyed in the Trojan war. In the seventh stratum there are records of fusion of the successors of the older city with another wave of invaders. Early Greek geometric pottery is found with crude barbarous knob ware and with metal axes, hammers, chisels, needles and rings which are neither Trojan nor Greek, but typically Danubian. These may perhaps be attributed to the Treres, a Thracian tribe, who with the Cimmerians crossed the Bosporus in post-Homero times, probably about the eighth century. A mould for a buttle-axe of Danubian type shows that these people were metal-workers and practised their art at Troy itself.

If we turn next to the testimony of Homer we shall see that the valleys of the Strymon and the Axios belonged to the Paconians who were numbered among the allies of the Trojans. The Map (Fig. 2) shows in graphic form the four lines which Dr. Leaf takes to represent the four trade routes which converged on Troy, starting from the four groups of allies given in the

Trojan catalogue.86

The three of these which lie in Asia Minor need only passing mention; they are (1) the Paphlagonians and the Halizones from far-away Alybe who dwelt along the shore of the Black Sea, tapped the country lying to the south and shipped their goods via the Bosporus and the Hellespont.

(2) There were the Mysians and Phrygians, the near neighbours of the Trojans, who lived up in the back country and who had doubtless crossed

from Thrace at a remote period."

(3) There were the Maconians, Carians and Lycians, who probably were traders rather than fighters and who followed a line up the coast inside the islands by what was known as the inner lead."

(4) Another group of lines which led to Troy particularly concerns us.

Myrns, J.A.I. Nov. 1897 : Catalogue of Cyprus Museum, pp. 17, 18.

[#] Leaf, Troy, ch. iii, 60-80.

^{55 /}but. p. 84.

^{**} Losf, Troy, pp. 102-112.

⁸⁶ Ibid. p. 270.

⁼ Ibid. pp. 278-296.

[#] Inid. pp. 297 304

[#] Ibid. pp. 305-311.

But Akamas and Peiroos led the Thracians, even all them who are bounded by swift-flowing Hebrus.

And Euphemos was captain of the war-like Kikones."

Pyraichmes led the Paconians of the crooked bow from far-away Amydon, from the wide-flowing Axios, Axios whose water is the fairest that flows upon the earth. **

In a word, they are Thracians bounded by the Hellespont, Pasonians from the Axios, and Kikones between them. No Thracian tribes are specified and no town named in the catalogue, but Peiroos, one of their leaders, comes from Ainos, the harbour at the mouth of the Hobrus and the obvious portfor that valley, exactly the Maritza on which we found there were plentiful remains.

Next to them came the Kikones with no specific boundaries mentioned, but other evidence connects them with Mount Ismarus, which separated them from the Hebrus valley. It is not easy to say where was the ancient port;

it was probably at Dede Agatch of

The Paconians, as Professor Macurdy of has shown, originally occupied for more extensive territory than they did later when the Macedonians drawe them back to the upper Axies. They doubtless extended from the Nestes to the Axies, including on the way the Strymon and the Paugaeus range. That they were people of great wealth and importance is clearly manifest for they had the gold and silver mines of Paugaeus and rich fortile country for corn-growing. Probably a large part of what was later Macedonia was formerly inhabited by the Pacenians, whether they belonged to the Thracian or Illyrian stock. These I think, anyway, were branches of the same people from the Danube district. The Thracians are specially mentioned for their metal work, goblets, and great swords, and also for their white horses, which were famous from the time of Rhesus throughout classical antiquity.

If we include in Paconian territory the mouths of the Axios and Strymon, we should undoubtedly connect them by a road via Lake Bolbe cross the top of Chalcidice. From Troy the sea route to Salonica would have been both long and dangerous, as Xerxes learned to his cost. From the mouth of the Strymon the route to Troy might be overland via the coast towns already mentioned, or across the sea by a straight south-east course, or by the stepping-stones of Thasos, Samothrace, Imbros and Lemnos. This countexion seems more than likely in view of Professor Macurdy's researches,

which are based chiefly on names and religion.

The Dardanians gave their name to the Dardanelles and seem to have followed the route to Troy via Samothrace, the island which Pausanias says had originally been called Dardania. Dardania-Paconia was from early times an important commercial centre, right on the trade-route from the Danube, and much metal must have passed that way. In historic times the

[&]quot; Hatt. H. 843-877.

[&]quot; Leaf, Troy, pp. 271, 272.

[&]quot; Had p. 272.

Macurdy, in Terminations Am. Phil. Asso., alvi. 1915, pp. 119-128.

¹⁰ Ibid. p. 122.

comage of that region was remarkably rich, as the researches of M. Svoronos have shown.24

Hardly enough excavation has taken place to prove much about remains, but there must have been some contact as the references to Lemnos and Imbros in the Head show. Moreover, Lemmos kept up relations with both Trojans and Greeks: Dr. Leaf describes the Lemnian attitude to the Greeks as one of friendly neutrality; it was a base of supplies and a market for slaves, but also maintained commercial relations with the Trojans, acting as brokers for the ransom of important prisoners." Maybe its position was like that of the present Switzerland, which has had to keep on friendly terms with both sides in the war.

These converging lines indicate that Troy was a meeting place for people from both sides of the Aegenn, and that the whole Hollespontine district must be regarded as a geographical unit. One is tempted to conclude that at one time all roads led to Troy whether they were land routes or over the wet sea ways. Dr. Leaf's viow, now familiar to all scholars, is that Troy's wealth was due to her control of the Dardanelles and that with the fall of Troy and the opening of the Straits to the Greeks her glory departed. This would give a reasonable explanation of why she never rose again to any importance after the destruction of the Homeric city. The fact that the book Troy, a Study in Hameric Geography, was published in 1912 will show that this suggestion was based on independent evidence and in no wise influenced by recent events, which have demonstrated so clearly the infinite importance of the control of the Dardanelles.

And it was not only the Dardanelles which contributed to Troy's dominant position. Salonica, that other strategic point of such value to the Allies at first during a long period of apparent inactivity and then as a hase for a great movement northward which reached to the Danube and beyond-Salonica seems also to have had close connexions with Troy.

We find that Troy was but slightly influenced by the Aegean civilization, and if we believe that the Greeks of history represent the fusion of northern or Achaean conquerors with their Mycennesa subjects, and that the northern element was Greek or Hallenic par excellence, then we may not only accept Professor Bury's suggestion that the Trojans were Greeks,00 but also, paraphrasing Hibernia ipsis Hiberniores, we may say that they were more Greek than the Greeks themselves.

This would be af course but an absurd half truth, for to Troy us to Hellas many elements contributed. We do not know what was the original stock at Troy, but we know that the Danubian element came early and came often, that there was connexion with Cyprus and with the Anatolian districts, but that the Aegean influence was temporary and apparently rather superficial, and that after is had passed the old European kinsmen once more poured into the city of their ancestors.

IDA CABLETON THALLON.

^{*} Hid. p. 125.

¹⁴ Leaf, Troy, p. 268.

^{**} Bury, Quarterly Review, July, 1916.

TWO NOTES ON HELLENIC ASIA

L.—THE ARAMAIC PARCHMENT FROM AVBOMAN.

In the Journal of Hellenie Studies, xxxv. I (1915). Mr. Ellis Minns has given an interesting account of three documents found at Avroman, west of Hamadan, and has deciphered two of them which are in Greek. The third is written in an Aramaic alphabet which has hitherto remained undeciphered. Mr. Minns was good enough to send me a photograph of it, but I postponed an examination of this until I could have an opportunity of seeing a second text, also in Aramaic letters, but attached to one of the Greek documents and therefore presumably relating to the same transaction. When a photograph of this second text arrived, however, it was not distinct enough to be of any use; the ink of the original had been too much rubbed to allow the forms of the letters to be fixed with certainty.

Owing to the war and my absence from Great Britain I had to put aside all further thought of the Avroman documents, and it is only since my return to this country that I have been able to look at the photographs of them again. The Aramaic is extremely cursive, various letters being written alike; hence the difficulty of its decipherment. But I can now give a translation of the text, which is not in a 'Pahlavi dialect,' as has been suggested, but in an Aramaic dialect which, as might be expected from its geographical position, has been affected by Assyro-Babylonian influence. It is only the proper names which still offer difficulties, and I must leave the final determination of these to other scholars.

The text in Hebrew transcription :-

- שנת ///(13) ורחא ארבתת בנפנו ה(ס)סקר ברו סובין 2 זי מן גזכו כרמא אתמר מם אבוכשרן חלך וצת 3 תבנו אויל ברי גשנין ברי אחו כלא זבון כסף ////
 - 4 מאמן זימחסני א . . . חמי אכלו חרמסבו
- שהדין (מודד) ברי א(ס)ין ... ברי (כ)שנו ארשתת
 ברו א . נ . דד(ו/ת/נמי ברי מסדהרי סונך ברי מא(ס)ח(ו)
 - ל ברמא אתמרת ברמא זבנת אויל מן
 - 8. ה(ס)סהר כלא ובון כסף ////

Year 321 (f), month Arbateth, in Kophnu Hassahar (f) son of Sobin.

2. who is from Gazaku, has sold the vineyard, water, fruit and stocks, access and egress.

3. and Awil son of Gashnin son of his brother has bought it. He has bought

the whole for 5 pieces of silver.

- 4 Whoever [disputes] my possession, bitter (be) his food, accursed his virink !
- 5. Witnesses Modad (?) son of Asin (!), ... son of Kashnu (!), Arshateth
- 6. son of A Dad . . . mi son of Masdahari, Sunak son of Maskhu (?).
- 7. [I Has s ahar] have sold the vineyard. I Awil have bought the vineyard
- 8 Has(1)-sahr. The full purchase-money is 5 pieces of silver." Letters between brackets are doubtful.

Notes.

I. The date is doubtful, though the ciphers read as I have given them. But I do not know of a parallel to the mode in which the hundreds are represented, and in and (1.3) samech has the same form as the cipher 20. But D, which would then be the reading, would yield no sense.

Warkha, month, for some indicates Assyrian influence.

Arbateth must be the Baktrian Kharbatat Neo-Persian Khordat. In the list of Cappadecian months the name is written 'Apaiôrara : Epiphanius (De Huer, ii. 24) gives it as 'Aparar, and states that the 13th of it corresponded with the 6th of January.

I read Kophau, since in the Greek documents the name of the village

appears as Kophanis and Kopanis.

The name of the seller is unfortunately not quite certain. The second element in it, however, seems to be s-H-R, which would represent s-TH-R, as Meso represents Mithr(a) in the Greek documents. The first element would correspond with that in Haus-tanes, written Os-thanes by Pliny (compare the Torarns of Hdt. vii. 77). Perhaps the whole name is that written Oxathres by Diodorus, though the second element is rather that found in Megasidras, if this is the Old Persian Bagachitra (kitra, 'offspring, becomes chehr in later Persian, as Mithra becomes Mihr). I am uncertain whether or are should be read. In the majority of cases the final letter is written like , rather than , On the other hand, 772 instead of 73 would be explicable as an Assyrianism, modelled after the Assyrian mar-su (sa), "son (of)," literally "his son (of)." Sobin is the Σωβήνη of the Greek documents,

G-Z-K-U is evidently the Ganzakê of the Greek documents.

is the Ethpael of the verb, which appears in Hebrew as מור and the Hiphil of which means to sell, as in Mic. ii. 4. I am uncertain whether the word is to be regarded as a 3rd pers s of the perfect or as a 1st pers. s. of the imperfect, as NOTES in 1. 4 might imply.

מרא is the Assyrian mami. We should have expected מין or מין

The Aramaic 28 in the sense of 'fruit' is found in Dan. iv. 9.

The Greek documents show that _____, the Syriac kashor, must signify 'vine-stocks' in this passage. The Greek, as translated by Mr. Minns, is 'water and vine-stocks, both those in bearing and those not, and ingress and egress'

3. און is the usual Aramaic verb for 'buying' a piece of property. In Palmyrene און is 'he bought.'

Awil is the Assyrian Awilu, 'the man.'

4 posts is again an Assyrianism.

prim is from prin. 'to passess'; op. Dan. vii. 18. The word which follows is partly obliterated.

130 is for 1830.

5. The reading of the first name is wholly uncertain. The first letter may be m, s, or h; the second b, g, or n; and the third and fourth d, r, or n. The second letter of Asin (I) may be kh. The next name is obliterated. The first letter of Kashnu may be r or possibly h; the last letter is perhaps p.

With Arshateth compare 'Aρθασθάτης and 'Aσθάτης in the Greek

documents

 1 cannot suggest any reading for the first name in this line, and the next name is partly obliterated.

With the spalling of Masda-harr cp, the Greek 'Apa μάσδης. Has s.v.n.κ anything to do with the Greek Σιάκη, Σιαυάκος !

Since the above was sent to the printer Dr. Cowley has published an article on the Avronan text in the Journal of the Royal Asiatic Society (April, 1919). We agree in the reading and rendering of the "key-words," but he is undoubtedly right in making the name of the month Arotat instead of Arbateth. He makes Tirik the name of the first witness.

H.—Note on Mr. Arkwright's Abticle upon "Lycian and Phregian Names."

In his article on 'Lycian and Phrygian Names' (Journal of Hellenic Studies, xxxviii, p. 70) Mr. Arkwright questions the value h which I assigned to the Karian letter ‡ or ‡ in my decipherment of the Karian alphabet and inscriptions (Trans. of Soc. of Biblical Archaeology, ix. 1; 1887). A reference to my Paper will show that I did so with considerable hesitation, but the value has since been accepted without question by all the scholars who have interested themselves in the Karian inscriptions, and has now been given as a matter of course to the same character in the newly-discovered Lydian texts.

These Lydian texts, however, have raised some doubts in my mind. It does not appear to have been noticed that the word for 'king' in them, which is to be read h-a-l-m-l (Mr. Arkwright being obviously right in the value he suggests for the third and fifth letters), is the $\pi \delta \lambda \mu \nu \varepsilon$ of Hipponax (0), which we are told was the Lydian word for 'king'. It seems to be

allied to the Phrygian $\beta a\lambda \dot{\eta} v$ and Trojan $\pi \dot{\epsilon} p p a \mu o s$, which had the same signification. It looks, therefore, as if + in Lydian had a value which to the ears of the Greeks resembled p, a sound which otherwise does not seem to be represented in the Lydian alphabet. On the other hand, if the letter in question does not correspond with h, the aspirate which we know from proper names to have existed in the Lydian language would not have a representative.

A. H. SAYGE

THE VENUS DE MILO AND THE APOLLO OF CYRENE

At the recent temporary rearrangement of the sculpture galleries of the British Museum a cast of the Aphrodite was accidentally placed by the side of the large Apollo discovered at Cyrene by the British excavating party. This Apollo has, it appears to me, suffered from an inadequate appreciation of later Greek art, especially of the Eastern schools, and it has been a victim to our poverty in descriptive terms. By this poverty Greek sculptures which are later than what has been supposed a 'good period' are all swept up together as 'Roman' Roman Art at the simplest is quite the most difficult to determine because so little of it was truly and characteristically Roman. The term is used as of local significance, then in an imperial sense and again of an undefined span of time.

The following rough grouping of late classical sculptures may be suggested tentatively, but the whole question of an extended and precise nomenclature needs to be considered and would be a fit subject for a conference of archaeologists.

- (1) Original works wrought in Greece and Hellenised lands, which necessarily continued older traditions and often showed admiration and study of the great masters (Later Greek and Hellenistic).
- (2) Semi-original work which intentionally simulated the style of some former school (Archaising, Archaistic and New Attic).
- (3) Copies of antique sculpture more or less accurate and competent (Antique Copies).
- (4) Original Sculpture wrought in Rome and lands artistically dependent on Rome answering to a Latin tradition (Roman).
- (5) Work supplying a Roman demand, by Greek artists following Greek traditions (Gracco-Roman).

Our Apollo of Cyrens belongs to Class I. It was no reproduction for a collector but it was a traditional work wrought for a definite place and for a ritual purpose. It is the cult statue of an important temple in a rich and artistic city: it is of semi-colossal scale, choice material and most competent workmanship: it must be one of the most perfect temple statues known and is a finely preserved example of the sculptor's art; the polished radiance of the face reflects a light on marble sculptures generally, and yet this fine statue is hardly mentioned in the books and is badly crowded by inferior works in the Museum. It should be isolated, set in a vista and made known as an authentic cult statue which once occupied the chief place in the temple which sheltered it.

It belongs to a well-known group but it is a variant of an unexhausted type; an original Hellenistic work of 'sacred' character, it may have had more than a local reputation. The type was still famous at the beginning of our era and such an Apollo was represented in a painting of the twelve gods at Pompeii illustrated by Gell. The juxtaposition of the cast of the Aphrodite and the marble Apollo brought out quite remarkable resemblances in their general structure and treatment, so much so that I could readily believe that both might have been the work of one master. Several points of evidence which I must pass over might be brought forward

to show that this Apollo is a work of the second century B.C.

Three suggestions may be gathered from the Apollo to apply to the restoration of the Aphrodite. Her left foot was certainly raised a few inches above the ground and rested on an object or step 1 her right hand did not necessarily support slipping drapery; indeed the raised left foot throwing the thigh out at an angle, the 'straddling' pose and inward swing of the left leg would just serve to support drapery thus wrapped around the hips: By her left side was some accessory taking the place of the tree-stump and serpent of Apollo. In Furtwangler's excellent account of the Aphrodite he shows that a subsidiary figure " was found with the statue but he summed up against its authenticity and, in his restoration, substituted a plain pillar. Now in the Fitzwilliam Museum, Cambridge, I have just seen a fragment of a Venus (about half scale) which obviously repeated the characteristics of the Venns de Milo and must have been a very inferior copy of it. It is described as : Fragment of Aphrodite found in the Troad-Clark No. 2 (Note the place of finding). The upper part of the figure is missing but fortunately it was broken across the nude body at some distance above the drapery, which is complete. The left foot is whole and was raised above the ground level. By the left side of the goddess, a statuette on a pedestal was represented. This companion figure was draped to below the knees but the manner of draping suggests a male figure (a Hermes !). Its proportions show that when complete it must have risen above the waist of the greater figure of the goddess to a beight which would have been suitable to support her left arm when partially extended. I may mention also that at the Victoria and Albert Museum there is or was a little terra cotta figurine of Aphrodite who leaned against Eros standing at her left side. Again the Unidian had a support for her left arm;

We may now confidently conclude that the Venus de Milo leaned her teft arm on a pillar or a subsidiary figure representing a statuette; for

Compare the Venus of Capus which is practically a copy of the Venus de Mile: also the Victory of the Trajan solumn.

Two berms were illscovered but a socket

in the plinth of the statue shows that only one figure or object was associated with it. See Reimath's Repairoire for other figures.

myself I think the evidence is in favour of the latter. As Furtwangler points out the carving of the left side of the statue suggests that an object prevented its being fully seen and a pillar would hardly have been sufficient reason for any modification of workmanship. The same attitude, leaning



Pio. I.—Skerch firm a Drawing of a Painting at Poment,

for support to the left with the left foot raised on a step, is found on a little ivory relief of Hygieia (c. 380 A.D.) in the Liverpool Museum (Venturi, Storia vol. i. p. 391.). Here however the support is a tripod with a coiling snake. This support for the arm rises high and the hand droops. The source of this design may have been an Apollo of the Cyrene type, but there is in it, I feel, some memory of the Aphrodite. As to the action of the lest right hand of the Aphrodite, the Cambridge fragment shows that the drapery was not held. As this little work was all in one piece traces of the hand could not be lost, as might possibly be the case with the great original, if the lower arm of that had been in a separate piece.

There is in the Print Room of the Victoria and Albert Museum a drawing by Mr. S. Vacher of a faded painting at Pompeii of a Venus which to some degree seems to echo the statue although it is more nude (Fig. 1). This painted Venus held a mirror in her left hand and with her right adjusted a wreath; and I am drawn to think that the Venus de Milo followed the toilet motive of the Chidian. It has hardly been brought out that the latter, occupying an open

kiosk in an enclosed garden or 'grove,' would almost certainly have stood close to a fountain basin in which it was reflected—a Bath of Venus. Polished, coloured, gilt ' and set around with flowering shrubs it was far more than what we call a statue, it was an apparition. The Aphrodite of the 'Clardens' at Athens again must have represented the goddess in a sylvan sanctuary.

W. R. LETHARY.

^{*} The hair of this Venus de Modini was gift.

THE PROGRESS OF GREEK EPIGRAPHY, 1915-1918.

In my last epigraphical summary (J.H.S. xxxv, 260 ff.) I dealt with the period from July 1914 to June 1915 inclusive. The present article continues the record down to the close of 1918. The conditions of the three and a half years which it thus attempts to cover will, I hope, prove a sufficient excussifor any omissions which may exist—as I fear they must—in the following pages. That the output of these years should have been so much smaller than that of normal times will cause no surprise; what is surprising is rather the fact that so many books and articles should have appeared, including not a few of great and permanent value, during a world-erisis which has demanded the thought and activities of many and the fives of some who would otherwise have been engaged in epigraphical work-a fact which affords striking testimony to the vitality of the studies with which this article deals. Actual excavation has naturally been brought almost completely to a standstill, and the number of inscriptions published for the first time is consequently small, but noteworthy progress has been made in the restoration and interpretation of numerous previously known, and in some cases very familiar, documents

General.—The war has inevitably retarded the progress of the great collections of inscriptions, especially of those volumes which depend upon international co-operation. Nevertheless, the fascicule of the Inscriptiones Grascae devoted to Euboea appeared in 1915, and two further instalments of the second edition of I.G. ii. and iii. have also been published; these will be noted below in their proper places. Collitz and Hoffmann's invaluable Sammlung der griechischen Dialektinschriften has at length been completed, thirty-two years after the appearance of the first part; the concluding section, edited by E. Fraenkel and K. H. Meyer, contains addenda, grunmar, and index to the dialect-inscriptions of Crete and to those of Sicily. A useful collection on a much smaller scale is G. Nicole's Corpus des céramistes grees, which contains a complete list of the extant signatures of the 131 potters and painters whose names have survived on their vases.

Two selections of epigraphical texts claim notice. An event of first-rate importance is the publication of a third edition of Dittenberger's Sylloge Inscriptionum Graecarum, which ever since its first appearance in 1883 has

TV Band, 4 Helt, 3 Abt. Göttingen (Vandenhoork u. Buprecht) : 9 M. 89.

Paris (Lemma), 1917. Reprinted from Ren. Arch. iv. (1918), 3734f.

held unchallenged the first place among books of its kind and has deserve-lly ranked as a masterpiece of insight and erudition. The new edition, in the preparation of which F. Hiller von Gaertringen has had the assistance of J. Kirchner, E. Ziebarth, and H. Pomtow, contains a portrait and memoir of the author, who died in 1906, and the two volumes already issued comprise the historical inscriptions arranged in chronological sequence; the third volume is to contain the sections dealing with res publicae, res sucrae and vila privata, the fourth will be devoted to indices. The immense growth of the historical section (910 inscriptions, as compared with 424 in the second edition) is due in part to the discoveries of recent years, in part to the insertion in this category of texts which previously appeared in other sections of the book, in part to the admission of a somewhat disproportionate number of Delphian documents. The modifications introduced, notably the titlesprefixed in thick type to the several inscriptions, make it much easier to consult the work, which has already taken its place as the standard selection of Greek inscriptions. R. Helbing's Auswahl aus griechischen Inschriften* is maccessible to me, but from reviews by W. Bannier and W. Larfeld 1 learn that it contains a short account of the letter-forms, language, dating and value of Greek inscriptions, together with thirty-seven duly classified texts accompanied by German translations and brief commentaries.

In 1916 the British Museum successfully completed the publication of its magnificent collection of Greek inscriptions, of which the first volume appeared in 1874. The concluding section, edited by F. H. Marshall, forms the second portion of Part IV and contains Supplementary and Miscellaneous Inscriptions' and a re-issue of the celebrated inscription of Cains Vibins Salutaris (No. 481), together with indices and comparative tables to the whole collection. It comprises 232 texts, most of them excellently illustrated by photographs or facsimiles, carefully revised and accompanied by an adequate commentary. Some of the texts-ag. the Rosetta Stone, the Sigeum Stele, and the two bronze tablets from Ocanthea--are among the best known of all Greek inscriptions, but 48 of them are apparently unpublished previously, including a long but unhappily fragmentary decree of a Giagos at Tees (1032), a decree of Xanthus dated 257/6 n.c. (1042), and the latter part of a decree of Attalia, probably of the first century. B.C (1044). The Trustees of the Museum are also to be congratulated on the issue of an excellent Guide to the Select Greek and Latin Inservotions. exhibited in the Department of Greek and Roman Antiquities by A. H. Smith at the astonishingly low price of sixpence. It contains a short introduction on the early Greek alphabets and some account, usually accompanied by a facsimile or by a complete or partial transcription, of 101 texts (82 Greek, 18 Latin, and 1 bilingual) exhibited in the Hall of Inscriptions or elsewhere.

^{*} Leipzig (Hirzel) Vol. I, 1915 - 30 M. Vol. II, 1917 - 25 M. Reviewed J. H.S. excell. 127 L. Berl. phil. Work. excel. 921 ff., 953 ff., excell. 1021 ff.

^{*} Berlin n. Leipzig (Goschen), 1915; 90 Pf.

^{*} Berl. phil. Weels xxxvi. 321-ff.

^{*} Work, blogs, Phil 1915, 1062 ft.
* Americal Greek Interpolation in the British Missions, IV, seet. 2, 1916. Reviewed Class. Rev. xxxi. 141 ft. (J. A. F. Minney).

A H Smith's valuable paper? on reliefs recently acquired by the British Museum is only incidentally epigraphical, and the inscriptions on the reliefs discussed have appeared in Marshall's work already mentioned. The only other Museum publication to be noted is E. M. Pridik's catalogue of stamped amphora handles and tiles in the Hermitage Collection at Petrograd, known to me only through a review by F. Hiller von Gaertringen. A fourth series? of A. Withelm's valuable None Beiträge zur geschischen Inschriftenkunde calls only for passing mention here, as the discussions it contains will be referred to below under their appropriate geographical headings.

No general works on Grock epigraphy have appeared during the war, but A. Rehm's review ²¹ of the third edition of Larfeld's Grinchische Epigraphik is noteworthy as calling attention to a number of weaknesses in this standard work. C. M. Kaufmann's book ¹² on Christian epigraphy is still inaccessible to me, but the name of its author is a sufficient guarantee of its value.

Several important articles have appeared bearing directly or indirectly upon the vexed question of the origin of the Greek alphabet. J. Sundwall devotes an interesting paper is to the Cretan linear script, giving complete catalogues of all the signs used in the two systems A and B, the latter of which he regards as a Chossian remodelling of the general A-type, due probably to dynastic influence. The author is convinced that the Cretan linear script was syliable in character, and believes that the finds recently made at Tiryns are in this script probably of class A. He appends a list of 62 men's and 41 women's names, and holds that there are indications of their non-Greek character. A. H. Gardiner has published 14 a series of cleven texts from the Sinaitic peninsula in a writing which apparently stands midway between the Egyptian hieroglyphs and the Phoenician letters, and affords a valuable argument in favour of the Egyptian origin of the Semitic alphabet. K. Sethe, who in 1910, before learning of this new evidence, maintained in a lengthy acticle 18 the Egyptian derivation of the Phoenician writing, has wholeheartedly acciaimed 14 Gardiner's discovery. 'We must,' he says, 'be dealing here with an intermediate stage between the Egyptian script and the later Phoenician or Semitic alphabet. The missing link for the derivation of the Phoenician alphabet from the Egyptian script has here been found. This derivation itself, the inner necessity of which could hitherto be established only theoretically, is thus practically proved to be a fact (p. 449).

Assuming as proved the Phoenician parentage of the Greek alphabet E. Hermann has attempted ^p by a novel method to discover the branch

^{*} J.H.S. xxxy 65 ff.

⁺ Bert phil Work annual 1020 H.

[&]quot; Sieb. Wies, claxis. 6.

D Bert phili Wook, xxxvi 1986 ff.

¹⁰ Handland der ale krestlichen Epigraphik, Freiburg 1. B. (Hetder): 18 M.

I Junet xxx, 41 ft.

^{**} J. Eg. Abyth: III. I II.

¹⁰ Gilling, Nucles, Geschaftliche Büteil,

^{**} Ontting, Noche, Phil.-hist Klane, 1917, 437 ff.

H 76, \$76 ff.

of the Greek race in which the Phoenician script was transformed into the Greek Eralphabet. In fourth-century Athens π and β were named $w\bar{e}l$ and $\beta\bar{\eta}\tau\bar{e}$ respectively, and as these names are probably original we must look for a section of the Greeks which always made a distinction between the two vowel sounds represented by $\epsilon_l(\bar{e})$ and $\eta(\bar{a})$. This rules out the Dorians and establishes a prima facie case for the Ionic-Attin Greeks, though it does not absolutely dismiss the claim of one of the various Achaean-speaking groups. Hermann's article is subjected to a trenchant criticism by A. Mentz, who points out the weakness alike of its assumptions and of its method and, while admitting the interest of the letter-names for the history of the alphabet, denies that these prove anything about 'the language of the Greek Uvalphabet.'

Several miscellaneous articles still call for notice. F. Hiller von . Gaertringen gives an account 10 of the recent progress made in the publication of the I.G. and other great collections with indications of what may be awaited in the near future. R. Heinze's essay to on the metrical epitaphs of fallen warriors draws mainly upon literary material though opigraphical examples also are cited; the same is true of J. Geffcken's studies in the Greek epigram and of the same scholar's selection of epigrams." A. Mentz has shown " that Reinhold Luberan of Königsberg, the narrative of whose travels (1573-89), embellished by numerous copies of inscriptions, has recently been published.34 does not include in his collection any new material of value; not only is his work inexact and undiscriminating, but there are proofs that he derived solely from literary sources some of the texts which he claims to have seen with his own eyes: K. Scherling examines the inscription MNHΣΘH, which occurs, alone or in conjunction with a personal name, on nine gems of the Imperial period, a gold ring from Syria and a graffito from the temple at Baalbec, and concludes that the word is a curious form of the 2nd person singular agrist conjunctive, passive in formation but middle in inflexion. The ancient abacus has been exhaustively treated by A. Nagl, who describes and discusses extant Egyptian, Greek and Roman examples; although no attempt is made to examine in detail the Greek numeral notation as such, there is much in this essay which is useful for the study of the acrophonic system, and a special chapter is devoted to the historical relation of the Greek alphabetic notation to the abacus. In a suggestive paper " on the terms είρηνη, σπονδαί, ἀσπονδεί, etc. B. Keil traces historically the meaning and use of these words in inscriptions and in literature, and incidentally discusses a number of epigraphical texts, a list of which is included in the

[&]quot; Beel, phil. Work xxxviii 1173 ff

¹⁴ Klio, xv. 184 ff.

[&]quot; New Jahrh Kt. Alt xxxv. 1 ff.

m The music, 88 ff.

[□] Griechische Xpigramme, Hesilelberg (Winter), 3 M, 60.

MACA AND TEXT 49 ff

Mitteilungen aus der Stadtbilliothel := Konligherg i. Pr. iv ff.

[#] Herman, fiit 88 ff.

Die Rechentefel der Alten. Sitth. Wien, elxxvii. 5.

⁵⁵ Lasproper Berichte, tavin 4.

index appended to the essay. In an article * which lies on the borderline between epigraphy and numismatics the same scholar examines the epigraphical indications of the currency and value of the victoriatus in Greece and Asia Minor: he explains the phrase τόκος τροπαϊκιαίος in an inscription of Magnesia sub Sipylo as = 6% and restores the word τροπαίκου in a manumission record of Larissa (LG. ix. 2 549) in place of the enigmatic -PITAIKON. In reply to O. Montelins who dates the foundation of Carmae back to the eleventh century and the use of alphabetic writing in Etruria and Latium to the ninth century, V. Gardthausen has advanced arguments to prove that the Italic stocks learned their scripts from a Greek and not from a Phoenician source and that both the introduction of the alphabet and the foundation of Comae must have taken place about 750 s.c. K. K. Smith has collected " the quotations from Greek literature (Homer, Euripides, Lucian, Sosiades, etc.) which occur in recently discovered inscriptions.

Attica.—Remarkable progress has been made with the interpretation and historical utilization of Attic inscriptions, and the number of new discoveries, though naturally falling short of the normal level of pre-war years, is by no means inconsiderable. Of Inscriptiones Graccae II et III editio minor (usually denoted by LG, ii. a further fascicule appeared in 1916 containing the decrees later than 229/8 n.c. and the leges sucrae while another to has I understand to been subsequently issued, comprising chronological tables and indices to the instalments already published. P. Graindor has contributed a notable series of articles based wholly or partly upon the syidence of inscriptions containing, in addition to numerous corrections of published texts, thirty-four documents previously unknown One of these articles to contains a discussion, primarily chronological, of the lists of πυλωροί and the monumental staircase of the Acropolia, the pylons and the Benlé Gate; a second " is devoted to the study, artistic and historical, of the cosmetae of the Athens Museum; in a third w 37 inscriptions of the imperial period are published, either for the first time or with improved readings and restorations, including groups of texts relating to Herodes Attions and his family to Hadrian and to a number of Attic archors of the second and third centuries of our era; the fourth 38 includes sixteen new inscriptions, amongst which are a list of archons (No. 7), a base with the name of Claudia Athenais, daughter of Herodes Atticus (12), and an eighteenth example of the execrations of Herodes (13). The remaining Attic inscriptions now first published include the prescript of a decree of 320/19 n.c. moved by the orator Demades?" a fragment of

⁼ Zeite, Num. xxxii. 47 ff.

[&]quot; Keil-Framerstom, Berecht aber vine Raim in Lydien, No. 5.

^{*} Name Jacheb, Kl. Att mxxvii. 369 if.

[&]quot;Classical Weekly, 13th Nov. 1915, p. 41 ff., knows to me only through Ass. Jours. Arch xx. 227 L

Pars i, fam. 2, Berlin (Renner) - 49 M.

[&]quot; Para iv, fuse. I, Berlin (Reinser): 12 M.

³⁴ Sites. Berlin, 1919, 52.

³⁸ B.C.H. arrviti, 272 ff.

[&]quot; Ib. axxix 241 ff.

^{22 16,} sxxviii. 351 ff.

²⁰ Rev. Arch. vi. (1917), 1 ff.

^{** &#}x27;Apx: Avar. 1, 195 ff.

an Attic diance," perhaps that concluded with Perdiceas brother Philip in 433/2 u.c., two further boundary-inscriptions of the Ceramicus a belonging to the fourth century att, a decree of the diagonal of Bendis at Salamis 12 dated according to its editor, following you Schoolfer's list of the Athenian archons) in 276/5 and rendering possible a more satisfactory restoration of a very similar decree of a somewhat later date," two fresh fragments." of a document (I.6: ii. 959) containing lists of naval crews and showing the precise composition of a trireme's crew (except as regards the numbers of valitas and Beparapres) and the distribution of citizens, metics, foreigners and slaves, and nine fragments (four of them previously published, but not brought into conjunction, of a decree granting to Julia Domna, probably between 196 and 198 A.D., the honour of three yearly festivals for the aid she had given to an Athenian embassy at Rome." To these must be added a dedication to Apollo Patroös," a number of epitaphs ranging from the sixth century a.c. to the Christian period and twelve votive inscriptions on bronze objects now in the Arropolis Museum.8 Of the epigraphical results of the excavation of Pericles' Odeum to only one is of interest, a bone theatre-ticket of the Imperial period bearing the legend XIII AICXVAOY IF, doubtless with reference to the revival of some work of the great dramatist. In his Attische Urkunden III. A. Wilhelm publishes new fragments of (a) a document prescribing the oath of the Attic diseases appointed in 164/3 n.c. to settle disputes between Ambracia and Acarmania, (b) a treaty of 111/0 n.c. between Lyttus and Olus in Crete, and (c) the decree of the Dionysiac τεχνίται in honour of Aribazos of Permens; he also restores a fragmentary decree for a Theban fluteplayer and examines the restrictions placed upon the examines granted by a mumber of Attic decrees, some of which he restores or corrects. The study of Attic inscriptions, especially those of the classical period, owes much to the indefittigable labour of W. Bannier, who has devoted special articles to the two famous documents (I.G. i Suppl 27b and ii. 140) regulating the Eleusinian awapyn," to the building-record of the Propylasa, " to the accounts of fifth-century buildings and statues st and to certain fourthcentury tenditiones.34 In a series of seven articles to under the title 'Zu attischen Inschriften the same scholar has thrown light upon a number of Attic texts (too numerous to be specified here in detail) including

" Kite, xv. 193 H.

⁴¹ Ageh. Am xxx. 100 ft.

^{41 &#}x27;Apr. 'Eq. 1915, 1 (E.

^{*} f.G. it. 020 ; ef. Jahreshelle, 1. 130 f.

⁴ Arch. Am. xxx 124 ff.

⁶ Jahred XVI 249 II

^{# &#}x27;Apx. A+Ar. ii. 143.

To. 138 ff. παρερτικο 80 ff. Αρχ. Έφ.
 1916. 1ff. Hall. Merr. Mos. Art. xi. 124,
 Mussum Journal, viji. 10 ff.

⁴⁵ Άρχ. Δελτ. i. παράρτηση 33 f. The inscriptions in 'Αρχ. 'Ερ 1916, 9 ff. are

forgette.

^{* &#}x27;Asy 'Es 1915, 145 ff Rearried, 1814, 81 ff.

[&]quot; Sitch Wien, class, 2

[&]quot; Berl, phil. Work, xxxv, 1230 ff.

^{48:16.} VXXVIII 836 ff.

or Ph. waxv, 542 ff.; xxxvi. 158 ff. ™ Rh. Max. 1xx, 584 ff.; aL 408 ff.

[□] Berl, phil. Wook. xxxv. 1612 ff; xxxvi. 1007 ff; xxxvii. 91 ff., 344 ff., 1216 ff., 1342 ff.; xxxviii. 449 ff.

the Tribute Quota-lists, the Parthenon-record, the accounts of the ποληται, the Phaselite decree and other equally well-known inscriptions, while Attic documents are also prominent among those which are discussed in the first of his two articles entitled Zu griechischen Inschriften. F. von Hiller has suggested a new and attractive restoration of the 'Salaminian Decree,' which is accepted by F. Groh with one modification which von Hiller himself approves. No fewer than four articles deal with the Chalcidian Decree. W. Kolbe's view, that the ξένοι ασοι μή τελούσι 'Αθήναζε are Athenian μέτοικοι who have received ἐσοτέλεια, is sharply criticised by E. von Stern, " who interprets the passage to mean that Chalcidian metics are to pay taxes to Chalcis except those paying taxes to Athens and foreigners to whom Athens has granted arehera. C. F. Lehmann-Haupt, who reviews " the main problems raised by the dieree, has modified in the light of Kolbe's suggestion his own previous view and maintains that the gevor are Athenian metics who received icorelies or άτέλεια as settlers on the confiscated lands of the Chalcidian (πποβόται,a solution which J. H. Lipsius " rejects in favour of that of Meyer and von Stern. Other well-known inscriptions which have received fresh attention from experts include the Samuan Decrees of 405/3 B.C., 42 the Eleusinian tax decree, which is attributed by R. H. Tanner *4 to 443 s.c., the Tribute Quota-lists and the alliance between Athens and Leontini, the epyaorinas-inscription at Petworth House, 40 the treaty concluded in 368/7 between Athens and Dionysius of Syracuse, of the Attic decree on weights and measures "s and the statute of the Association of Iobacchi." The Athenian archon-lists are discussed by Dragoumis " and Roussel !! U. Wilcken re-interprets !! by the literary evidence two Attic documents discussed in Wilhelm's Urkunden des korinthischen Bundes der Hellenen; A. Wilhelm re-edits? an Attic decree now at Leyden. Of a number of minor contributions to Attic epigraphy no individual notice is possible here. 4 The chronology of the Attic archors of the third century n.c. continues to be a subject of acute controversy. A. C. Johnson, who has devoted himself with marked success to such studies, has argued 75 in fayour of the date 265/4 for the archonship of Lysitheides (attributed by von Schoeffer to ca. 249/8 and of 266/5 for that of Philocrates. In opposition to A. Mayer's claim " that Pap. Hercul. 339 settles the date of Enthins

[#] Rh. Man. lan. 389 ff.

¹² Herman, H. 303 ff.

[&]quot; By 478 t.

^{# 18, 479} f.

^{**} Ib. 630 ff.

[&]quot; Ib. in. 320 ff.

¹⁴ Jb. liii. 107 ff.

¹⁴ Rec. Phil. xl. 190 ff.

[#] Class. Phil. xi. 65 ff.

⁴¹ King av. 188 ff.

[#] B.S.A. xxi 155.ff. " 'Anx 'Eq. 1915, 125 ft.

^{**} Hermes, 11, 120 ff.

^{*} A Elter in Ostergrass des rhein Friedr. With. Universität zu Bonn an shru Angehörigen im Felde, 1910, 87 ff.

^{59 &#}x27;Apx- 'Eq. 1915, 5 ff.

[&]quot; Hev Et. Gr. xxix. 166 ff.

¹¹ Sittle, Minches, 1917, 10, 25 ff.

[&]quot; Sitzb. Wien, clxxix, 6, 21 ff.

[&]quot; J.H.S. XXXXI. 65 ff.; Murmoryne, Xliv. 295 Work M. Phillid 1916, 807 ff.; Apx. Es. 1915, 137 L.; Listy filel. xIII. 219 ff.

[&]quot; Class Phil. xin. 200 t.

is Ib. x. 457 H.

[&]quot; Philologus, 1xxi. 226 ff.

in accord with Ferguson and Kirchner, W. Kolbe has tried to show? that historically the date in question (287/6) is untenable and that in reality the papyrus confirms the later date (284/3) championed by Dittenberger, Koehler and himself: J. Kirchner answers these arguments and maintains the correctness of the earlier date.78 Of the remaining works dealing wholly or partly with epigraphical materials Ferguson's short article on the secretary-cycle.89 H. Oellacher's dissertation on the chronology of the Old Attic Comedy 31 A. C. Johnson's examination of the financial administration of Athens from 307 n.c. down to the early part of the second century, and G. Giannelli's essay on the Romans at Elensis 83 are all of considerable interest and value. We may also note C. Robert's suggestions 34 that the sculptor Pollias, whose signature occurs on two bases found amid the debris of the Persian invasion, is the Pollis mentioned by Vitravius and Pliny and is the father of the vase-painter Euthymides, and O. Lagercrantz's examination 45 of the phrase xuipe xul wies on Attic black-figured cups. Of W. Ludemann's dissertation on some orthographical and grammatical questions raised by Attic inscriptions I cannot speak from personal knowledge 88

Peloponness. P. Wolters' restoration so of a votive inscription on a number of vase fragments from the Aphaea Temple in Argina and W. Bannier's comments ** on a well-known Aeginetan text call only for passing notice. On the other hand, important new finds from Argos have been published by W. Vollgraff. These include nine stones of the third century B.C. containing twelve decrees see in honour of foreigners, which give us our first complete examples of such decrees of this period, and thus enable us to rectify a number of texts hitherto imperfectly, or incorrectly, restored, as well as a decree passed before 251 n.c. in honour of Alexander of Sievon, and another, probably of about 249-244 n.c., honouring the Rhodian state, which had on a previous occasion lent the Argives 100 talents free of interest for the repair of their walls and the completion of their cavalry force we owe to the editor a valuable discussion of the formulae of Argive decrees, of the Argive calendar, and of the subdivisions of the people and territory, together with a fresh examination of the famous arbitral verdiet delivered by Argos in a dispute between Melos and Cimolus (I.G. xu. 3, 1259). W. Bannier suggests of that the Αξσχύλλος Θίοπος of an Argive dedication (I.G. iv. 561) may be the same as Astylus of Croton, known to us from Plate and other authors. In his discussion of Wilhelm's Urbunden des

^{10 16} lexiv. 58 ff.

⁷º Sitch, Berfin, 1918, 142 ff.

⁴⁸ A760, xiv, 383 ff.

[&]quot; Wiener Studies, xxxviii, 81 ff.

[&]quot; Am. Journ. Phil, xxxvi. 424 ff.

^{*} Att. Acced. Torino, I. 219 ff., 360 ff.

[#] Jahrh. xxx 241 f.

[#] Eranos, x11, 171 (f.

es for titules attivis questrours orthograph-

icae et grammaticas, Kirchhain, 1915. Revisual by E. Schwyzer, Bert. phil. Wook. XXXVI. 1370 (

^{# 11}h. Mas. ixxi, 282 ff.

^{*} Heel, phil. Work xxxviii. 981f.

^{**} Muemovyne, xliii, 365 ff_

¹⁶ Th. xliv. 219 ff.

m 16 46 ff.

Berl. phil. Work, revii. 1443 L.

korinthischen Bundes, U. Wilcken re-examines andocument from Epidaurus (I.G. iv. 924), which, he thinks may relate to Alexander rather than to Philip of Macedon, and may be dated in 336 a.c.: the text probably refers to the συνθήκαι of Alexander and the Greeks rather than to the decision to declare war upon Persia. O. Weinreich, returning " to the vexed question of the meaning of AKOAI in Epidaurian and other texts, decides in favour of the concrete ears." The French excavations at Orchomenus in ABCADIA have brought to light in addition to minor fragments, a statue-base of King Arens of Sparta, a series of proxeny-decrees a engraved on bronze tablets. one of them honouring three Athenian envoys sent to the Pelopounese about 266 n.c. to prepare a coalition against Antigonus Gonatas, a valuable document, edited with an ample historical and linguistic commentary, delimiting the frontier between Orchomenus and Methydrium in 369 a.c., when Methydrium passed over to το Μεγαλοπολιτικόν, and the upper part 10 of the famous stelle (E.G. v. 2, 343) recording the συνοικία (dating probably from 360-350 B.C.) of Eugemnians and Orchomenians, and indicating an attempt on the part of the latter to discover some compensation for the transference of Methydrium, Thisoa and Teuthis to Megalopolis. 100 No new documents have been found at Tegea, but we owe to L. Weber a full discussion in of a Tegean epigram relating to the battle of Mantinea (v. 2.173), to A. H. Smith a fresh publication 10t of the relief of Idrieus and Ada (v. 2.89), to E. Hermann an examination 100 of several Arcadian dialect forms, and to D. Comparetti a splendidly illustrated and most suggestive re-interpretation of the Xathias-inscriptions (v. 2 159), or A long article 100 by L. Weniger on the prophets at OLYMPIA begins with an examination of the Olympian official lists which survive for many years between 36 B.C. and 265 a.D., though the remainder of the article is based mainly upon literary evidence. LACONIA is represented only by O. Fiebiger's discussion " of the metrical epitaph (v. I. 1188) of Epaphrys, who, he thinks fell fighting on the Roman fleet which assisted the Athenians to drive out the Herulian invaders in 267 A.D. 107 On the western shore of the Gulf of MESSENIA, between Corone (Petalidi) and Asine (Coron), the site of the sanctuary of Apollo Corynthus has been excavated, disclosing the remains of five temples. The inscriptions 108 found here include a dedication to Apollo Corynthus, confirming the epithetwhich had been called in question, an archaic votive, some fragments of the late Roman period, and five archaic inscriptions on bronze or earthenware. one of which consists of the legend Medav[101] avede[v] Adavat [en] Xalcos written retrograde on a bronze spear-head. In a masterly article of 120

^{*} Sitth München, 1917, 10, 37 H.

¹⁴ Hermes, ii. 924 ff.

W. Heat, Phil. Work, annvill, 9821.

[&]quot; B.C.H. xxxviii, 447 ff.

¹⁷ Jb. 449 ff.

[#] IA REEL ESS.

⁼ II. 98 ff

in Cl. Judopeya, Foreth. xxxv. 90 ff.; xxxvi. 237 ff.

¹⁰⁰ Hermits. III. 545 ff.

^{...} J.H.S. xxxvi. 65 ff.

¹⁰⁰ Indogera, Forach, axxv. 164 H.

¹⁰⁴ Авишисто, П. 247 ff. Cf. 'Apz. Δελτ.

¹⁰⁰ Arch. Rel. sviii. 53 ff.

¹⁰⁰ Naue Jahre, Kl. All. xxxxii. 295 ff.

is See also Apx. deAr. ii Trapiprana 73.

^{210 -} Арх. Дейт. П. 113 П.

pages, ¹⁰⁰ A. Wilhelm discusses two documents of the late second century n.c. from the συνέδριον of Messens,—the decrees in honour of the Secretary of State, Aristocles (I.G. v. 1.1432), and the accounts of the ἀκτάβολος εἰσφορα (1433), or tax of eight obols per mina (420 obols) necessitated by Roman demands—as well as two financial texts (1434, 1532) of the same period. The commentary, which deals with every point of epigraphical, numismatic and historical interest suggested by the valuable texts under discussion, splendidly exemplifies the extraordinary acumen—and learning of their editor. ¹¹⁰

Central and Northern Greece .- P. Grainder has published in thirty epitaphs on thin rectangular tablets, all of which probably come from MEGARA, though the provenance of some is unrecorded or is attributed to Attica, and three fragments of a Megarian decree granting woofena to a Megalopolitan, perhaps the commandant of the garrison of Nisaca in the service of Antigonus Conatas. The yield of BOROTIA is remarkably small. In a long article 112 on the Charopeum of Coronea, N. G. Pappadakis 'publishes thirteen manumissory dedications to Huracles-Charops, inscribed on two stelae of about 200 s.c., a further manumission and a fragmentary dedication from the same sanctuary. 111 and two manumissions of Thisbe-114 From Orchomenus A. Williehn publishes 116 two new texts of the second century n.c., the one a list, probably military, of 42 Orchonenians, the other containing two dedications of freedmen to Sampis and Isis as well as a faller reading of a previously known text (LG, vii. 3198, 3199). The only other new discoveries are a herm from Thespiae 145 bearing an epigram of the third century B.C., and a leaden ticket of admission 117 to the Oropian Amphiaraium. Wilhelm has discussed its a decree (vii. 395) from the same sanctuary in honour of Mussalees of Sievon, in whom he sees the poet of that name, and a passage in a well-known document (vii. 235) of the same provenance, discussion to has centered round a metrical epitaph of Thespiae, while S. Louria has examined in the status of the tenants of the Thespian public pastures who appear in a well-known inscription. HI PHOCIS is represented by a single manumission record from Hyampolis.122 From Eastern Locats, W. A. Oldfather has published im nineteen new texts, mostly short epitaphs, together with notes on ten Locrian inscriptions previously known. H. Goldman has given us five inscriptions 124 from the acropolis of Halae, including a sixth century votive epigram, an early fifth century dedication of a statue to Athena, and an interesting list of officials (est. 260-250 B.c.).

¹⁰⁰ Jahresh zvii. I II.

ris See also 'Aρχ. Δέλτ. ii. ταιδετημά 73 ff

¹¹¹ Ben Arch vi. (1917), 31 ff.

III 'Arx. 484т. II. 217 ff.

¹¹⁸ Jb. 268 ff.

MA JA 262 L

¹⁰ Sitch. Wies, clause 6, 8 ff.

¹⁰ deck. Am. xxx. 208. A Thespian manumission is republished 'Apx. zeke, ii. 2001.

⁴¹⁷ Apx. Ep. 1916, 110 f.

no Sittle Wien, claver, 6, 3 ff.

¹⁴⁰ Bert, julil Work, revol. 1443; revviii. 1671, 9791.

¹⁰⁰ Rec Et. Or xxviii. 51 ff.

¹⁴¹ Colin, R. C. H. axi, 553 ff.

т 'Арх. Делт. П. 263 П.

¹¹² Am. John. Arch 21x. 320 H.

¹³t Ib. 438 ff. Cl. Class Phil. vi. 211 ff.

which contains the first epigraphical evidence for Halae as a member of the Bocotian League. Bannier has commented its upon two famous archaicinscriptions found at Ocanthes (I.G. ix. 1, 333, 334), and now preserved in the British Museum, 16 and B. Keil has discussed 127 a difficult phrase in one of them, the colonial charter of Naupactus. The compact relating to the Locrian maidens, discovered at Tolophon and published in 1913 by A Wilhelm, has been re-examined 128 by W. Leaf, who points out that the inscription removes the thousand years' curse which had rested on the Acantii ever since the fall of Troy and cancels the annual dispatch of two maidens to servitude in Troy. It lays down the conditions upon which the outlawry of the Aeantii and Naryca is rescinded and they are received into the Locrian community. An archaic epitaph has been discovered 226 at Viachomandra by K. A. Romaics. An interesting series of eighteen texts from Thermum in AEronia has been edited 131 by G. Sotiriadis. Most of them consist of one or more records of the grant of montesia or molifical by the Actolian League during the third and early second centuries n.c.; there are also four statue-bases, one of which bears the signature of Lysippus, and two boundary stones inscribed 'Απόλλωνος Αυσείου and 'Αλίου Νίκαν 'Aσκλαπιού A. Plassart 111 and K. A. Romaios 111 have published historical notes on several of these texts, and H. Pomtow has dealt 124 with the Lysippus signature, proving that it has no connexion with the dedication (of about 250) B.C.) which stands above it on the stone, and thus meeting the difficulty raised by Sotiriadis, who questioned the possibility of identifying the Lysippus of this signature with the great sculptor of that name. Among the recent discoveries from the west (Thyrceum, Palaerus, Anactorium, Ambracia, etc.), described 128 by K. A. Romaios, are a votive epigram to Pan and Pruspus, an interesting abacus, a list of members of a religious society, and some forty epitaphs. A. Philadelphens' exervations at Nicopolis 186 have disclosed a very early Christian basilica; the most interesting epigraphical find is a mossic epigram. 157 D. Comparette has discussed 158 a record of a gift to Dione found. at Dodona and Salonius, in a work inaccessible to me, has examined in the origin and language of the inscribed tablets discovered on the same site. O Kern has corrected 116 a misreading of a text from Arta, published in C.I.G. 1798 In the Ionian Islands no fresh discoveries have been made, but

^{##} Rh. Mus. lxx, 400 ff.

³⁴ Auc. Grant Inser, B.M. Non, 953, 954.

ist Indogern. Parich Exxvt. 230 ff.

Fancesk xiv. 162 ff. Cf. Klie, xiii. 3141 (Lehmann Haupt); Solvetes, i. (1913), 188 ff., 235 ff. (Corseni); Rev. Hist. Ret. Iaix. 12 ff. (A. Reinach).

¹⁰ B.S.A. xxx. 148 ff.

ин Арх Arks II. танаятцая, 16.

m 16. L 45 ff.

¹²² B.C.H. SARIN, 127 H.

III "APX. MAAY. L 280 IC

III Jahch. xxxii 133 ff.

[&]quot;Arx. Aix" II. vaniorana, 47 ff.

¹⁰⁰ Tharriso, 1915, 68 ff.

[&]quot; 'Apr. 'Ep. 1916, 33 ff., 65 ff.; Jock, Am.

¹⁸⁸ Aumourio, H. 259 ff.

¹⁰⁰ Paren de origine et sermone tabularum Dodonie efficierum, Habilingfore, 1915. Reviewed Berl. phil. Work, exxvii. 892 f. (O. Hoffmann).

²¹⁰ Hermer, Ht. 146 f. Cl. 'Apx, 'Ep. 1015, 33.

Kern, 141, Comparetti, 141 and Bannier 148 have re-examined and corrected

previously known Corcymean inscriptions.

The most important opigraphical contributions, however, are those of DELPHI and Thessaly. The new Delphian texts include, amongst others, 144 an important fragment of the letter of Spurius Postumius Albims, practor in 189 n.c., accompanying the Senatusconsultum passed in favour of Delphi,143 and a document 140 recording the grant of honours to the first Attalids, which brings a welcome confirmation of Cardinali's stemma of the Attalid house. H. Pomtow has continued his publication of Delphische Neufunde' in two articles, the first of which 147 contains 69 texts, the great majority not previously published, including the oldest extant Delphian list of Beapoboxos (No. 33), a dessier relating to a frontier dispute between Eretria Chalcis and Carystus (39, 40), decrees in honour of a Cretan organist a Theban χοροψάλτρια and a Roman astrologer (51, 52, 61), a mutilated poem recording an Apolline miracle (65), a Samian thank-offering (ca. 500/490 a.c.) for freedom from the Persian yoke (87). and a monument of Hermesianax of Trailes and his three daughters. who won victories in running, chariot-racing and singing at the Pythia and other festivals during the early years of Claudius' reign (101). The other article,148 in which six new texts are published, deals with the relations of Delphi with Hippocrates and the Asclepiadae and includes a critical examination of the Hippocratic mpec Secritics and of its value for the history of the First Sacred War. 140 To B. Haussoullier is due a masterly edition 150 of the extant fragments of a treaty concluded between Delphi and Pellana (Pellene in Achaea) in the first half of the third century a.c., which affords interesting details regarding the settlement of inter-state disputes; a chapter is added discussing the situation, monuments, products and political institutions of Pellana and its relations to Delphi. In an essay 151 on the inscriptions of Cheobis and Biton, C. Robert supports the reading δυγδι (= ζυγῶι) against δυιοί or δ'υίο! and argues that Gleobis. and Biton were Delphians who introduced a new cult and that the 'mother' brought τῶι ζυγῶι was a Mother-goddess, perhaps Leto or Demeter. On several other Delphian texts fresh and valuable light has been thrown by E. Bourguet, 123 M Holleaux 153 and other scholars, 154 G. Klaffenbach, while accepting Holleaux's interpretation is of the title expanyos & αθύπατος, differs from him regarding the date of Sisenna's government

¹⁰ Hermes, III 1471.

¹⁴ Annuario. II. 282 ff.

in Borf. phil. Work xxxvii. 1440 ff.

¹⁴ Mes. Et. And 12, 20 ff.

¹⁴ Rev. Arch. vl. (1917), 342 ff.

on Rev. Lt. Auc. xx. Wiff.

¹⁰⁷ Kilo, av. 1 ff.

^{17 303} E

III 75. 316 ff.

the Truite enter Delphes of Polleton, Paris

⁽Champion), 1917.

¹² Simb. Munchen, 1916, 2. 3 ft.

^{:=} Rev. Arch. vi. (1947); 389 ff.

¹⁹ Hav. Et. Aug. veil 237 ff.; xix. 17 ff., 92年。157年

¹⁵⁴ Klin, siv. 468 R; Hermes, lii, 149 R.; III. HOff.; RA. Mus. lex. 395-L.; Atti Accord. Torono, alix, 680 ff.

¹⁰⁰ Herman, alim, 581 W.; Rev. Et. Auc. 312.

of Macedonia. 13. A. C. Johnson has put forward a solution of some problems of Delphian chronology in during the Actolian domination based upon the Amphictyonic decrees: a careful study of these in the light of the internal position of Athens, Eretria and Sieyon enables the writer to fix the beginning and the duration of the Chremonidean War and to draw up a revised list of Delphian archons, councillors and hieromnemons for the years 302-240 s.c. M. Bloch's dissertation 158 on the conditions of manualismon contained in the Delphian records and A. Boethins' study of the Pythais in are both inaccessible to me Seventy-one new texts from Thessally have been edited by A. S. Arvanitopoullos and N. Giannopoulos. Sixteen of these, for the most part very fragmentary, are from Gonni. 100 fourteen votive, manumissory and funerary inscriptions are from Gonnocondylum-Olympias 100 and eighteen from Oloisson, Phalanna and Metropolis, 102 The remainder were discovered at Demetrias,163 Nea Anchialos,164 Phthiotic Thebes, 166 Halus, Pyrasus, Pharsalus and absowhere, 108 Numerous documents previously known have been more fully and correctly deciphered or restored and more adequately explained 107; special interest attaches to P. Boesch's two articles 100 in which the theorodokos-inscription of Gonni, which confirms the contention of Foucart and Rutgers van der Loeff that the Executiva and the Muaripua are not identical, is examined and several cognate questions and texts are discussed. Giannopoulos has collected a large number of objects bearing signs which he attributes to a prehellenic Thessalian script. 108 Arvanitopoullos has drawn up an alphabetical list of the rapids of Olobsson 170 and a table of concordance 171 between the numbers given to inscriptions in the Gomii Museum and those under which they have been published in the 'Aρχ. 'Eφ. Two questions of the Thessalian dialect have been examined by E. Hermann 177

Islands of the Aegean.-The year 1915 saw the publication of the long expected fascicule "I of the Inscriptiones Grascae devoted to EUBOEA. This is edited by E. Ziebarth and fully maintains the best traditions of the monumental work of which it forms a part. It comprises 1279 texts, of which apparently all but 310 had been previously published, and though the number of historically important documents is small, it affords abundant

Herman, li. 475 ff.

III Am Joseph, Phil xxxix, 145 ff.

¹⁴ Die Freifannungsbedingungen der delph. Prestamunguian briften, Strussburg, 1915.

an this Pythoir, Upvalu (Almquist and Wiksell), 1018. Reviewed Class. Kem xxxiii. 113f. (G. C. Richards). Cf. Apx. 'Ep. 1915, 5if.

^{160 &#}x27;Asx. 'Ep. 1915, 8 ff.

¹⁼ Ib. 16 ff.

im 15. 1916, 17 ff., 73 ff.

III ffpunting 1915, 188.

IM "Арх. Тер. 1910, 89 ff.

^{111 76 75 82}

¹¹⁰ Th. 74 ff.: 1016, 61 f.

[&]quot; Asx To 1915, 78; 1916, 17 ff., 73 ff.; Class Rev usin 1964.; Pal, Expl. Fund Q.S. 1915, 203 ff.; Berl, juhil. Work, axxvii. 1443 ff.; EXXVIII. 189

¹⁰⁰ Herman, iii 136 ff. 828 ; Bore, phil. Work, xxxvii, 155 ff.

Apx. Ep. 1915, 07 ft. 170 /6, 1916, 91 L.

^{# 16, 1915, 28} ff.

^{11.} Imtogerm. For ch. xxxv. 166

re Sii, S. Berlin (Reinser); 41 M. Re-viewed by W. Bannier, Beel, phil. Work. \$33vi. 1995 H.

material for the study not only of the Eubocan alphabet and dialect but also of the Greek personal and local names. Valuable additions have been made to Eubocan epigraphy by the publication ¹⁷⁴ of the inscriptions discovered by N. Papadakis during his excavation of the Eretrian Issum,—notably a number of dedications to Isis, alone or in conjunction with other Egyptian gods, an inscription set up in honour of a hereditary priest by τὸ κοινὸν τῶν μελανηφόρων καὶ ὑποστόλων, a subscription-list, two third-century catalogues of ἔψηβοι and a list of 49 men and 43 women who officiated as ναύαρχοι in connexion with the worship of Isis. An Eretrian epigram (I.G. xii, 9, 287) has been discussed by S. Witkowski, ¹⁷⁵ B. A. Muller ¹⁷⁶ and W. Bannier ¹⁷⁷ and a list of Eretrian demes, containing 54 certain and nine doubtful names, has been drawn up and annotated ¹⁷⁸ by A. S. Georgiadia

Of the islands in the Northern Aegem Thasos alone is represented.

G. P. Oikonomos refers 179 to several Thasian finds of which a fuller publication will doubtless follow and P. Roussel arrives independently 250 at the conclusion previously reached by A. Reinach, 151 that the inscriptions interpreted as referring to female painters in Thasos have been missenderstood and in reality indicate only that the ladies gave orders for,

and defrayed the cost of the paintings.

From the Cyclams we may note P Graindor's publication ¹⁸² of a law regulating admission (rôμος ἐσαγωγῆς) into a Tenian association, parhaps Dionysiae in character, dating probably from the early fourth century a.c., his rejection ¹⁸⁴ of Wilhelm's emendations of a Tenian magistrates list previously published by htm. ¹⁸⁴ A. Korte's fresh discussion ¹⁸⁴ of a Cean victor-list (I.G. xii 5, 608) of about 400 a.c. which is of considerable importance for the chronology of Bacchylides and F. Hiller von Gaertringen's proposal ¹⁸⁶ for the restoration of an interesting religious tabos from Paros (xii 5, 225).

The inscriptions of Datos have afforded to P. Roussel his principal material for two important books. One of these ¹⁵ which deals with the Egyptian calls in Delos from the third to the first century n.c., I have been mable to examine. The other ¹⁵ devoted to the history of Delos from 160 n.c. when the Athenians acquired the island, to their abandonment of a possession which after the disasters of 88 and 69 h.c. ceased to be profitable, is very full and interesting. After an introduction, which includes (p. 21 ff.) a general account of the epigraphical sources, the author treats of the

²¹³ Aρχ. Δελε i. 115, 125, 141, 148 π. Cl. Brot. phil. Woch. xxxv. 385 ff. (Ziebarth).

Weel phil. Woch axxvii. 1280f.

¹⁰⁰ Jb. DIII L.

or 16, xxxvi 1927 f.; xxxviii 1442 f.

¹⁷⁰ Apx. 'Eq. 1115, 49.11.

THE PARK GRAY, IL SERVICES, 11 %.

me Ren. Et. Gr. xxix 181 ff.

W Rose Sp. 11 251 %.

¹⁰⁰ Beer at real, vil. (1917), 54 ff.

in B.C.H. szzviii 444 ff.

¹³⁴ Mana Belge, 87, 253 IL

[&]quot; Meronea, liti, 113 ff.

¹⁰ Bert, phil Work xxxvi 7961.

¹⁰⁰ Les cultes égyptiens à Débu de III un les mods no. J.C., Paris (Borger Levrault), 1916. Reviewed by H. I. Ball, Journ. Sp. Arch. v. 1431.

²⁴ Delias Colonie Atheniums, Paris (Fontemoing), 1916,

provenance and organization of the Delian population, the Athenian administration, the cults and prosthoods, the buildings and monuments of the period, the entastrophes of 88 and 69, and the decay of Deles. peculiar value are the three appendices, of which the first discusses the chronology of the Attic archons of the second and first centuries, the second summarizes the chief administrative documents of the period, and the third contains 63 new texts -- an Attic decree and 62 votive inscriptions from the Syrian sanctuary, the temple of the Meyakor Geof and other sites. A. Plassurt has republished be his article on the synagogue at Delos, which appeared in the Mélauges Holleaux; A. E. R. Boak has examined, 100 at some length, the status and functions of the magistri of Campania and Delos, maintaining that the Delian 'masters' were not presidents of religious associations but magistri fani, annual officials appointed by the colony to supervise the shrines and calts of certain divinities, and M. Lacroix has reconstituted by the stemma of an important Delian family of bankers and timber merchants, together with those of six other closely allied families. On enigraphical grounds, F. Courby attributes 100 the dedication of Antigonus' portico at Delos to 254 or 252 g.c. E. Ziebarth gives some account im of twenty-four Delian trust-funds (B. Laum, in his recent work Stiftungen in the griechischen and romischen Antike discusses only four), the special interest of which lies in the fact that their operation can be traced over a long period, amounting in one case to at least 130 years. G. Glotz in an interesting article 100 shows how the price of pitch, recorded for various years between 310 and 169 n.c., accurately reflects the fluctuations of Delos' political relations with Macedon, which enjoyed a monopoly of pitch production, and how the famine price of 40 drachmae paid in 279 actually fixes the disputed chronology of the Delian archous of the period of the island's independence. On several Delian documents M. Holleaux has thrown fresh and valuable light, on the dedication no of a statue of the orator M. Antonius consul in 90 a.c., who is termed στρατογός θπατος, probably the latest extant epigraphic example of this title, on the honours paid by Prostaenna, in Preidia, to the same man, he who went to Asia as quaestor in 113 n.c., on the decree of the Cretan auxiliaries of Ptolemy Philometer in honour of "Aylagos Georgéons, known also from coins and inscriptions of Cos and Calvmna, and on the closely related question of the date of the Kontracov working, mentioned in a decres of Halasarna (Cos), and in a dedication of Nusyros L.G. xii. 3, 103 1200 In his Neue Beiträge zur griechischen Inschriftenkunde IV. A. Wilhelm calls attention 100 to a Delian decree at Leyden which has been omitted from I.G. xi. 4, and discusses 100 the regulation for the sale of charcoal and wood. maintaining against the French editors that nothing has been lost at the

ne Bee. Hild. al. 523 ff. Cr. Pat. Erpt.

Fund Q.S. 1915, 201 ff.

²⁸ Noon Phil. st 23 ff.

III Ros. Rt. Gr. xxix. 188 ff.

⁼ B.C.H. xxxviii. 206 ff.

³ Hormes, III 425 0.

¹⁰⁰ Ees. Et. Gr. xix. 281 ff.

¹⁰⁰ Her. Et. die. 202 83 ff.

¹⁰⁰ D. 91 f. Cl. 95 ff.

[&]quot; Ree Et. Gr. 200. 88 ff.

²⁰⁰ Sifth Ween, ofgain, 6, 20 ff.

^{##} It 93 ff.

beginning of the extant text. R. Vallois republishes. with a full commentary, a curse-inscription of about 250 s.c. (I.G. xi. 1296), and in an interesting essay, modifying and supplementing Ziebarth's article on the subject. examines the literary and epigraphical evidence for the Greek åpå.

Hiller von Gaertringen has pointed out ³⁰⁸ that the term everyéras in an inscription of Thera (I.G. xii. 3, 465) may refer to the Romans and not, as hitherto understood, to Ptolemy III and Berenice. The new inscriptions from Crete are few in number and slight in interest, with the exception of a dedication from Gortyn ³⁰³ and a dialect building-record (second century i.c.) from Lato πρός Καμάρα.³⁰⁴ Several inscriptions have been corrected or interpreted.³⁰⁵ the Orphic poems from Eleutherna have been re-edited.³⁰⁶ by Λ. Olivieri, and the clauses of the Code of Gortyn dealing with rape and adultery have been discussed.³⁰⁷ by L. Gernet. Of epigraphical materials for the study of the Cretan dialect, E. Fraenkel's contribution to the S.G.D.I. has already been noticed, and only E. Hermann's notes.³⁰⁸ on psilosis in Central Crete still-call for mention.³⁰⁹

K. Konrouniotis excavations and researches in CHIOS have produced.²¹⁰ together with other interesting results, not only valuable corrections of and additions to inscriptions previously published, but also eight new texts from Phanae and Cardamyle, and an interesting decree and contribution-list of the early third century (1) from the fort of Chios. Thanks largely to the activities of Italian archaeologists, the number of new inscriptions from RHopes is A. Maiuri has published III a Greco-Phoenician votive and 187 other Greek texts (only nine of which were previously known), found in the Sporades and now preserved in the Archaeological Museum at Rhodes; 212 the great majority of these (Nos. 27-187) are short epitaphs (No. 27 dates from the first half of the fifth century B.C.), and the remainder are mostly votive or honorary inscriptions, including a long list of distinctions granted to some unknown person in the third century R.C. interesting for the names of religious and gentilic associations which it contains (No. 10) building-inscription and 22 epitaphs have been published " by G. G. Porro and 17 funerary and other texts by M. D. Chaviaras. Rhodian stamped amphora-handles have recently attracted a good deal of attention, and the valuable work of Nilsson and Bleckmann has put their study upon a firm busis. G. G. Porro has edited \$15 602 such stamps found at Kalavarda in the territory of Camirus, of which four belong to Thasos, four to Olbia, two to Cmdns, and thirteen bear simple sigla, while the remaining 579 are certainly

^{**} B.C.H. xxxviii. 250 ff.

tm Hermes, xxx. 57 fl...

²⁰⁰ Herrite, 31. 476 f.

⁴⁰⁰ Annuario, II. 311 L

эт Арх. "Еф. 1915, 51 f.; Annuario, п., ЖИЙ. ГАРХ. АВАТ. IL 1 И.

ява "Арх. 'Еф. 1915, 32, 94 ; Нестос», III. 475.

⁼ Lansellue survens Orphicus, Bom (Marens und Weber).

¹⁰⁷ Rev. Et. Gr. xxix, 383 ff.

⁼⁺ Indogerm Forsch xxxv. 107 ff.

For Gortyn of Atme | Roma, xviii.

^{#* &#}x27;Apx. Avxv. 1. 76, 84, 91ff.; H: 213 ff.

⁼¹ Annuario, ii 267 ft.

⁼⁼ Jb. 133 ff.

^{== 76, 125} ff.

^{**}Apx *E0. 1915, 128 ff. No. 1 = Ammorro. ii. 136. No. 2.

[&]quot;14 Aumorus, it. 103 ff.

Rhodian J. Paris has published no a collection of 262 similar stamps found in, or near, the capital, and now in the possession of the Scolasticat des Frères des Écoles Chrétiennes, at Rhodes. The publication of the Petrograd collection has already been referred to B. Keil has examined, no from the stylistic point of view, Timachidas narrative of the exchancea of Athema Lindia contained in the famous Landian temple chronicle, and concludes that the laws of style formulated for the konej had by about 100 n.c. been applied to the Dorian konej, as written at Rhodes, and that it is possible to infer the character of the instruction given by the famous teacher of style and thetoric, Apollonius à μαλακός. F. B. Tarbell calls in question 21st the interpretation and the provenance of a vase-inscription purporting to come from Rhodes Of the neighbouring Sconades, Syme, Cos., Patmos, Levinthos, and Leipsin have produced twelve inscriptions, edited by N. D. Chaviaras, not Teles a dedication to Hadrian.

Asia Minor—In a long and valuable article in on The Utilisation of Old Epigraphia Copies. W. M. Ramsay has emphasized the importance, and defined the methods of restudying copies of inscriptions made by the older travellers, such as Lucas and Hamilton: twenty-eight previously published texts from Konia, Ladik, and elsewhere are discussed and corrected, and a boundary stone (hos symmetries) of about 400 a.p. is published for the first time. D. Emrys Evans notes on the community in the Greek of Asia Minor in draw their material largely from epigraphical sources. Of the sculptured monuments of the Marap cult from Asia Minor, described and discussed in by J. Keil, five bear brief dedicatory inscriptions, of which two were not previously published.

In his Studies in Hellenistic History M. Holleans has shown in that the alleged conflict between the Lampsacenes and the Galatians in 197/6 g.c. is due to an untenable restoration of a famous decree of Lampsacenes (S.I.G.) and that 22 the foundation of the Nicephoria is proved by Polybius and by Pergamene inscriptions to belong to the period 226-3 g.c.

The inscriptions discovered in the Delphinium at Milletus continue to attract attention and study. especially that relating to the Milesian publication who, according to W. Vollgraff constitute a society, or corporation, so wide as to include practically all Milesian citizens. Valuable work has been done by J. Keil on the inscriptions of Entrisus. Three wall-blocks of the Artennaum, inscribed with twenty-eight more or less complete decrees

²¹⁸ B.C. H. 121911. 300 ff.

¹¹³ Horana, IL 195 E.

no these Phil res 1904.

^{= (}Arx Ep. 1915, 131-E

[⇒] Assource, if 131. For Cos and Nonyros see also Rev. Rev Ge. 833, 88 ff.

²² J.H.S. EXSUIT 124 E. Cl. Class Rev. exx. 7 L.

⁼ J.H.S. xxxviii. 135 ff.

⁼ Chi- Quine sit 162 ft

⁼ Julywah, sviii. 66 ff.

THE .- VOL XXXIX.

Ber, Ar. Aug. xvin, 1.ff.

[₩] JA 170 f.

⁼ Juhrech avii Beildats, 257 ff.; Rev. Et. Gr. 2222, 185 ff.; Atts. Accord. Torino, alix. 1220 ff.

in Beel phil. Work axasiii, 977 ff.; Bramer,

F. Margor, Inscriptio Miliesiness de pres cam Margor, Inscriptio Miliesiness de pres cam Margoritan facta, Augeburg, 1914.

granting citizenship and woofevia, afford us our earliest extant examples of Ephesian decrees (before 321 n.c.) and of the Ephesian comp still marked by spondic Ionic forms 200 A new list 201 of the Ephesian xi laaries gives us thirty-one names distributed among six tribes; an article 222 dealing with the exessiations of 1913 contains two interesting honorary inscriptions, four fragments of a votive text to Ephesian Artemis and the Augusti, and the dedication by the Ephesian δημος of ή άφετηρία και τα πέντε άγάλματα σύν τοῖς βωμοῖς, and the inscription = on an altar of the third century of our era contains the title Americ applied to Aphrodite, known hitherto only from the Etymologicum Magnum. We must also notice E. Weiss's full discussion 214 of the juristic aspect of the important document engraved on the Register Office, arraypadicion, at Ephesus, proording the fees parable for various official registrations, etc., P. Foucart's identification 36 of the hero Heropythus, whose cult is attested by an Ephesian inscription, with the democratic leader, who, after the battle of Chaeronea and the advent of Parmenio in Asia Minor, proclaimed the freedom of Ephesus, and M. Holleaux's discussion " of the decree of Ephesus relating to the Prientan defenders of a Xuouz. To the new edition of the long inscription of Carus Vibins Salutaris reference has already been made. The remaining cities of Ioxia are not so largely represented. P. Roussel has commented es on the phrase of Popuagor in epitaphs of Teos and Erythme: A. Wilhelm has adduced arguments in favour of the Clazomenian origin of an interesting historical text usually assigned to Erythine (Hicks and Hill, No. 159), and has interpreted 200 an inscription of Magnesia on the Macander defining the conditions on which a public weighing apparatus in the market-place was leased to a contractor; J. Keil has published 31 an inscribed sepulchral relief of the first half of the first century n.c. from the same site ; T. Macridy and C. Picard in an account 522 of the excavation of the temple of Clarian Apollo at Colophon, publish a third-century decree referring to Colophon ή έπ1 θαλάσσης, and add notes on the 125 texts discovered in the temple precincts.

Under the title 'Lydian Records' W. H. Buckler has edited 'stage of inscriptions from various sites in Lydia (Philadelphia, Mermere, Thyatira Hierocaesarea etc.), of which only five were previously published, and those incorrectly or incompletely; some of these, as for example the opitaph of Praylins (No. 8), are of considerable interest. The same scholar has republished the with restorations and a full communitary five Lydian propitiatory texts and has added a sixth previously unknown, and F. Cumont has discussed 'stage a somewhat similar dedication to Analtis from

Jahrech, xvi. 231 ft.

^{= 15 245} ft

To Ib. xviii, Beilduts, 270 ff.

^{# 16} xva. 145 ff.

^{##} Ph weill Beildatt, 285 ff

^{= 10} von terribact, 44

⁼ Rev Philid, xlbi, 60 ff.

^{##} Bes Et, für xxix, 29 ff.

^{≥ 18, 170} ft.

³⁰ Karb Warn, classis, 0, 20 ff.

^{** 70, 38} ft.

²⁴ Jahres, 241 178 ft.

³⁴¹ H.C.H. LYELL 33 H.

^{##} J H.S. xxxxiii 88 ff.

^{***} B.S. d. and 109 ff;

³⁰ C.B. Acad Power 1915, 270 ff.

near Kula illustrating the domination of sun worship and the syncretism characteristic of paganism in the second and early third century. Though falling strictly outside the scope of this article I cannot refrain from mentioning the articles of S. A. Cook 200 and O. A. Danielsson 207 on the Lydian-Aramaic bilingual text, the most interesting of the fifteen Lydian documents published as in the official account of the American excavations at Sardis, A. Brinkmann has commented 240 on two inscriptions from the temple of Zens Panamarus at Stantonicea in Carta. A. Wilhelm has thrown valuable light on a text from lasus recording the foundation of a trust-fund, 200 M. Holleaux has referred to an inscription of Tralles 251 and has shown " that the author of the well known letter to Heraeles sub Latmo is not, as is generally hold. Cn. Manlins Voiso but probably one of the consuls of 188 g.c., and P. Roussel hus annotated an inscription of Loryma in the Rhodian Peraca. The famous epitaph of Abercius, Bishop of Hierapolis in Perrygra, forms the subject of an article 261 by L. Saint-Paul and of a note 255 by W. M. Ramsay. The grammar of the Greek inscriptions of Lycia, about a thousand in number, has been fully treated in a careful dissertation as by K. Hanser. J. Sundwall's monograph on the native Lycian names 20 and W. Arkwright's notes 20 on the Lycian alphabet cull for a passing mention, as also A. Wilhelm's suggested correction of two Greek inscriptions from Lycia, 339 To Wilhelm we also owe a number of valuable comments on and emendations of texts from Southern Asia Minor recently published by Paribeni and Romanelli (cf. J.H.S. xxxv. 268). M. Holleaux has published 201 notes on the letter of Attalus (II) to the critizens of Amlada (Dittenb. O.G.I. 751) and A. Hadjis has suggested nor a small correction in a text of Attalia. Twenty-four inscriptions of Castellorizo (Megiste) and nine which have been brought to that island from the neighbouring mainland have been collected and edited 28th by a French naval officer and discussed by M. R. Savignac and E Michon.201 In their provisional account of a journey in CILICIA. J. Keil and A. Wilhelm include a preliminary publication of various documents, notably a new fragment of the record of honours paid to Euclemus of Seleucia on the Calveadnus, an important functionary at the court of Antiochus IV Epiphanes un interesting decree in honour of a priest

10 J. H.S. XXXVII. 77 ff., 210 ff.

¹² Zu des lydischen Imehriten, Uppmla: 1 kr. 50 öre.

⁸⁴⁶ Sardis, Vol. VI., part I. By E. Littwmen, Leyden (Brill), 1916.

ow Hh. Mus. faxil 160.

FARMWOODEN, 216, 1.

[#] Ber. Et Anc. sviii. 247.

⁻ Ph. Ave. 237 ff.

⁼ ften, D. Or. xxix, 1841.

ms Ren. Philod, still 28 ff.

⁻ J.H.S. EXXIII. 1901.

Bale (Birkhäuser), 1976.

²⁰ Die sinheimischen Namen der Lytier, 1973.

⁼ J.H.J. XXXV. 100 H.

south Ware, state 4, 68 !

⁴² R. 53 ff. Cf. Jahresh, zviii, Beildutt, 0.

[&]quot; Res Et Anc xx 17 ff.

[&]quot; 'Arx 'Ed. 1915, 33.

^{**} Res. Bild. xiv. 287 (L.

at 15, 298 ft, 533, 546 ft.

⁻ Jakresh weith Bellibert, 1 H.

of Athena & Tayate and a dedication from Anazarba dated 92/93 a.p., in which Domitian is honoured as Dionysus Καλλίκαρπος and a new Governor of Cilicia Q Gellins Longus, appears. From Cyprus there is little to notice. M. Markides records the acquisation by the Nicosia Museum of the dedication to Zeus 'Ορομπάτας (cf. J.H.S. xxxv. 269) and of a new fragment from Frenancs, while E Hermann and W. Bannier the discuss points raised by texts in the Cyprian syllabic script. In northern Asia Minor in I need only mention nine Greek inscriptions from Sinope of which three were previously known, published they include the bilingual epitaple of an excentarion from Carnuntum and a statue-base of a Sinopean boxer with a list of the 200 victories won by him in various contests in Italy, Sicily, Greece and Asia. I have been unable to consult R. Leonhardt's work in a Paphlagonia.

Outlying Regions.—The number of new Greek inscriptions from ITALY is surprisingly small. Six Rhodian amphora-handles and two graffil have come to light at Ostin "; at Rame five epitaphs have been discovered 270 in addition to the four unpublished texts (Nos. 1674, 1689, 1761, 1853). included in the supplementary volume of its Rossi's Inscriptiones Christianue = Otherwise only the potter's signature on a vase from Vignacelle and the two Panatheraic amphorae of the late sixth century from Louri Epizephyrn = call for notice here. On the other hand, the interpretation of previously known documents has made marked progress. The three Orphic texts found in tombs at Thurii form the subject of a considerable dissertation of by J H. Wieten, while all the inscriptions of this class—from Thurst, Petalia, Rome and Eleutherms (Cret.)—arecollected and edited in one of Lietzmann's excellent Kleine Texte to F. Cumout has dealt afresh ^{πη} with the dediration of Gaioms δεστυσκρίτης, the Syrian eistiber Augustorium in Commodus' reign, found in the Lucius Farrings on the Jameulim: J. Offord gives some account = of the Jowish inscriptions collected in the new hall of the Christian Museum of the Lateran devoted to Hebrew records; C. A. Hutton supports the genuineness of the Apollonius-Signature (I. G. xiv. 132*) at Petworth House 2:1; other

of America Nicona, 1917.

⁼ Julisperm. Firmel. xxxv. 1601. = Bur. phil. Woch. xxxviii 1440 ff.

⁴⁴⁰ I must ti, do Jerphanion's article on Cappedonan and Pontic Inscriptions in Militages de Reyvort, vil. since this work is summer solder to one

me Han Arch. Hi (1910), 329 ff.

[—] Puphingonia, Reclin (Reimer): 1910. 2014. Recruwed Rect phil Work naxvii. 708 ff. Oc. Luczy. 1915, 244 ff.

ur Mon Ant. rain. 446 ff., 164 ff. ur Notice, 1915, 32, 167 : 1917, 283,

¹³ Inc. Christ, with Romer VIIo assents

maxiquizera Vol I. Suppl. I, Bumo, 1915.
 Noticje, 1916, 53.

年 6. 脚层 16. 16.

⁹⁷ Lie Selbus l'amons serveis ques in septieres Thuristie sunt inventus, Ameturdam (Channes), 1915.

Pom (Maron und Weiser), 1915; 1 M.

²⁰ C.R. Acad. Inser. 1917, 275 ff. Ct. Rev. BM, 40, 2901.

Pol. Kepl. Fund Q.S. 1916, 145. See Numer Bullstone Arch. Crist 1915, L 2 (Graning)

mi B.S. 4. 221 163 ft.

Roman inscriptions are discussed by L. Radermacher ³²² and W. Bunnier. ³²³ The correction of a Pompeian graffito ³²⁴ and the interpretation ³²⁵ of certain terra-cotta boon-weights from Taras (Tarentum) need not detain us. Of greater importance is D. Comparetti's examination ³²⁵ of the inscriptions on four bronze tablets of the fifth and fourth centuries a.c. from the Achaean cities of Crimisa, Caulonia, Petelia, and Terina in Southern Italy, all of them testamentary in character: the example from Terina had not been previously published, while that from Crimisa was known only in a very imperfect copy and restoration. ³²⁵

The harvest from Sicilly is also strikingly meagre. Messams has produced ²⁸⁸ a number of epitaphs defixiones and brick-stamps as well as two Greeo-Oscan inscriptions of the Mamertine period: eight brief archaic texts come from Selimus and three from Motye. ²⁸⁸ The remaining twenty-nine inscriptions—from Catania, ²⁹⁰ Syracuse. ²⁹¹ Conturpa ²⁸¹ and Salemi ²⁸²—do not call for detailed mention. The concluding instalment of the S.G.D.I. includes addenda, grammar and index to the Sicilian dialect inscriptions, edited by K. H. Mayer.

A bitingual Christian epitaph and a fragment of a Greek inscription have come to light at Carthage 200. Of the finds made in the Cyrenaica I cannot speak, as the publication in which they appear is not accessible to me. 200. In EGYPT discoveries have been more plentiful and of greater interest, but for these I must content myself with a reference to my Bibliography which will be found in the sixth volume of the Journal of Egyptian Archaeology.

For the inscriptions of Syria and Palestine the periodical reports of E. Bleckmann, the latest of which deals with 1913/14, are full and calcable. A building record of 561/2 a.u. from a messic pavement at Shellal. The mar Gasa a brief text from Khan Younes of and a fragment of a dominent of the early Imperial period from Joppa, one in the Museum at Uddevalla (Sweden), should also be noted, as well as J. Offord's comments on two Palestinian inscriptions recently published. The island of Ruad, the ancient Aradus, has produced (in addition to a Rhodian amphorahandle, a vase inscription and four weights) eight Greek texts of which the most interesting are a Greco-Phoenician bilingual dedication to Hermes

William, Stud. xxxix 70 ff.

³⁴ Berl, phil. Week, xxxviii 981.

in 'Apx. 'E4 1015, 33.

at Arch. Air. xxxl. 1181.

²⁴ Annuario, 11, 219 n.

ne A. Vogliano, Atti Accoud. Torcus, xlix. 1027 ff.

²⁰⁰ P. Orm, Mon. Ast. xxiv. 121 ff.

Notice, 1917, 341 ff. Cf. for Motye, 1915, 438.

^{*** 15, 1915, 216.}E.; 1918, 60 ff.

²⁰¹ Jb. 1915, 183, 200. Cf. Beel. phil. Work. EXXVIII. 980 f.

²⁰¹ Notice, 1915, 270 L

mi Mem. Ant. nuiv. 697 ff.

^{**} G.R. Acad. Janes, 1916, 423 f., 1918, 144.

Notinario Archeologico L fine 1, 2, Rema (Ministerio delle Colonie), 1915. See Rev. Arch. ii (1915), 492.

²⁰ Zeits, d. d. Paliteline-Vereins, xxxviii. 220 ff.

Pal. Expl. Fund. Q.S. 1918, 145; M.S. Briggs, Burlington Mag. May, 1918; Rev. Bibl. xiv. 509 & ; xv. 599.

[→] Rec. Rill. xiv. 1724.

ne H. Armini, Erance, xv. 208.

²⁰ Pat. Expl. Fund Q.S. 1915, 198 ft Ct. Rev. Bibl. xii, 279.

and Herucies, a mutilated epigram and an honorary inscription on a statue-base of the well-known C. Antius A. Iulius Quadratus, governor of Syria in the early years of Trajan." Two further instalments of the collection of Grock and Latin inscriptions made in North Syria by the Princeton University Archaeological Expeditions have appeared and maintain to the full the high standard attained by this publication. One of these parts, new devoted to the Hauran Plain and Diebel Hauran, contains 185 inscriptions, mostly sepulchral and votive of which 100 were not previously known these include a dedication of a muoyos kar i) cecama for the safety of Gallienns (No. 636), a building inscription dated 45 A.D., the earliest text with an emperor's name which has come to light east of Anti-Lebanon [No. 655] and a votive to Beec Gearôpies (No. 763). Three further inscriptions from the Hauran have been published by F. Bleekmann 164 The remaining part of the Princeton collection so contains exteen Greek inscriptions of the interesting Greeo-Nabatean site of Si (Socia), of which only three appear for the first time, including one (766) consisting of sixteen fragments of the edies of Agrippa, portions of which have been found at Kanawat (Dittemb, O.G.T 424). A. Harnack has discussed at some length 1001 the oldest Greek church-inscription, discovered at Deir Ali, 22 km. S.E. of Damascas: it was inscribed over a συναγωγή Μαρκιωνιστών, a Semitic-Greek village church, in 318/9 A.D., in the brief period during which heretical churches might publicly declare themselves as such. Of the article by M. von Oppenheimer and F. Hiller von Gaertingen on 'the cave-inscription of Edessa with the letter of Jesus to Abgar I know. nothing save this Litle 300

Excavations on the Serai Point at Constantinophe have unearthed a number of Byzantine stamped tiles — and six late inscriptions, of which the epitaphs of Photinus and ἀββάς Αρτώνιος and the building-record on the tower of Michael II. and his son Theophilus are the most valuable. Three Greek texts were discovered on the Gallipoli Peninsula during the military operations—a dedication — by the δήμος of Elacus to Attalus II. saviour and benefactor of the city, and two epitaphs from Savia Bay — belonging to the second century of our era, one of which mentions the πόλις τῶν Κοιλανών. V. Pārvan's survey — of archaeology in Roumania refers to various Greek inscriptions found at Ulmetum, Mangalia, Constanza and Histria: at Kara Orman, a vicus of the last-named, a new and interesting fragment of the Aristagoras Inscription (Dittent).

¹¹¹ Rev. Bibl. 1111. 576 ff.

^{= 16} xir 209 ff

Spring Div. III., Section A. Part 5, Leyden (Brill).

³⁶i Zeite, d., d. Paldatom-Verrine, xxxviii. 222 ff.

Div. III., Section A, Part 6, Layden (Brill).

[&]quot; Sitzh, Berlin, 1915; 746 ff.

are ft. 1914, 817 ff.

²rt Arch. Au. 22 vi. 17 %.

^{+ 76, 22.}ff.

am (N. Ang. Ep. 1915, 34.

⁴⁰ Class. Quart. st. 1 f.; C.R. Acad. Inner, 1917, 29 f.

^{80 8.8.4.} uni, 166 ff.

¹¹¹ Arch. Am. 288, 230 ff.

Sull! 325) has come to light " and at Histria itself a second-century votive set up to the Διάσκοροι Σωτήρει by οί σπρατιώται πεπλευκότει έπι βοηθειαν Απολλωσιώταις." From the same town come four Greek texts, edited by K. E. Illing, 100 three of which were erected by the Council and People τής λαμπροτάτης Ίστριηνών πόλεως in honour of Caracalla, Severus Alexander and Julia Domna respectively. G. Soure has continued his articles on the archaeology of THRACE MIT discussing a number of unpublished or little known documents' inclusive of eight inscriptions, one of which records a decree to passed by the Lacodaemonians in honour of M. Ulpius Gennalis, a native of Trajana Augusta and honorary citizen of Sparta, for ή περί παιδείαν και λόγους σπουδή. G. Kazarow has been active in the preservation and publication of inscriptions recently discovered, many of them during the course of military operations at Kara Orman, 719 Malko Tirnovo 200 and various points on the Aegean coast from Aenus to Abdera 320 F. Preisigke has discussed the Scaptoparene Inscription (Dittent: Syll * 418) in relation to the Imperial Chancery at Rome, and M. Holleaux has proposed 200 a new restoration of a difficult passage in the decree of Dionysopolis for Avornion (Dittemb Syll. 342). The interpretation of the Thracian inscription engraved in Greek letters upon a gold ring found at Ezerovo continues to exercise scholars, but the problem still remains unsolved m

On G. P. Ockonomos' collection of inscriptions from Macedonia, which I judge to be a work of some importance, I am anable to report from first-hand knowledge ²²² To the same editor is due a preliminary publication of various finds made at Salonica ²²³ while two epitaphs have been discovered ²²⁷ by A. J. B. Wace at the site of Olynthus, and several points in the famous inscription of Lete (Dittenb. Syll * 318) have received fresh treatment from O. Cuntz ²²³ A series of thirty-two texts from Beroea (Verria) has been published by A. K. Orlandes, ²²³ of which one, a votive erected to Atargutis Σώτειρα by a priest, dates from the third century 8.0., while the remainder belong to the Christian era: two interesting manumissions of 239 and 261 a.n. take the form of dedications τῆ θεῷ Συρίο Παρθένφ. Finally the lower part of an altar with a bilingual inscription has come to light at Poetovio (Pettau) in Styria. ²³⁰

MARCUS N. Ton.

ms 7h 248 f.

m 75, 269 f

Be Bert, paul Work, Exsvii 1634 ff.

n: Rev. Arch. L. (1915), 71 ff.; H. (1915), 165 ff.; iii, (1916), 300 ff.

^{=# 75.} il. (1915), 204 if.

^{##} Arch Ast xxx. 166 ff.

^{= 16.87} ft.

ati Arch. Asz. exstit. 190.

Schriften d. wiss. Overlischaft Stonesburg, gxx. 1 ff. Cl. Rec. Avg. n. (1915), 172 f.

⁼ Rer. E. Aur. xix, 550 ft.

⁼ Rie. Indo-greco italica filot, ling, onto i-

²⁰⁰ ff.; Fadogoria, Forsch, xxxvii, 209 ff.; filomo, vii, 86 ff.; Ball, Soc. Arch., Rulg. iv. 70 ff., v. 232 ff.

Athena (Saketherica) + dr (T. Ayg. Ep. 1915, 23.

^{**} Asy, Astr. ii. supdorqua, II. Cf. Jahrosh.

[#] B.S.A. XXI. 14.

[⇒] Hermes, iii. 102 ff.

am /Arg. Arar. H. 161 ff.

^{**} Jakeesh, xvii. Beiblatt. 110

POSTSCRIPT TO PAPER ON DIADUMENUS HEAD.

Since finishing this paper I have observed a serious omission in it. I have not given any exact reproduction of the pattern on the headband produced by the inlaying of silver. This defect I now remedy. Mr. E. H. New has made for me a careful drawing from the original, in natural size.



The pattern is of a familiar type, the alternate lotos and bad; but it is a very interesting variety, to which I have not found any exact parallel. The form, indeed, is much more like a palmette than a lotus. The base from which the leaves spring is boat-shaped, not oblong, and there seems to be in the drawing some attempt at perspective. We know, in fact, that the principles of perspective were applied, not to landscape but to architecture, as early as the middle of the fifth century. On the central leaf of one palmette there are traces of a pattern.

The question arises whether the design is merely decorative, as on many Greek ruses, or whether it has some meaning. Closely similar to the lotus or palmette of our design is that on the crown of Hera on the coins of Elis (B.M. Cat. Peloponaesus, Pl. XII). The palmette also occurs on typical sculptured heads of Hera, such as the great Ludovisi head. It is noteworthy also that the thunderbolt on the coins of Elis often resembles in form two palmettes united at the stem. The coins bearing the name of Elis were closely connected with the Olympic games. Whether this line of connection is sufficient to relate our head to Olympia is doubtful, but for the head itself Olympia is a very probable source, remarkable bronzes having been washed up by the rivers on the site.

P. GARDNER.

NOTICES OF BOOKS.

L'Archéologie française en Asie Mineure et l'expansion allemande. By F. Sarriaux. Pp. 55. Paris : Hochotte, 1918. 2 fr.

This terrors delivered before the Societé de Geographie gives an interesting historical aketch of archaeological activities in Asia Minor beginning with the days of Francis L. and of the decline of French enterprise during the last forty years, a pariod marked by ever moreosing efforts on the part of Germany.

All the world knows that Germany prostituted her scientific missions to the service of her political schemes, and when he spoke (the becture was delivered in February 1918) M. Sertiaux scould not have been human if his strictures on the slackening efforts of French science had not been tinged with regres at lost political opportunities, which if second might have spared France part at least of her agony.

In effect the brochure is a political pamphlet, and the author in urging a return to the policy which brought France archaeological renown in the past is, very pardonaldy, not perhaps wholly awayed by seal for the interests of archaeology or for the amentific reputation of his country, and he may be suspected of losing sight of the international character of science and set

A short account is added of excavations undertaken by the author in Phocaes in 1913, 1914, the study of which place as the mother city of Marseillas is regarded us the special right of Frenchman, and indeed as a prous duty; and the work concludes with a description of the pillage of the town by the Turks on the 12th June 1914.

Myths of Crete and Pre-Hellenic Europe. By Dosais A. Mackeszm. Pp. 361, with 37 Plates (4 in colour). London. Gresham Publishing Co., 1917.

This beak contains a good popular account of the discoveries in Crete and the boolers of the Aegeni, and of the probable relations of Crete with her neighbours. The title would seem to be a minimum, but the cult of the 'Great Goddess' in Crete leads the writer, quoting parallels from many lands, to administrate a theory of ethnic relationship leads on a common worship.

The lavish use of the word 'probably' has permitted the communities of various speculative editions which it may be suspected might be undermined by a close examination of their foundations, and this suspicion is strengthened by a certain lack of discrimination shows in the choice of the authorities quoted, who would appear to differ much in weight.

It seems, then, likely that the chief value of this book will be for the layman as an introduction to the study of the many subjects touched upon in its pages.

The book is well illustrated, but the four toloured plates by Mr. John Duncan, A.R.A., whose inspiration is drawn from the Minoan freecoes, are too well in keeping with the author's design.

Sikyoniske Vaser: en arkaeologisk Undersøgelse. By K. Fam Johassen. Pp. 171, 31 plates. Copenhagen; V. Pios Boghandel, 1918.

The vasce which Johansen calls Sicyonian are, broadly speaking, those which have commonly been styled prote-Corinthian, rather for the take of convenience than from

any general conviction that they were annunfactured at Corinth. Their real origin is disputed: they have been attributed to Corinth, to Argon, to Bosotia, to Chalcis and even to Ionia. Less-licke suggested that they were Suryanian, and Johansen, after a careful study of them, comes to the same conclusion.

On grounds of technique, shape, and in some measure provenience, Johansen is led to believe that the so-called 'Delphian geometric' pottery, some specimes of which Furtwangler had already connected with 'proto-Corinthian,' is the Shyoman ware of the geometric period. In 'proto-Corinthian ware proper be discriminates three periods, which he names after characteristic shapes, the periods of the broad, the pointed, the tall arybalios: and within those periods he makes a further classification according to shape and style. For the purpose of his study he has visited most of the museums in Greece and in Italy and has sought out and examined the relevant objects with the greatest diligence: in particular he has investigated a number of unpublished finis, and from these, together with the ample material already published, he has been able to draw important conclusions as to the sequence and comparative chronology of his ways.

The broad aryballot, and the vases which go with them, belong to the late gosmatric period and are contamporary with the early proto attic vases the non-geometric elements are derived from Cyprus, partly by way of Crete. This period is amounted by that of the period aryballos, in which Sicyonian vase painting culminates: the simple geometric patterns and uniform rows of animals give way to hotorogeneous rows of suimals and scenes from life and myth; the black-figure technique appears with its messon and added red and white; masterpieces are produced like the Macmillan lekythos in the British Museum and the Chiga vase in the Villa Ginlia. Contamporary with these archeic vases is a group of 'sub-geometric' vases, usually of less loving workmanship, which continue the style of the first period, that of the broad aryballos. The third period is that of the tall aryballos; Sicyonian vases now show Corinthian influence and are found side by aide with vases of pronounced Corinthian type.

The arguments, negative and positive, for the Sisyonian origin of the ware are very personally stated by Johansen. The inscriptional evidence is unfortunately scanty. New light may be expected one day from Sicyon: but the place has not been excavated.

The last chapter of the book deals with the chronology of Sieyanian pottery. The author compares the yield of Sicyoumn vasus by Syracuse, Megara and Gela with the dates given by the ancients for the foundation of these cities. A certain number of Syracusan graves belong to the period of the broad aryballos; only a few specimens have been found at Megara | the oldest Sicyonian vases found at Gela belong to the transition from the broad to the pointed type. The stylistic argument would therefore place the three cities in the following order. Syracuse the oldest, then Megara, Gelalast; which is the traditional order. This encourages the author to scoop the tradition. for the absolute as well as for the comparative chronology of these cities; so far, at any rate, as to date the foundation of the three to the later part of the eighth century. The period of the pointed styballos will thus be the first half of the seventh contury. a date confirmable by the evidence from Egyptian scambs, by the absence of Sicyoman ware at Naucrates, and by the prevalence of the cuffure known as 'layer hair,' which on other grounds is considered characteristic of the seventh century. Approximate dates for the first and third period may be obtained by working backward and forward from the date assignable to the second.

The above is but a summary of an important book which maintains the high standard of Danish archaeological work. It may be added that the book is well printed and well illustrated, and contains many observations on the history of shapes and ornamentation which will be of interest to scholars working in similar fields.

TETOPIA THE EAAHNIKHE ΔΗΜΟΣΙΑΣ CIKONOMIAS By A. M. ANDREADES. Pp. 80. + 624. Athens: Raphtania, 1918.

This work forms part of a systematic survey of public finance, with special reference to the finance of modern Grosco. In spite of its title, it does not cover the whole grand of ancient Grosk statecraft, but merely deals with a few special topics such as the public ecoming of Athena and of the Byzantine Empire. The finances of the great temples, of the federal states and of the post-Alexandrine monarchies receive no consideration, although the author promises to discuss them in a future treatise of wider compass. So far as it goes, the present back answers its purpose well. Though somewhat lacking in detail about the administrative methods of the states passed under review, it offers a full and clear conspectus of their revenues and outlay. Except in the section on Byzantine finance, where he breaks new ground, the author makes hardly any fresh contribation to the knowledge of line subject, but he makes judicious 22 of the results of resent research, and he suppleys his wide knowledge of general economic history to good affect. Prof. Andreasies should be capable of producing a standard work on Greek finance, but his present book is not likely to displace any of the axisting manuals.

The Seleucid Mint of Antioch. By Howans T. Nawara. Pp. 151, with 13 plates and 23 cuts in the text. New York: The American Numinimalic Society, 1918. Five dellars.

Mr. Nowell's most promising attack on the complicated series of problems presented by the coins bearing the name and types of Alexander the Great has been grievously interrupted by the cataclysm which has placed so many important collections out of bounds to American, no less than for British, scholars. He has turned part of the interval to excellent account by making an excursion into the neighbouring realm over which the Salenzidae preside. His investigation has, of course been haupered by the lack of casts and other reliable information: one cannot be corrain that 'pivotal' specimens may not be lying unrecognised in the trays of, say, the great cabinets at Berlin and Vienna. This handlesp notwithstanding, he is to be congratulated on having achieved a notable advance.

Long ago I ventured to suggest in the pages of the Journal that the intensive study of small groups of specimens, presumably the products of particular mints, offered the heat hope of progress towards a properly ordered and final arrangement of the summey of the Selencial Kings. Mr. Newell has bettered this advice. Greatly during, he has ventured to tackle the output of what we must suppose to have been the most prolific mint of all; and has endeavoured to catalogue the royal gold and adver issued at Antioch from the reign of Sciences II. down to the end of the dynasty. It is, of course, regrettable that the earlier kings are emitted. But the questions relating to those are so difficult that it would have been alle to approach them without the assistance of hundreds of casts which at the moment it is impossible to procure, and we must perforce acquiesce in the relatively late beginning. Future workers will find it a great advantage to have the Antiocheme issues segregated, even from the middle of the third century a.c. onwards. And Mr. Newell's main conclusions are likely to be accupted by students generally. I for one, am not disposed to quarret with almost any of them, least of all with his uncompromising rejection of the old theory that the monograms usually conesal the names of mints. The points of interest are so minorious, and so varied, as to preclude any attempt to enter into detail. But it is perhaps permissible to mention that the well-known tetradrachus of "Antischus, son of Seisuous III." are assigned to the childhood of Antischus V. (Eupater), an attribution originally proposed in the J.H.S. for 1993. In his discussion of the coins of Antischus VI., by the way, Mr. Newell does not mention the tetradrachus of 142 a.c. struck from a die on which the name YTA has been deliberately arased. Has be overlooked Regling's paper in Zeitsche, für Numiamatik, GEORGE MACDONALD XXIV. 7

ΑΡΙΩΝ-ή Μουστεή των Έλληνων ώς διετώθη είπα τών εξεχοιστώνων χρονών μεχρί της σήμερια ἐπό Α. Ρεμπντά καί Π. Δ. Ζοχαρία 4ta. Pp. kwavi+63. Athana: Τύσοις Εναμ. Ζογκουρογόρου, 1917. 12 drachoma

The authors declared aim is to dissipate the errors of certain Western musicisms about Greek music, and to establish this branch of the art in the position that it deserves. Now Greek music may melade the ancient Greek theory and surviving fragments, Byzantine church music, and finally modern Greek music, both ecclesiastical and popular. Something is said upon all these in this book, and specimens are given in European notation with a pinnoforte accompaniment. For Western readers the main concarn will be with the folksongs; and here we cordially welcome the effort made by the authors to stimulate the enthusiasm of their countrymen for their intional music. with the suggestion that Greek folksungs should form the basis of musical instruction in We fully agree: Greek schools. Many of these songs are of great heanty, and bear strongly-marked features of rhythm and tonality. The idea, however, that such traits are directly inherited from amount Greece must be excused as a patriotic exaggeration. We feel sure that the native meledies of Hellas can stand on their own merits. In dealing with ancient music the authors keep to the orthodox lims. The examples are from Blumum and von Kralik, whose interpretations are adopted. Only one mediaeval hymn is printed; and, as the reference to the MS. (Athons National Library) is counted, it is impossible to check the enrectness of the rendering. There are six modern occlosins that specimens. The authors do not say whether they are entirely in favour of part single; in the Greek Church. The first hymn (only Dagar) is meant for troble and alto in thirds throughout (not a satisfactory arrangement) : but, the Kips despate (p. 14) is for museus singing. On the whole such a compromise is unlikely to succeed hymne conserved by men who never dreamed of barmonization are far botter sung as intended, i.e., in our moving part over a drone. The attempt of the unthers to avoive laws of harmony for the various analys (as was done by S. G. Hatherly in his Treatle on Byzantine Music) in theoretically ingenious and might be usuful to composers sacking in tireck many some impiration for larger works. The theoretical portion of the book also deals with acousties and the laws of harmony. The student of Modern Greek will be interested to see how masily that language renders the technical terms a contrast to Russian, which has imported them wholesale from the West. The imdiscoul mode-system is briefly discussed; but that of Chrysenthus (printed 1832) receives fuller treatment. The authors condemis the latter for perpetuating confusious in tonslity. Metre and chythm are also dealt with. We note that 5-time and 7-time occur in the folksomes (another supposed legacy from ancient Greece). In Church music the authors melitie to a messural tempo, contrary to tradition.

Forty-six folk-malodies form the chief attraction of the volume. (Seven of these arfrom Bourgauit Decoudray, Milodies populaires de Grèce et d'Orient.). The plane accompaniments (which are as a rule successful) will be justified if they encourage performance of the sugs. The modal character of all the sits is carafully preserved.

The music and text are clearly and accurately printed. The introduction, written in the higher literary style, is generally lucid and free from pomposity. There is a full table of contents, but no index.

H. J. W. T.

War at Sea; Modern Theory and Ancient Practice. By Admiral Sir Remarker Course, G.C.B., K.C.M.G., C.V.O., D.C.L. Pp. ix+H3; eleven Plans and a Map. Edinburgh and London Blackwood, 1919.

Will anyone, we wonder, ever write a real history of naval warfare in the best five centuries n.c.? The writer would have to be something more than abresst of modern critical research, and at the same time be well versed in both the theory and the practice of modern mayal war; and he must never forget that his subject was real ships on a real sea, and not a classical tradition. It seems unlikely that such a combination of qualities will occur. The little book before us, in spits of its wide title, dose not pretend to be ench a history. It takes the naval actions of two wars, the Persian and Peloponnesian, and applies them to illustrate the general theory of waging war-a scheme which demands that you first thoroughly understand what those naval actions were. The two spetions into which the book falls are of very unequal murit; would it be unfair to say that this reflects the difference between Herodotus and Thucydides! In the langer section, dualing with the Pelopoinesian war, numbers are carefully collated, and the anval operations are well done. Most of them were also well done by Thucydides, himself a naval commender; but even those who know this war intimately will gain from Admiral Custance's treatment of the sea story as a connected whole. Especially about and good in the manner in which the two trade routes. Siefly-Galf of Cornell and Black Sea-Dardanelles, are shown to comilition the war at ma. In tactics, just sumphasis is laid on the deepening of the Athenian wings at Arginusao, - a noveity which paved the way for Epsminondas and Demetrius. The author, however, when considering Phormio's innovation, soon abandoned, of using line algord instead of line abreval, might well have warned the reader that this does not mean what line alread means in modern warfare ; for as artiflery was unknown, line alread for Greek galleys was only a manosuvring and not a lighting formation; they always had to turn into line abreast to fight. And it was not a 'mon system'; on the author's own showing, the Persons sustered Salamis Bay in column of the about. We know now from Sosylas that the Phoenicians 'invested' the discpine, both that and line ahead may be infinitely old.

The shorter section, on the Possian war, is much inferior to the other; is as too brief, and, though the nutber has committed Dr. Macan, he conveys no slear idles of either of the hig harries. This is become (so far as appears) he has not really thought out his Herodotus. As an instance, no believes Herodotus' mayal sumbers to be 'not impossible.' It follows that he ought, as a practical seamon, to tell us exactly how, without wireless, you mok 1,200 warships about and authored them, or managered a line which he throke naght in certain arcumetances have been 10 miles form. It may be simplicity itself; but here was a chance for an expert to explain it to the wondering layman Artemisium he deaves the Greek first up mayor the mouth of the Oreos Channel, with either flunk resting on the land, and then makes the Persians (3rd day) seek to someter them. At Salamia, where he makes the Persians enter (as everyone new doos) in column of line shoul, he first suggests that they were caught 'at a dissilvantage' by the Greek's while changing to line abused, and later says, "it is not to be doubted that the Persiana made a frontal attack '; while the plan shows two Person columns, of which the matern, nine abreast, is meeting, bows on, the Greeks, who are in column of 15 shrund, Frankly, the account conveys limit meaning to the present reviewer. And the conclusion, that the barrie illustrates " he advantage to be derived from a skillful use of the land by the inferior fluit," is no conclusion at all unless we are quite sure (and in 1919 we are not) that the Greek floot in Salamis Bay on the day was decaledly inferior. What it does illustrate is how one of the land enabled the slow ship and the spear to beat the fast ship and the baw.

The author, however, has an interesting theory so to why the Persians ever fought Saianne at all, which is, of course, the real point: the position of the Greek floor flucked their further advance, and, had they not fought, their see communications, vital to their land army, would have been undangered. But it is not certain that the samy depended on scalarone food, or rather on food yet to arrive by see; Martionius did very well without it. (Consider the Bolgarian sart-turnsport of 1912.) And anyhow the first (abandoned) Persian pion—to monocuve the Greeks out of the mirrors by sending one appairion to the Argolial—south apparently have mot the case. But the author is much interested in the danking position as being the true foundation of all caval strategy, a there which he illustrates excellently from the Athenian floor at Sance in the latter part of the Pelopounesian war, and from Hermocrates' advice to the Syramsons—(if is arrange that he does not adopt Dr. Macan's sine about Artemisium, that the Greeks took

position to flank a Porsian advance down the Oroca Channel): and perhaps the reason of his Salamis theory is to be found in a little sentence on p. 100; he is one of those which think that the Grand Fleet might have been in the Forth to flank a German advance wouthward.

The battle plans, or rather charts, are mostly excellent. There is a slip on the Sybota plan, where '20 Athenians' should be '10'; perhaps it aims from the 20 Athenians who came up after the battle. The author introduces a dolightful word which is new to the present reviewer—a floot of accordance is called an encry.

Greek Political Theory: Plate and his Predecessors. By Envisy Bassin. Pp. xiii + 403. London: Methaen and Co., 1918.

Some tarelys years ago Mr. Barker produced a valuable book on the political thought of Plato and Aristotle. He now gives us under the above title the first volume of a new work based on his earlier book, but containing much new material and planned on a considerably larger scale. Thus 207 pages dealing with Plate and his predecessions in the original work have been expanded into 392, with eight lines more on each page. He has added a new and most interesting chapter on the political, communic and educational characteristics of the Greek States, and on the parts which slavery and representative matitutione played in them. It is useful for the student of Plato and Aristotle to be runmided that the low view which they hold of labour was not shared by the Athenian public and was "the opposite of Pericles' conception that an inlequate knowledge of politics can be combined with attention to private business. Mr. Barker has much enlarged his section on the Sophistic at the end of which he prints a translation of the recently discovered fragment of the Sophist Antiphon on Truth, which shows how a naturallytic view of the universe led to a naturalistic system of othics and politics. Antiphon was sufficiently broad-minded to hold that "our natural endowment is the same for all of us, whether we be Greeks or barbarians, and he thus uses the antithesis of chiese and somes not merely for the familiar purpose of discrediting established law, but also with the more commendable object of proving the fundamental equality of mankind, Stress is rightly laid by Mr. Barker on the point that the 'Might is Right' philosophy owes much to the political fact of the Athenus Empire.

Mr. Barker decotes much attention to the earlier Platonic dialogues, as adumbrating the fully developed doctrine of the Republic, lucidly amuniarises the relation of that work to the 'southing of opinion which characterised the end of the fifth century at Athens, and shows in detail how Plato's own political experiences and fired his political theory. He gives a general assent to Professor Burnet's view of the relation between Plate and Socrutes, while refusing to believe that the decirine of ideas, communism and the rule of the philosopher-king are Socratic. We are enclined to think that his account of the Republic is somewhat unduly expanded. Auxious that we should miss nothing, he pumphrases Plate at great length and is prome to dwall on the important points with perhaps unmecessary reiteration. Most welcome, however, is his criticism of Plate in the light of modern political theory (he is a faithful disciple of T. H. Green), as well as of the most recent political survements; for, so he says in allusion to the war, "it is impossible not to feel that a new feeling for an old surveys came from the encumelances and environment of the times. Militarism, navalism, international relations, national edination, socialism, the right to live, are discussed with the sanity and lumdity which we expect from Mr. Barker. The study of philosophy would be shorn of most of its terrors if all its exponents possessed Mr. Barker's clarity of style.

Chapter xii, contains a full analysis of the Politicus a dialogue at the end of which Plato, forsaking the absolution of the Republic, *makes his peace with reality and acknowledges that there is room in political life for consent and law and constitutionalism and all the slow mescientific ways of the world of men. Here again we think Mr. Barker

in a little long, but the chapter is brightened by allusions to the Stuar theory of prerogative, the German theory of monarchy, and positivism. The next 100 pages are devoted to the Lame, "the most neglected and in many ways the most wonderful- and the most modern (or mediaeval) of all the writings of Plato. Realising that the wisdom of a philosopher-king can never in this imperfect world take the place of law, Plate undertook a sort of codification of contemporary laws, which largely millaunced Hellenistic and, later, Roman law. In this dialogue, too, he invented the grammar. school, as in the Republic he invented the university. These two points, made by Professor Burnet in his Greek Philos phy, supply texts for much that Mr. Barker has to tell us about the Loss. In the Loss education means education in the general art of sittzenship and in the spirit of the laws. Plate's prombles will provide a servenium. lesson-book. So important is education that the Minister of Education is to be the chief magistrate of the State. The teachers, however, are to be resident aliens and are to be paid! Elementary teaching is no work for a cuttom of Athena, and pay would lower him. Pupils are to attend the same school for all subjects, and each school forms an 'officers' training corps, says Mr. Barker, where military drill is taught under the guise of physical training. We think that most readers will find the chapters on the Lane the most interesting part of the book

Mr. Barker concludes with a note on Airstotle's very considerable debt to the Love and a useful appendix on the later history of Plate's political theory. 'The end of the Love is the beginning of the Middle Ages'—a saying justified by the religious destrine and persecution of the last book, where we read of the Nocturnal Council convarsing with heretics in the House of Reformation for the salvation of their souls. But says Mr. Barker, the analogies are spontaneous. It is surious, and somewhat sud, to find that the way of faith and the way of reason, at least of the later Platonic variety, lead to the same result. Elderly metaphysicians tend to resemble youthful theologians in thinking that no view of the world but their own can possibly be right or even decent. Philosophy is obviously not for Little-Faiths.

We hope that Mr. Barker will not be long in giving us his second volume on tristotte and his Successors. Such a book is builty wanted. J. H. S.

The Neo-Platonists. By Thomas Whittaker. Second edition, with a Supplement on the Communitaries of Proclim. Pp. xvi+318. Cambridge University Press, 1918.

During the last few years Neo-Platonian has been receiving in Great Britain some of the attention to which its intrinsic greatness and historical importance entitle in. The revival of interest in the subject is due in no small measure to Mr. Whittaker, whose treaties, The Neo-Platoniae, published in 1991, still remains the best account of the school in English. Mr. Whittaker now gives us a second edition of his book, adding an appendix of 84 pages on the Commentaries of Proclus. Apart from this supplement, the only alteration of importance is in his account of Grastagem, which Restronates has shown not to be primarily a philosophical development of Christianity, as Mr. Whittaker maintained in his first edition, but to have its roots much further back to the religious of Persia, Chaldace and Egypt.

With the bulk of the book, which appears almost in its original form it is harily necessary to deal here. The supplement, however, deserves notice as a new and important contribution to the history of philosophy. The New-Platonic School was founded by Plotinus at Rome about 244 c.c. After the death of Implichus, about 330, it diffused itself through the Empire, and at the beginning of the fifth century found a name in the Academy at Athens. Mr. Whittaker's purpose in adding his appendix on Proclus. Commentaries is to give a more detailed account of this Athenian period of New Platonism, of which Proclus, houl of the Academy in the second half of the lifting

century, was the chief representative. Proclus in so interesting that we may fairly wish that Mr. Whittaker had treated him systematically in a separate volume, a plan which, as he tells us, once occurred to him. The great merit of Procins is not that he is a thoroughgoing systematiser-nowadays over-much system is happily at a discountbut that he is full of acute embosums of his prodecessors, and foreshadows a number of important nuclers dectrines. He makes the point, so obvious to present-day readers, that Plate would have been expelled from his own Republic as a dramatic artist and a jester. In his Commentary on the Paracada he asserts that 'what Zona denied was that a phyrality absolutely dispersed and without any unity that it participates in can be real at all. Whether this was Zeno's meaning or out, the interpretation is certainly acute. Procliss indeed sometimes warns us that he is bringing out the implications of a doctrine, without guaranteeing that those implications were present to the mind of its author. He has much sensible criticism of the doctrine of spacycles, which, he says, may be useful anough for estculation, but do not represent the reality. The simplest thing is to suppose that "He planets . . . move according to types of motion intermediate between the circular and the recilinear. To explain the planetary autions. he has recourse to "changing impulses from the planetary sonts," but it is no small advance to have attained an approximately correct descriptive formula.

Proofin daffines experience = a kind of prolimmary knowledge, afterning only a "that" and providing the material on which judgment operates and which reason turns into an object of knowledge and verifies by processes which make evident the inward omergy of the judgment. This strongly suggests Kain, and there is an equally strong suggestion of Kant in the statement that every moutal set points to "some one indivisible thing in in that knows all our energies, of searce higher to the source stages. In spins of holding the characteristic New-Platonic doctrine of mystical illumination, or rather nesciones, resched by the negation of all possible predicates, he distinctly formulates the doctrine, says Mr. Whittaker, that the ultimate test of truth ' is ultimately coherence in a total system of knowledge. Again Mr. Whittaker suggests that Proclas is anticipating the principle of 'organic value, when he argues that 'the combination of the worse and the bester makes the whole one and perfect, though when they are not organizally united, the mixture of the weree dustroys the power of the botter. Proclin' treatment of Time is particularly interesting. It is, he holds, more real than the thiogs in Time, and all progress implies it; it is not merely an attribute of consciousness, external things also partimpate to it.

The weak point of Proclus, as of Porphyry and the successors of Platinus generally, is their uncontrollable passing for allegorising. But Proclus is quite aware of his own weakness, does not expect always to convenue, and excusse his interpretations as useful mental exercises. His voluntious frontiess are written in a clear and attractive style. They are interesting not investy as the dying uttermness of free Hallamic thought, but motoristing a thousand years before their time some of the profounded these of modern philosophical speculation.

J. H. S.

English Translations from the Greek a Bibliographical Survey. By Fixury Melville Kendall Flares, Ph.D. Pp. xxix + 146. New York: Columbia University Press, 1918.

This is a list of translations published in England and America from Caxton's 1484 Acceptor Planudes) down to the year 1917, drawn up under authors and including Greek literature up to 200 a.b., with the exception of describing and the Christian Fathers. The sources drawn upon are, for English tesnalations, Miss Heuristia Palmer's flat up-to 1640 in vol. 31, of the Transactions of the Bibliographical Society, the General Catalogue of the British Massuis Labrary, the English Catalogue, Watt Lowndes and the like; for American translations, Evans's American Eddingsophy, the American Catalogue, the Publisher's Weslig, etc. A list of translators, with references, constitutes the index.

The list under each author is wrietly obronological and makes no attempt to group together the various translations of each separate work, nor does the book set out to be anything more than a simple compilation from the standard works of reference. On this plane the only criticism to be arged against it is that it might have been better to set out reprints in their proper chromological places rather than in a note subjoined to the entry of the original edition, at any rate in the case of translations up to 1800. number of separate translations for the whole period works out at 1,280, which when remforced by their 875 repaints gives a grand lotal of 2,164 additions. Of these, however, im less than 1,181 were issued during the amoteenth century. An interesting chart illustrates the development of translation by decades. A small but stonly growth up to 1640 is brought anddenly down after that date by the adverse conditions of the Civil War. From 1650 the curve rises once more to 1720, the year of the completion of Popu's Hierd, and then another decline sees in lasting twenty years. From 1740 to 1780 there is another fairly steady rise, then a darline to 1800, ascribed by Professor Foster to the exhaustion of the non-damic impulse, after which we get a rapid increase from 28 men translations in 1801-10 to 55 in 1821-30, and 59 in 1841-50. Prom about 1800 the stream, swelled by Bolu's Classical Library and a multitude of "crits," rises to a forrent, the number of whiteen happing up from 120 in 1861-70 to 240 to each of the last two decades of the century. A table showing statistics of the translations seconding to subjects for each half-century after 1500 affords whiteness of the changing taits of successive generations. Up to 1800 philosophy is an easy first, though history, fable and spic marries to divide the honours with it between 1600 and 1650, whereas drams makes little show I the first translation of Asserbylas in the list is artually as late as 1747, and Souhorles, Euripides and Aristophanas fare scarcely better. But with the start of the misstoemth contary the supremacy of drama soon becomes overwhelming, although it was apparently being once more seriously challenged by philosophy from 1906 onwards

The Dream in Homer and Greek Tragedy. By William Strang Missie, Ph.D. Pp viii + 105. New York : Columbia University Press, 1918.

In this Book Dr. Msser, whose hobby is the study of the dream in all its aspects, literary and non-interary, subjects to a detailed analysis every passage in the Homerspoems and the three tragedians desiring with dreams, or dreaming. Dr. Messer is widely real in all branches of his subject, and his examination contains much that is interesting. The instances in which a disam plays an important part are compensatively low, and the only one which can be said really to dominate the artistic or in my of the poem containing it is that of Atossa in the Persec; nevertheless, it is very pleasant to fallow Dr., Messar in tracing the moreovice elaborations and remoments which the draun-davice undersent after Homes had made a beginning with the guiletel dream sour by Zons to Agamesunon (Rind H. L. ff.). That dream, as Dr. Moraer points out, outrages at all points the canons of dreaming laid down by Professor Frend, inasmuch as it is entirely objective and personal . . committed and portrayed as an external multy, with power of moving, thinking and speaking, like to any hurald sent by the gods, a gengine dream daimon. By the time of Europhus, literary dreaming had become a much more diaborate and scientific affair. The delegal ssen by Iphigenia (Iph. Town, 45 ft.) is not only susceptible of additionan into four episodes at the hands of Dr. Messur but falls in quote remarkably with the Freudian timory that dreams always represent the fulfillment of a wish, and that the wish is generally an infantile one. It is Accomplisa, however, and not Euripides, whose dreams are the most protically impressive of all, while Sophocies, if the extant plays are a safe criterion, employed the dream device but -parrogly.

Love, Worship and Death Some Renderings from the Greek Anthology,

By Sie Resweit Rose. A new and enlarged edition. Pp. rx + 129. London:

Edward Aynold, 1919.

This book, which first appeared in 1916, is now divided in two parts, the first containing a general selection of apigrams, the second devoted to translations from Sapplio, Firmus and other women poets. Some of the versions are quite nearly turned, but as a whole they lack distinction and force.

The Greek Theater and its Drama. By Rox C. Filcanora. Pp. saviii + 358. Chicago: The University of Chicago Press, 1918. 3 dollars not.

Mr. Flickinger hopes for a great revival of popular interest in the drama on the raturn of peace. But he solemnly warns us that such an interest "has little to monment it if is he munificated 'by attempts at playwriting on the part of those without training experience, or natural aptitude.' He does not explain how natural aptitude may be tosted without writing. 'On the other hand, he tells us, 'nothing can be more wholesome than a wilespread knowledge of the critis, history, and basic principles of tracedy and country. He is, in fast, somewhat deficient in humour. Indeed, at the head of a quite competent chapter on theatried records, he has thought fit to inscribe the words 'Footprints on the saude of time. Longfellow.' He apologisss with laborious conscientioneness for his temerity in differing from a certain Mr. Spingara, whose seesthetic theory forbids a critic to concern himself with the influence of material theatrical conditions on a play. He bowdlerism the very vasca which he reproduces for the purpose of instructing us on the appearance of tirrok comic actors (pp. 46-47, notes). He is capable of additions Mr. Sutro as a parallel to the Grook tragediane; nor does be seem to realise that Mr. Sutro's habit of arranging all the exits and the entrances before he begins to write his dialogue, is part of Mr. Sutro's tendency to write machine made, wooden plays.

Yer the discorning render will pass over these absordifies with an indiagent smile, and will find in this same book much solid learning and many just observations. After a discours on the origin of tragedy and council (pp. 1-56), and an account, advaned with excellent illustrations, of the structural history of the ancient illustration (pp. 57-117), the outhor deals at length with the influence on Greek drama of what he calls convironment in the breadest same of the term. He sate out to show how the technique of the drama was affected by its religious origin, its choral origin, actors, is direct struggeneous, and appeared conditions, i.e., the size and structure of the theatre. Under this last heading be discussed the so-called 'mutics. There is a chapter, for too slight, on the influence of quitonal ensteads and bless, a chapter on the string nucleonry and conventions, and

finally the very amful many in thestrical records.

Mt. Flinkinger regards tragedy and the satyric drams = independent developments of the Polopounssian dirlyramb. Tragedy, be thinks, came to Athens by Ilaria, from Corinth, where Aron composed the first "drams," and from Sieyen, where the nesses trages was find used. Satyria drams was imported later by Pratimas from Philins, that author dichs elessly to the amount literary tradition; and this we hold to be a negit. It is of great advantage for the student to have a clear exposition of the bestimores, and a sober estimate of their content. But the result is negative. After all his argument, Mr. Flinkinger is found assuring us that "the general effect of Bacchylides Theoryment have been much the same as that of a performance of Aron. The truth is we do not know what Arion's performances were like. Mr. Flickinger dose has then Justim to theories based on ritual, especially on the cult of the dead. Whatever may have been the mature of Aron a dithyrumb, it is certain that Aeschyion derived both matter and technique from the sult of herees, so that anyone who is investigating the origin—or, is

we prefer to say, the origins—of his tragic art must take that cult into account. Complicated products of the human mind, like tragedy, have twenty thousand origins not one.

The section on the structure of the uncient theatre will be welconsed even by those who cannot share Mr. Flickinger's unthusiasm for Dorpfeld. One of the best things in the book is the account (pp. 88 ff.) of the scenic arrangements of the Freys. Here Mr. Flickinger uses imagination on a set of well ascertained facts, and the result is illuminating. In view of this excellent reconstruction, and of the author's sensible remarks on the pursuit of Orestes by the Eumanides (p. 247), we are surprised that he should repeat the old unimaginative talk (p. 66) about a scene-building 'capable of being

resulty rebuilt or remodelled to meet the sceme requirements of each drama."

In dealing with the influence of chural origin the author is too much occupied with the notion that the chorus was a nuisance which the dramatist had to subline by various devices to the purpose of his art. He would have produced more illuminating results if he had started by considering the aims and muthods of choral lyric in its non-dramatic stage, and your on to analyse the effects for which the dramatists actually use their charge, rather than the daviers by which they circumvented difficulties. A study of Pindar's technique would purhaps have shown him that Sophoclas has not been quilty of irrelarance in Antigone 1115 ff . . Compare this ode with the proceeding ode [944 ff.), and you will discover the lyrical connexion between Somele, Antigone and Danae, and between Creon and Lycungus. Look at O.T. 200 ff., and yes will understand that Dianysm is appropriately invoked as a Theban god to banish postileure. In both plays there is significance in the connexion between Dionysus and Apollo of Delphi. In both, the dramatic sequal is suin instead of calcution. Similarly, a student of lyrical technique will see dramatic relevance in the description of Persons with the Gorgon's head, romantic type of Orestes, in Eur. El. 434 where Mr. Flickinger sees nothing but a tailure of Europedon. Evon Demeter's search for her desigliter in the Helmar (1301) is relevant by Greek stamlards. At the ontset Halon invoked Persephone (175), and Helen harself was smatched away when sine was cathering flowers (243). But Mr. Flinkinger is not the only critic who ignores these exquisite details and talks of the Demeter ode as so arrelovant that many have thought it an interpolation." Similar critisisms are suggested by Mr. Finkinger's treatment of other topics. Much is said, for instance, of the limitations imposed by the small number of mitors. What is more important is the effect that the dramatists in fact produced. There is a hint of what we want in the remark that the third actor made it possible to show "the varied smothins which one actor's statements or conduct produce in the two others.' But it is only a hint, and is not developed.

We hope Mr. Flickinger will accept our criticism as evidence of the interest with winch we have read his book. We have criticised is because we hope that it is not his lost our his best work.

I. T. S.

A Handbook of Attic Red-Figured Vases, Signed by or Attributed to the Various Masters of the Sixth and Fifth Century, B.C. Vol. I. By Joseph Chark Hoppin, Cambridge: Harvard University Press, 1919.

In publishing this book Dr. Hoppin has rendered a great service to the study of rese-painting. The book is a record of both fact and opinion, for basides a list of the vases commented by signature and style with such painter and potter, it contains a very complete set of references: necessary signed rate is illustrated except above an illustration proved anottainable. As Klain's Metalessynatures and Nicoles similar publication in Revis Archeologique, 1916, were occupied only with matalogating vesse by painters who signed their name, this is the first such record that has been published, and similarity indicates to its author for the saving of much time and labour.

Potters and printers are arranged alphabetically, the latter including nameless pairners who have been distinguished by the character of their work, provided a

nickname has been given them. This, the first volume, takes us as far as Beariey's Trainter of the Girgenti Calyx-Krater.' Vases also are arranged alphabethally according to museums, with a supplementary index of shapes and subjects. A really consistent describation would, of course, only be obtainable if all cases could be listed under their painters and cross references given under the potters' names; since our ignorance of many of the painters makes this impossible, some form of compromise must be adopted. That chosen by Dr. Hoppin is as follows: a wass signed by both painter and potter is described under the painter: a vase signed by a patter and stributed to a painter is described under the potter. To make more clear its connection with the painter of potter in whose list it is not described, it might have been numbered with a cross reference among his works, even though this should sacribes the principle of numbering no vase more than once.

The chronological arrangement is broken in the case of Onesimos and the Pannition Painter, who are included in Volume 1, in order that they may appear immediately after their potter Euphronies; there is, however, scarcely adequate reason way the simployees

of this one workshop should be grouped together.

Another inevitable difficulty lies in the fact that a book which is an impartial record of opinion must necessarily record opinion of a somewhat misleading kind: in particular it cannot avoid the inaccuracy of attributing a vase to a potter whom meaning the artist who worked for him. In some cases this matters less, for an attribution to 'Brygos' may stand for an attribution to the Brygos painter, but whom we hear of reason assigned to Eurithess we should be gratished for a note explaining why the cap Leavise G-34 was given to him rather than to his painter Oltos, and warning us as to the nature of the two stributions which follow. The author himself leaves a slightly confused impression where he says, with regard to Chachrylian, 'It is quite possible that the various signed cases are the work of several different bands,' and proceeds to discuss, without defining. 'The Chachrylian painter.'

With the vases catalogues under their painters it is a more may matter. The list of attributed vases are very comprehensive and of great use , where the same rese has been attributed to more than one pointer. Dr. Hoppin uses his own discretion in choosing where it shall be placed, and we welcome this as one of the few occasions on which he may express his own views. Among the anonymous painters the majority country of the newly described in Bentley's Attic Ries Figurest Versa in American Africans Each race is accompanied by an excellent bibliography which sould only have been improved if the authorities responsible for attributions had been indicated in every case merced of only or particular cases. An illuminating account of how the study of

red figured vases has developed will be found in the introduction.

No paint have been specied to make the illustrations as complete as war conditions would allow, and we are indebted to Dr. Hoppin for publishing several cases for the first time; among those are the ketyle by Epiktetes in the British Museum, the Epikteros kylis in the Leaves (C-0), with an interesting border round the interior, and the Gales lekyrhes in Baston. Individually the illustrations are of unequal value; while many are from photographs and from the best reproductions, some could only be obtained from reproductions of an infurior nature. Collectively they are invaluable, and had the best dam so more than illustrate the series of aigned vaces it would have applied one used to which we had become hopelessly resigned.

A Handbook of Greek Vase Painting. By Many A. B. Henrons, M.A. pp. 231 + 125, 11 phies, 21 figures in text. [Publications of the University of Manchester, No. CXXII.] Manchester University Press Longmans, Green & Co., 1919. Sc. 66 net.

The production of a handlook both compact and readable is something of a problem, and Miss Herford may be congratulated on its solution. The book is principally an

introduction to Greek vases destined both for the non-archaeological reader and for the student who may one day be a specialist; parts, indeed will interest or please those to whom the study is already familiar. That it should appeal to the two, and even the three classes, though occasionally at unusual expense, is due to the fact that it gives first place to what is their common measure, the artistic development of vase-pointing. This does not mean that it excludes the sechnical aspects of the subject, for the tirst part of the book gives descriptions of the various shapes and their employment, and one of the most head accounts of the manufacture and description of red-figure same as have read; nor does it exclude industrial questions, for which there is a certain partiality, such as the expect trade and the status of potters. The second or historical part is, however, very definitely a history of pointing rather than of pottery.

The sariier waves are treated with special reference to the origin, evolution, and significance of their communitation. This cannot fail to be interesting, but has the discrivantage that the confer, fascinated by the process of development, may fail to get a distinct idea of the fabric discif and the qualities that make it recognisable. Applied to the sed-figure style, the method is particularly successful; there is little attempt to introduce the works of cody artist, which in a book of this size would only be confusing, but the better known artists appear as representatives of the several inavenents, which are atmirably described in sections on the drawing of the body and of drapery, the use of thinned variable for colouring and texture, etc. The attribution on p. 85 of a Judgment of Paris to the Brygos painter, presumably the kylix G151 in the Louvre, is notewortly because contrary to general opinion. Any fresh discussion of black-figure vaso-painting is velcome at the present time: a special point is here made of the influence, possibly somewhat overrated, of Chalentian on Attic, and the perfecting of the various types of vase.

It is to be regretted that there is no mention of Rosenian pottery, whose permittency entities it to a place in a book where national tendency is considered, and whose solitary success in the field of carriature is important for its own sake, and as a contract to the Aria realism noticest on p. 97. On the other hand, the dominant of Cyprus in a very short paragraph is consistent with the plan of the book, but unfortunate in view of the abiquity of its warre.

With regard to the illustrations; it is assumed that the reader has access to some such work as Walters History of Ancient Pattery for the classic examples of each group, and Miss Herford is therefore free to describe without illustrating servain of the more famous visus and to illustrate many classes by their less well known examples. Nearly four-fittles of the piates are devoted to Attic red-figure vases; here again, the principle is not to give the chief paintings of each artist, but suther to choose what is characteristic of a style. The places are on the whole excellent, and include some fresh publications.

A tendency is sarrifles description to commentary is perhaps the most obvious fault. As it is no more commany of facts, the book can afford to be in many ways arbitrary as to what it amplifies and what it cours, but we would have exchanged an excursus, such as that on the disping of divine statues, for fuller information, for instance, on the earlier period. None the loss, Miss Herford's contribution is most valuable, both because it meets a want, and because it possesses individuality, a quality rare in handbooks.

Folk-Lore in the Old Testament. By Sm J. G. Frazen. 3 vols. London: Macmillan & Co., 1919. 37s. 6d.

In these three volumes Sir James Frazer has collected in the manner with which we are familiar in his works every known legend and piece of folk-logs from all parts of the earth which will illustrate and, to some extent, explain the many survivals of primitive belief which are emphrised in the Old Testament. Beginning with the Hebres legends of the Creation, the Fall of Man, the Flood, the Tower of Babel, and their Babylonian originals and congeners in all other lands, he goes on to the Covenant of Abraham, Samson and Delilah, etc., and by his exhaustive method of comparison salightens

us not a little as to the universality of such stories in the mind of primitive man. There is hardly a but of Helsew folk-lose that is not abundantly parallelad absorbers. Primitive man reasons and speculates alike all over the world. In reading one may, of course, weary a little of the endless repetition of the customs of manmerable primitive tribes if one is not a comparative anthropologist : a little goes a long way to prove the point. But Sir James France sime at giving on everything, and here is the mine into which all who are interested may dip if they are only so far inclined, or in which they may labour if they aim at knowing everything that is to be known on the subject. To all students of the Old Testament and all commentators thereon these volumes are indispensable, and many less scientific readers will gain from their study a new light as to the meaning of what they read in the Habrew scriptures. Greak parallels, e.g., the story of Dankalion's flood, are by no means wanting. This tradition of some primitive flood in Thessaly, and Chinese traditions of floods, which are andemic in the valley of the Hwang-ho, are to be clearly distinguished from such a story as that of the Babyleman flood (equally natural in the hand of the Two Rivers), which is demonstrably the actual original of the Hebrew tradition. What culture the primitive Hebrews had was naturally of Babylonian origin.

Itsuling with the Tower of Batad, E-tenamon-lif, the tample of Entil at Babylon (which is not the same building as the mound of Batal, with which Sir James appears to confine it; vol. 1, p. 360), is no doubt Heredotae's Tomple of Batas, but that either this or the mighty ziggman of Borsippa (Birs Nimrad) is the actual original of the Biblical tower can hardly be proved. The tale is a record of the impression made on the minds of the primitive Hebreve by the scuring temple towers of Babylonia, the usual mixture of sconder, envy, and thoroughly many forting which the childish barbarian feels when he sees or heave of the great works of a superior race. And it was naturally given a house at Babylon itself. Actually E-temple-on-ki was not very big, as ziggurate go! Birs Nimrad is far greater, and as the most prominent landmark in the neighbourhood of Babylon has manifely been identified not only in modern Jewish, but also in modern British military tradition as the Tower of Babel itself. Sir James Frazer is no doubt right in accepting the late Prof. King's criticism of Koldewey's popular supposition that E-teman-an ki had only one stage instead of the several which Herodotae apparently are with his own eyes.

Sylloge Inscriptionum Grascarum a Generale Divisional comita et aucta nunc tertion edita. Vol. 11. Lipsion: apud S. Hirmburn, 1917.

The first volume of this classic of apigraphical research was noticed in J.H.S. xxxvii. p. 187, where will be found a general account of the new edition and its distinctive features. The second follows it at an interval of two years and contains the historical documents from the Peace of Naupautus (217-6 a.c.,) to the close of the Roman period, 405 in number. In the second edition the heading Actor Romans (beginning in 146 s.c.) oversed 115 texts; it is now subdivided, and we have 92 inscriptions belonging to the parted 140-31 a.c. and 172 dating from Imperial times. This leaves 141 texts dated in the first seventy years overed by the volume : again, however, there are a number of inscriptions carried forward from later sections, and in order to give as full a compectua se possible of the historical documents of the time in their chronological order, unnumbered references to the Ocientis General Inscriptions are inserted. It is not always easy to see why inscriptions which in the second edition were classed with those illustrating public, religious and private antiquities have been transferred to the instoriest section; for it is not necessarily processly dated texts which are so treated, e.g. No. 504 in ed. 2, which appears as No. 899 in ed. 3, and several inscriptions which it would seem more natural to class with those illustrating ver secree have been brought over, e.g. Nov. 650 and 667 in the second edition, new New. 540, 997. The Delphic inscriptions which record the sending of Athenian Gregoria to various flewaides, sgain, are of religious eather than historical interest. But Pemties, who is responsible for Delphi's contribution to the volume, was evidently allowed a free hand. and has pernied a great deal of material which might have been reduced in bulk by subsction.

For the sake of completeness be includes (and rightly) some Latin inscriptions, such as that on the base of the monument of L. Asseilius Paulus.

The historical interest of this volume is of course not equal to that of the first, although it is an excellent thing that the study of the later Hellenistic period, hitherto semiswhat neglected, should be made easier: and the third volume, which will in some respects be the most interesting of all, is yet to come. There is no indication that this is to be followed as report run) by a collection of metrical inscriptions to raplace Kaibal's Epigranamato Grama.

The effting, it much herdly be said, maintains the standard which we expect of the Solloge; but we do not think that Dittenberger would have been guilty of fulgus (note on No. 623): There is little, however, to criticisa. Pomtow placed the inscription which records the equipotersh of Shiris and Medicin (No. 647) in 175 n.c. or thereabouts, but afterwards altered his spinion and thinks that it should be dated forcy years later. His argument from a reconstructed pedigree seems inconclusive. In the commentary on No. 611 Surpassia is explained by Sanahausbert, enhanchert, with a reference to No. 521 (in Vol. L.) Is abould be observed that the proper meaning of this word is not to perish, but to be lacking, full to envergonal with the total or roll. The LXX examples, superially Numb. 31, 40 and I Sam. 30, 19, as well as the metaphorical mes, make this quite clear. That the enveys mentioned in the inscription fell into the hunds of pirates whitely enough, hat what is expressed is the fact of their disappearance, not their dusth. Further parallele to the Acalemanians recorded in the mote on No. 806 Hagane of rivelyes s.T.A. may be found in P.Oxy. 41, as well as 1413 (which was not accessable to the editor). We unto that Hiller van Gärtringen (Nos. 693, 679, 690) is careful to give the needful refereness to Mr. Tod's Greek Arbitration, which Pointow seems to have overlooked (Nos. 546, 614). The Dryantianus manual in No. 885 must sarely be connected with the family which later furnished a presenter to the purple with a wife, Sulpicia Dryantilla. see L.G.R. 4. 500. (The later parts of LG.R., by the way, did not much the editors.)

(i) A Handbook of Antique Prose-rhythm. Vol I., pp. 228. 1918. (2) De Numero Orstorio Latino Commentatio. Pp. 52. 1919. By A. W. Da Gaoor, Litt D., Conservator of the Library of the University of Groningen. Groningen, The Hague: J. B. Wolfers.

In these two treatises we have an ambitious attempt to solve the problem of prese rhythm (or press metre, as the author says it should properly be called) on new lines, Dr. De firsted our humself admit both from ancient authority and from the methods of modern research. The results arrived at by Zielinski, for example, he regards as built on said. That Zielinski records facts named be doubted; but facts often assume a new aspect when regarded from a new point of view, i.e. in relation to other facts. I have much approachly with the writer's contention that the clausals should be scanned as part of the sentence. The results of divorcing its rhythm from the rhythm of what proceeds it were pointed out in my review of Zielinski's latest work. For example, take a familiar expression like Quo me certain assiste. What the natural rhythm (or metro) of those words is may be seen from a line of Pianton—say Core. 60 (an iambie senarius):

Quod si non affert, quo me vortam neseio.

The last four words have trochaic rhythm (after the cassure)—a rhythm indicated both by the quantities and by the accents: £_£_£_£_£. But when they appear at the and of a sourcers in Circro Zielinski treats them as containing the "clausula" _____ = ____, a double crotic (µ. 32 and p. 100). This strange result is arrived at by treating the word you as no part of the "clausula" and ignoring accents in the next two words.

mentioned in the hibliography of the Handbook p. 217); but it is quoted in De Num. Orar, p. 30.

¹ Der Constructive Ehythmus in Ciceros Roles (Supplamenthumi xiii., Heft 1, of Philologue, 1914), reclewed in The Year's Work for 1914, pp. 61-55. This work is not

statement on p. 37 that this sequence emptys considerable favour in Circu.

The tabulated statement just referred to is De Groot's chief contribution to the problem of press rigthm. In order to find a scenze basis of operations he estalogues 128 combinations of long and short syllables, these being all the possible combinations to be found in seven syllables (2" = 128), and to each series be adds an nighth syllable of indifferent quantity. Why exactly seven syllables are taken for experimenting on is not stated.1 The first sequence is contained the second account to the third ---- and so on. And figures are given to show how often each segmence appears in certain authors—both in the sentence as a whole and in the clausula. For Greek authors see Handhood, pp. 178-181; for Latin authors De Nues. Ocal., pp. 36-38. Here we have an objective basis of facts-facts, however, which require interpretation before we can proceed to inferences as to rhythm. On this equits operand; I have two further remarks to make : (1) The mather entirely ignores punctuation, in order to avoid "the subjective factor" (H., p. 165). No death jumetuation differs consularity in different editions of the same text. But to ignore the parses which practuation is intended to indicate is to rush from the frying pan into the fire. Nor did I think that this danger is eliminated by the fact mentioned by De Green that it is not more unfair to one author than to another. For if a sequence is broken into two by a stop, we have really not one squenze but two. (2) I have tried to check the author's figures at line point, and I find my results only partially in agreement with his. On p. 2 of the Handhook his gives this number of times that the pyrrhic . Je the amphibmeh . _ .. and ___ and other groups appear in the first 1000 syllables of the far book of Thucydides and of Phnarch's Life of Pyrrhus. Anyone can tee these figures for himself. The discrepancies between De Groot's ligures and mine must be due either to some difference of promotical principle for to a different way of counting up the several fort.

The English of the Handbook is semetimes clumsy; it is a translation. And it is sometimes observe. I cannot, for instance, understand the statement on p. 75 (lines 3-5), which means accommotent with what is said on the previous page. There are a good many masquints, only some of which are corrected in the list of errain.

On the whole, then, while wishing the author success in the further stages of his inborious undertaking. I his litate to express approval of his methods or results, so far as I understand them.

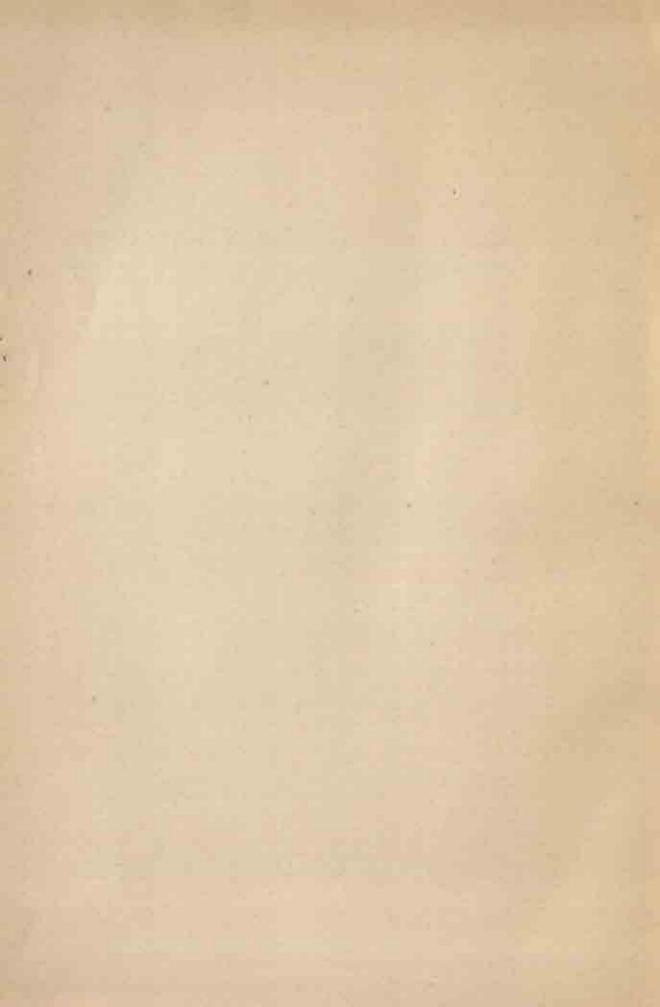
E. A. S.

I do p. 18 we could 'On practical grounds I took 7, and added—the reason will be explained later on—an signific I have not

succeeded in finding this 'later on' passage.

" the p 1s of the Handbook Arexans is manual as a ...

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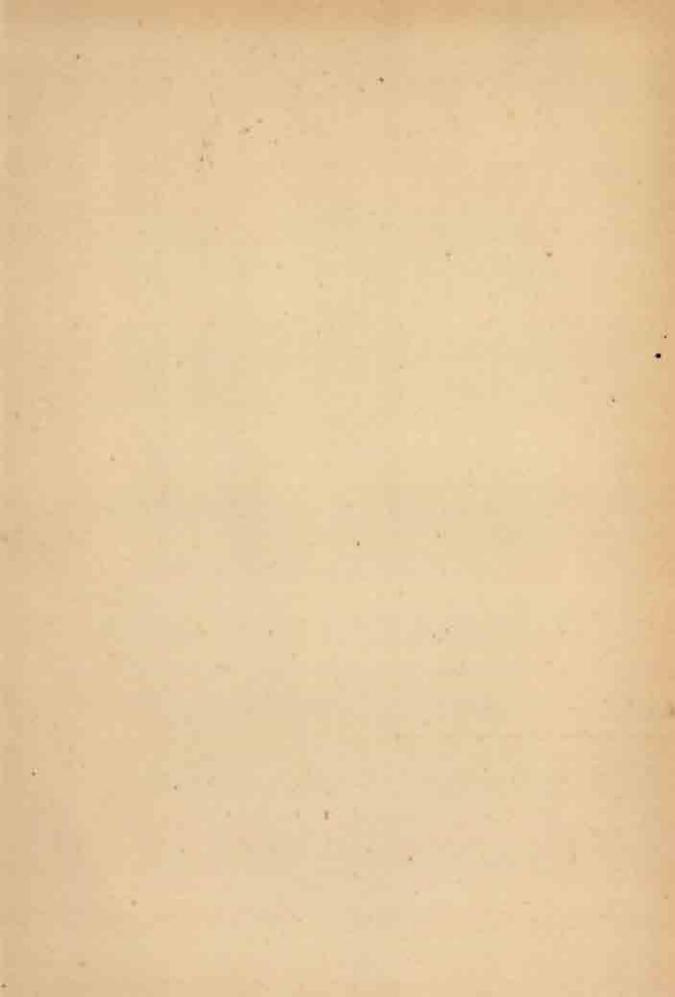






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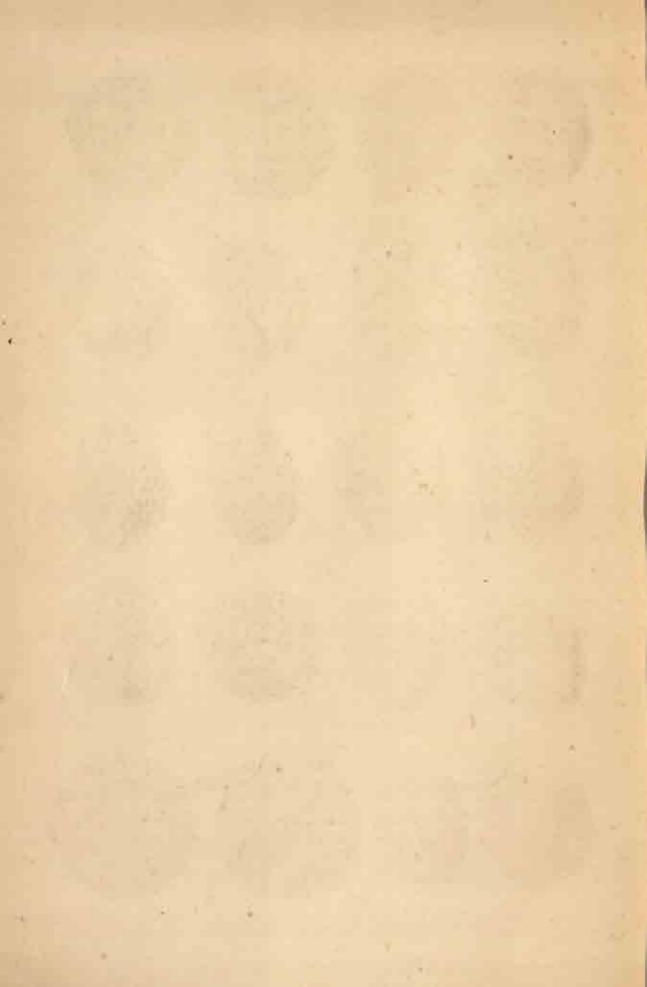


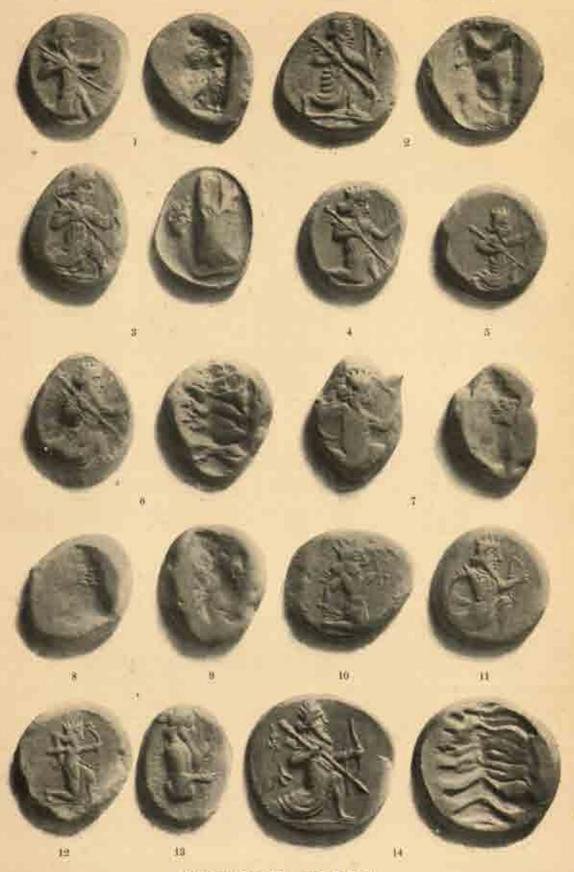


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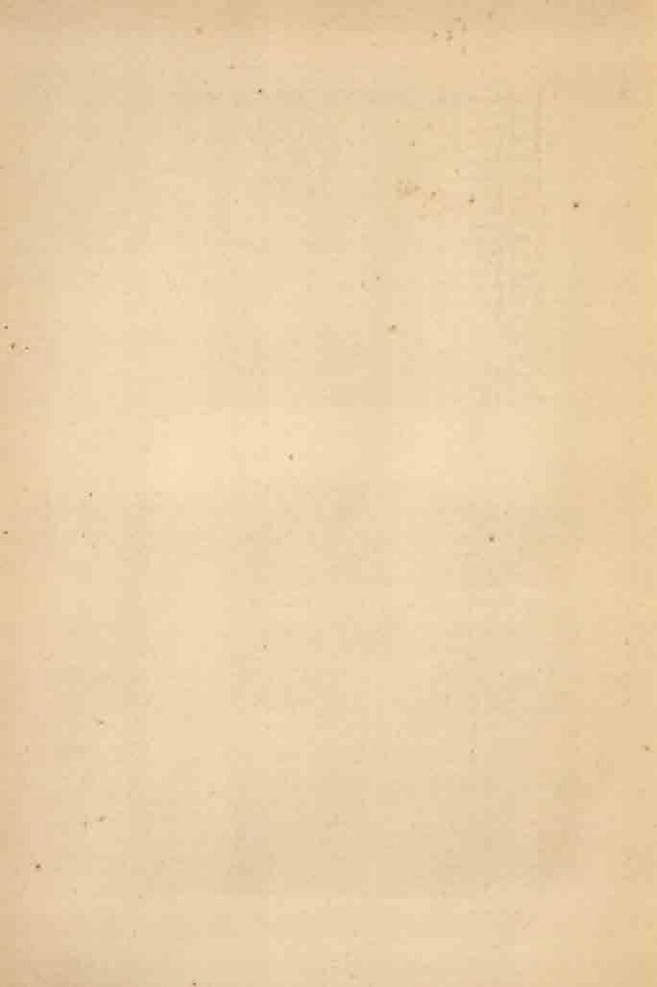


BOSPORAN COINS.



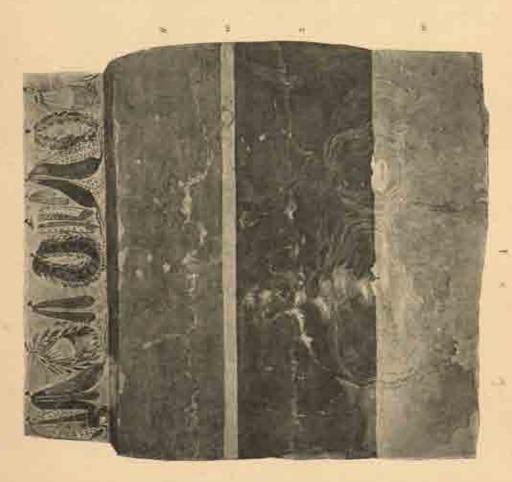


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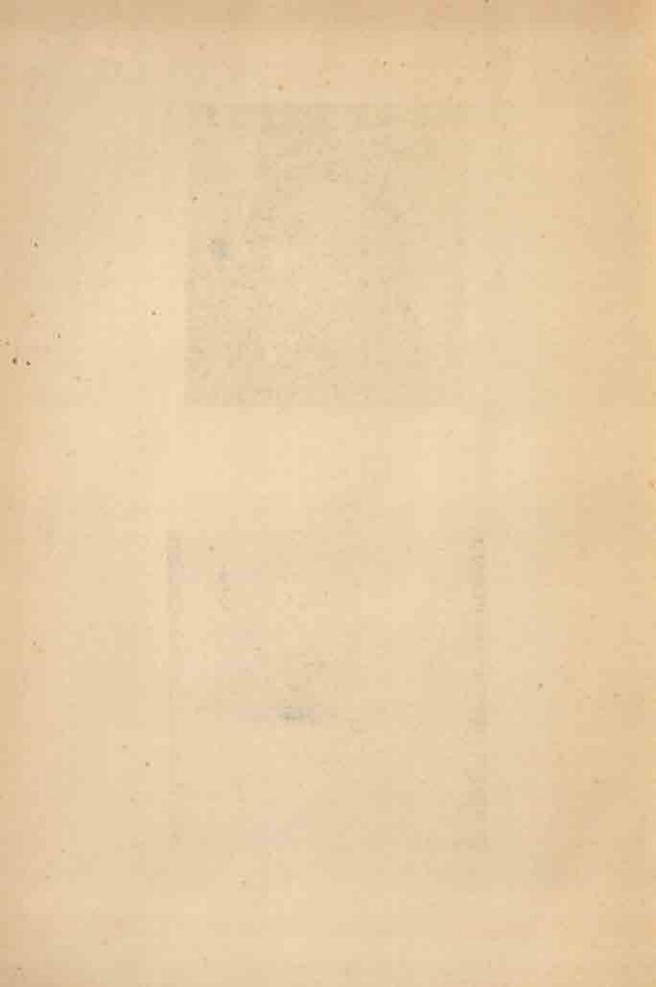




PART OF A PAINTED WALL IN PANTIKAPAION



PART OF A PAINTED WALL IN A VAULT DISCOVERED AT
PANTIKAPAION IN 1808
[Rohtsvereen, f.d.p.S.R. Pt. XXVI.]

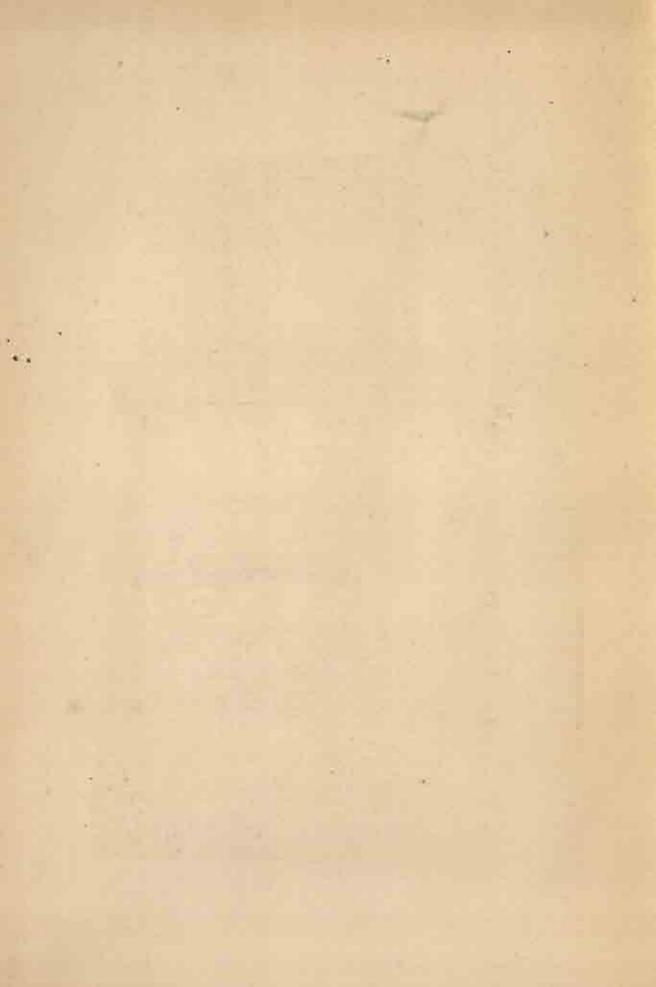


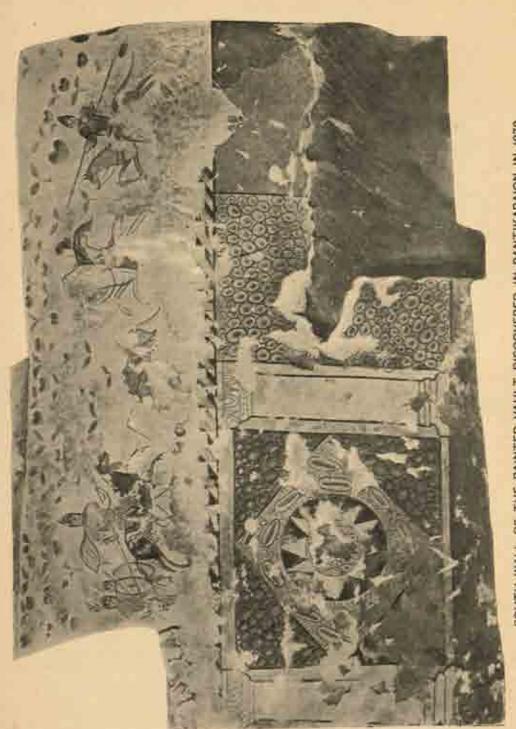


HEAD OF KORE IN THE VAULT OF THE TUMULUS BOLSHAJA-BLISNITZA (TAMAN) (Rostovtteit, A.d.p.S.N. Pt. VIII.)

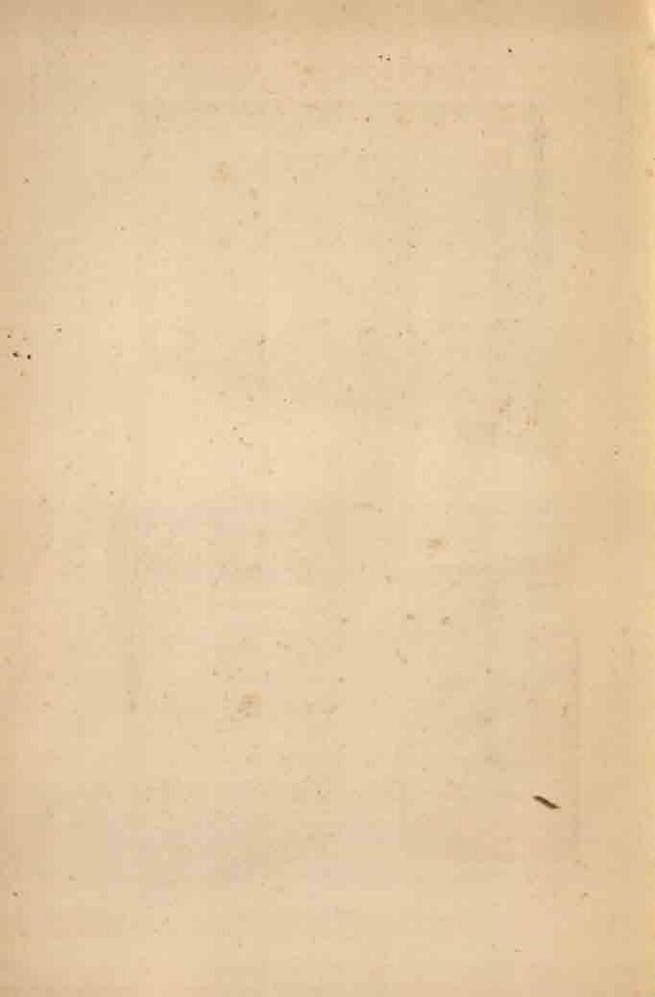


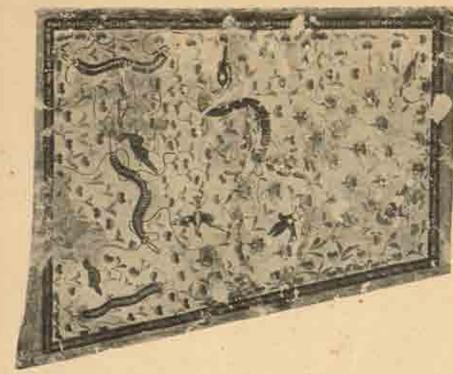
PAINTED CEILING IN THE VAULT DISCOVERED IN PANTIKAPAION IN 1895
(ROTTOTATE, A.A.P.K.R. Pt. LVII.)

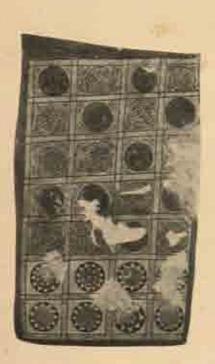


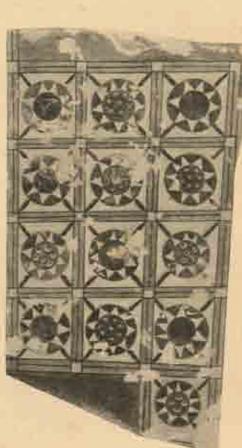


SOUTH WALL OF THE PAINTED VAULT DISCOVERED IN PANTIKAPAION IN 1872 (Rentoltant), A. J. D. LXXIX.)

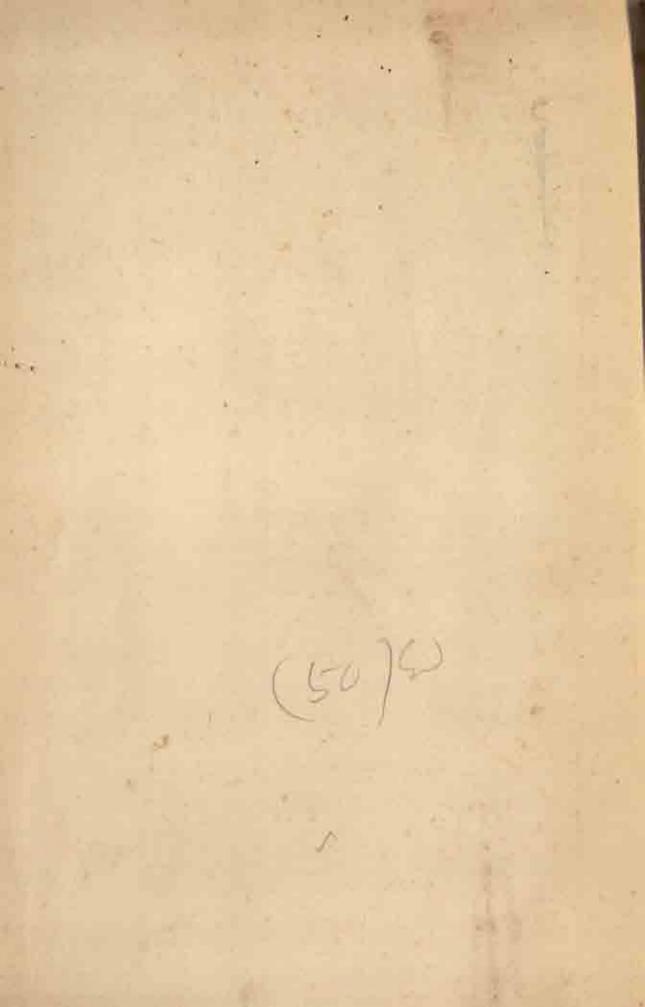


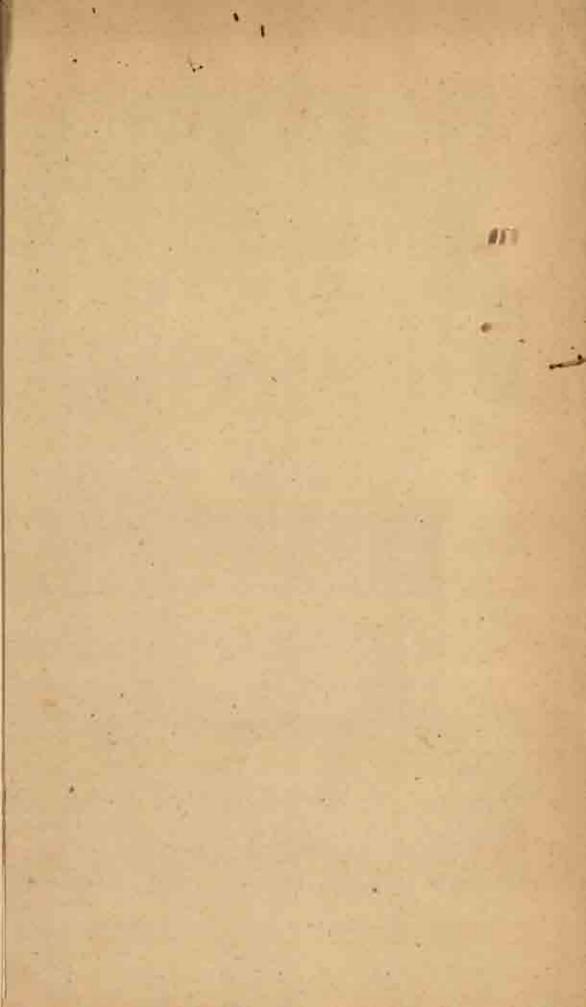






PAINTED CEILING IN THE VAULT DISCOVERED IN PANTIKAPAION IN 1872 (Representation, 1.4) of Pa. LXXXI 1, and LXXXII 3 and 1)







"A book that is shut is but a block"

A hook that is an Archaeology Department of Archaeology Telepartment of Archaeology Te

Please help us to keep the book clean and moving.

D. F. LEE, S. SERBL.