

ANNUAL GENERAL MEETING.

FEBRUARY 5TH, 1897.

E. T. NEWTON, F.R.S., President, in the Chair.

Messrs. G. E. Dibley and H. S. Kennard were appointed Scrutineers of the ballot.

The following Report of the Council for the year 1896 was then read :—

THE numerical strength of the Association on the 31st of December, 1896, was as follows :—

Honorary Members	15
Ordinary Members—	
<i>a.</i> Life Members (Compounded)	163
<i>b.</i> Old Country Members (5s. Annual Subscription)	7
<i>c.</i> Other Members (10s. Annual Subscription)	348
	<hr/>
Total	533

During the year thirty new members were elected, of whom two subsequently withdrew. The Council regrets that the Association lost seven members by death : Sir Joseph Prestwich, Prof. A. H. Green, Capt. Marshall Hall, Wm. Brockbank, G. P. Cochrane, Dr. A. T. Brett, Miss E. Faust. Sir Joseph Prestwich, the Nestor of British geology, had been for ten years an honorary member of the Association ; although his advanced age prevented his attendance at your meetings, nevertheless many of you have pleasant recollections of visiting him at his hospitable home at Shoreham, near Sevenoaks, while he will be gratefully remembered by his bequest of a set of the Palæontographical Society's monographs to your Library. Prof. Green, who was for many years an officer of the Geological Survey, and afterwards succeeded Professor Prestwich as Professor of Geology at Oxford, will live in your memories chiefly by his Memoirs on the Yorkshire Coal-Field, and his *Physical Geology*, which will stand for all time as an able exposition of dynamical geology. Capt. Marshall Hall was a well-known figure at your meetings, and had but shortly before his death been labouring to collect information upon glacial geology, for which his long experience as an Alpine climber had especially fitted him. Dr. Brett was a most regular attendant at your excursions, especially the Long Excursion. His familiar form and voice, and kind, genial face will be much missed by his many friends.

MAY, 1897.]

GEOLOGISTS' ASSOCIATION.

Dr.

Income and Expenditure for the Year ending Dec. 31st, 1896.

Cr.

	£	s.	d.
To Balance from 1895	19	19	4
„ Life Compositions	25	10	0
„ Admission Fees	13	0	0
„ Annual Subscriptions (less ios. returned) ...	170	0	0
„ Dividends on Nottingham Corporation Stock ...	23	16	2
„ Sale of Publications	9	1	5
„ Sale of “Record”	4	4	0
„ Sale of “Paris Basin”	0	12	6
„ Advertisements	10	0	0
	£276	3	5

	£	s.	d.
By Printing “Proceedings” *	99	19	7
„ „ Monthly Circulars	16	9	9
„ Miscellaneous Printing	15	11	11
„ Illustrating “Proceedings” and Circulars ...	14	5	10
„ Postages	40	5	1
„ Addressing	6	12	0
„ Library	3	10	6
„ Attendance, Gas, Lantern, etc., at Evening Meetings	25	1	0
„ Excursions	9	17	5
„ Insurance	1	10	0
„ Stationery	4	11	4
„ Purchase of New Lantern	8	15	0
„ Miscellaneous Expenses	3	12	2
„ Balance at Bank of England, Dec. 31st, 1896... ..	26	1	10
	£276	3	5

* This does not include a sum of £17 16s. 8d. due to the Printers for the Index, etc., to Vol. XIV.

We have compared the above account with the vouchers and find it to be correct
 We have also verified the investment of £820 16s. 10d. Nottingham Corporation Stock.

January 13th, 1897.

A. E. SALTER,
 EDWARD JOHNSON, } *Auditors.*

The income of the Association for 1896, omitting that for the *Record of Excursions* and *Paris Basin*, was £251 7s. 7d., a slight increase on last year's figures, while the expenditure was £250 1s. 7d., which is considerably in excess of last year. This amount, however, includes the sum of £8 15s. for the purchase of the new lantern, which is really in the nature of an investment, and will, it is hoped, materially reduce next year the item of attendance, etc., in connection with the evening meetings, on which the principal increase in expenditure has taken place. This is due to the fact that the lantern was used on twice as many evenings as the year before, all of which, except one, were occasions before our new lantern came into use. It is believed, however, that these illustrative evenings are much appreciated, and, as has been pointed out, the expense will be much diminished by using our own apparatus in future. It will be seen that a sum of £17 16s. 8d. (which has since been paid) was due to the printers for the Index, etc., of Volume XIV. The balance carried forward, £26 1s. 10d., was more than enough to have paid this account if it had come in in time, but it was not as a matter of fact included in the estimates for 1896, as at the time they were prepared the Editor expected to bring out the new Index, etc., with Part I of the new volume.

During the year the usual five numbers of PROCEEDINGS have been published, consisting of 232 pages of text, with eleven plates and thirty-four other illustrations. You have to thank the authors contributing to your PROCEEDINGS, even more than usual, for enabling this exceptional number of plates to be published. You are indebted to your late President, General McMahon, for Plates VIII, IX, and X, illustrating his presidential address; to Mr. W. H. Hudleston for the map of India (Plate VII) and the other illustrations to his paper; to Mr. Monckton for Plate XI; and to Mr. Nicol Brown for the illustrations to his paper. With the November number were issued the Title-Pages, Contents, and Index to Vol. XIV, which is thus completed.

In addition to the before-mentioned bequest by Sir Joseph Prestwich of a complete set of the annual volumes of the monographs of the Palæontographical Society, the Library has continued to increase, mainly by the addition of the publications of other Societies. The long time during which the binding of serials was allowed to get into arrear has led to many of the sets becoming defective. Much of the arrear of binding has now been made up, and it is hoped that the generosity of other Societies will enable many of the defective sets to be completed.

A new catalogue of the books in the Library has been prepared, and will be printed shortly.

The fact that the Library of the Association is not, under present circumstances, as useful to the Members as it ought to be has long been felt by the Council. The authorities of University

College have always readily granted to the Association such facilities as are in their power, but it is impossible that, while the Library remains where it is, such constant access to the books can be obtained as can alone render the Library of real utility to the Members at large. With this aim in view, and with the object at the same time of retaining to the Association the property in and the control over their Library, Mr. George Potter, who was one of the Founders of the Association, and has devoted considerable attention to this subject, moved the Resolution printed below at a very full meeting of the Council on December 4th. The Resolution was seconded by Miss Raisin and carried unanimously, and was as follows :

“That the Trustees of the Geologists’ Association be empowered to enter into an agreement with the Public Library Commissioners of the Parish of St. Martin-in-the-Fields to deposit the Library of the Geologists’ Association for five years on loan in the Reference Library of the said Commissioners at Charing Cross ; the condition of such deposit being that the Members of the Association shall have the right of access to, and subject to the Library Regulations of the Association, of borrowing the books, pamphlets, etc., at any time that the Library of St. Martin is open to the public, the books, etc., being available for reference only to non-members of the Association ; and that an honorarium of a year be paid by the Association to the Librarian of St. Martin Public Library ; and that such agreement be renewed at the end of such period of five years, unless either party shall have given notice to the contrary twelve months before the expiration of such period.”

If the contemplated arrangement can be carried out, the central position of St. Martin, combined with the fact that the Library will be practically at all times accessible to the Members, will, it is thought, enable the Association for the first time to fully enjoy the use of their Library, while it will remain as much the property of the Association as hitherto.*

In the early days of the Association a small collection of geological interest was brought together, but as it was impossible to duly care for and attend to the specimens, your Council, acting under the old Byelaw xviii, removed in 1892 certain fragile specimens to the British Museum and to the Museum of Practical Geology. The remainder were stowed away again until 1894, when a report upon them was obtained and considered, and finally, in 1895, it was decided by the Council, that for the better preservation and usefulness of the specimens they should be presented to other institutions. This has now been accomplished, and a selection was first taken by the

* Such an agreement has been signed and sealed, and arrangements are now proceeding to carry it into effect.—[C. DAVIES SHERBORN, Hon. Sec., May 7th, 1897.]

authorities of University College; certain crinoids were selected by the British Museum, and the remaining specimens were given to the Whitechapel Free Library.

The following is a list of the papers read at the evening meetings:

- "On the Lake-basins of Lakeland," by J. E. MARR, F.R.S.
 "On some Structural Characters of the Granite of the Himalayas," being the address of the retiring President, GENERAL MCMAHON, F.G.S.
 "Pebbly Gravel from Goring Gap to the Norfolk Coast," by A. E. SALTER, B.Sc., F.G.S.
 "Some Pleistocene Ostracoda from Fulham," by FREDK. CHAPMAN, F.R.M.S.
 "On the Physical Geology of Purbeck," by AUBREY STRAHAN, F.G.S.
 "On the Brachiopoda of the Skiddaw Slates," by J. POSTLETHWAITE, F.G.S.
 "On the Palæozoic Rocks of West Somerset and North Devon," by Dr. HENRY HICKS, F.R.S., Pres. G.S., with an appendix "On the Fossils of the District," by Rev. G. F. WHIDBORNE, F.G.S.
 "Notes on the Trias, Rhætic, and Lias of West Somerset," by the Rev. H. H. WINWOOD, F.G.S.
 "On the Foraminifera of the Thanet Sand of Pegwell Bay," by H. W. BURROWS, A.R.I.B.A., and RICHARD HOLLAND.

A lecture was delivered by Prof. JOHN MILNE, F.R.S., on "Bradysesisms, Earthquakes, and other Movements of the Earth's Crust," on June 5th; and a demonstration with the lantern was given on April 10th by W. F. GWINNELL, F.G.S. and HENRY PRESTON, F.G.S., of photographs taken during the excursions of the Association.

Your thanks are due to all these gentlemen.

A conversazione was held in November, when many objects of geological interest were exhibited by members of the Association. A full account will be found in the PROCEEDINGS.

The following Museums were visited in 1896:

- March 14th.—The Geological Galleries of the British Museum (Natural History), Cromwell Road, when a demonstration on Fossil Fishes was given by Mr. A. SMITH WOODWARD, F.L.S., F.G.S.
 May 9th.—The Chingford Museum, at Queen Elizabeth's Hunting Lodge, Chingford.
 June 13th.—The Reading Museum.
 July 26th.—The Museum of the Somersetshire Archæological and Natural History Society.

The following is a list of the excursions made during the past year. Detailed reports will be found in parts 8 and 10 of the PROCEEDINGS, vol xiv:

DATE.	PLACE.	DIRECTORS.
March 28th.	Galley Hill, near Northfleet, and Swanscomb Hill.	The President (E. T. Newton, F.R.S.), F. C. J. Spurrell, F.G.S., and H. Stopes.
April 3rd to 7th (Easter).	Swanage, Corfe Castle, Kimeridge, etc.	W. H. Huddleston, F.R.S., Rev. Owen L. Mansel, and H. W. Monckton, F.G.S.

DATE.	PLACE.	DIRECTORS.
April 18th.	The Zoological Gardens.	The President (E. T. Newton, F.R.S.), and F. E. Beddard, F.R.S.
April 25th.	Hendon.	H. Hicks, M.D., F.R.S., Pres. Geol. Soc.
May 2nd (whole day). May 9th.	Dorking and Leith Hill. Chingford and Epping Forest.	Thos. Leighton, F.G.S. T. V. Holmes, F.G.S.
May 23rd to 26th (Whitsuntide).	Chippenham, Kellaways, Calne and Corsham.	Rev. H. H. Winwood, M.A., F.G.S., and H. B. Woodward, F.G.S.
June 6th (whole day).	Tattingstone Crag Dis- trict of Suffolk.	The President (E. T. Newton, F.R.S.), and E. P. Ridley F.G.S.
June 13th.	Reading.	J. H. Blake, F.G.S., and H. W. Monckton, F.G.S.
June 20th.	Hitchin.	W. Hill, F.G.S., and H. W. Monckton, F.G.S.
July 4th.	Potter's Bar and Hatfield.	A. E. Salter, B.Sc., F.G.S.
July 11th (whole day).	New Railway, Catesby, Northants.	Beeby Thomson, F.C.S., F.G.S.
July 18th (whole day).	New Railway, Notting- ham and Leicester.	G. Elmsley Coke (late Lieut. R. N.), Prof. J. W. Carr, M.A., F.G.S., and W. W. Watts, M.A., F.G.S.
July 27th to August 1st (Long Excursion).	West Somerset and North Devon.	H. Hicks, M.D., F.R.S., Pres. G.S., Rev. H. H. Winwood, M.A., F.G.S., and J. G. Hamling, F.G.S.

The interest of members in the excursions of the Association during the past year has been fully maintained.

Your thanks are due to the directors of the excursions, also to the following ladies and gentlemen for assistance and hospitality :

Mr. J. Hoyle, and Mr. and Mrs. Stopes, at Swanscomb ; Mr. W. Brindley, F.G.S., at Swanage ; Dr. and Mrs. Hicks, at Hendon ; Mr. William Cole, F.L.S., at Chingford ; Mr. H. Herbert Smith, at Calne ; Mr. George Hancock, at Corsham ; Mr. Caleb Webber, at Kellaways ; Mr. Thos. Holloway, at Chippenham ; Mr. W. Keeble and Mr. Cuthbert, at Tattingstone ; Messrs. Sir Douglas and Francis Fox, Mr. D. L. Hutchison, Messrs. Oliver & Co., and Mr. H. A. Attenborough, at Catesby ; Mr. E. Parry, Mr. H. Lovatt, and Messrs. Logan and Hemmingway, on July 18th ; and to Sir A. Acland Hood, Bart., the directors of the North Devon Athenæum, and Mr. W. Bidgood, on the Long Excursion, as well as to the Council of the Zoological Society for free admission to their gardens on April 18th.

Your thanks are also due to Sir Archibald Geikie, D.Sc., D.C.L., LL.D., F.R.S., Director General of the Geological Survey, for the presentation of sheets 21, 26, 27, of the old edition, and of sheets 329, 342, 343 of the new edition of the Geological Map of England, and of sheet 12 of the Index Map of England geologically coloured.

As mentioned in the last annual report, it was felt that some division of labour in the management and arrangement of the excursions of the Association was very necessary, and the work during the past year has accordingly been in the hands of the following committee: H. W. Monckton (chairman), H. A. Allen, R. S. Herries, T. Leighton, E. P. Ridley, W. P. D. Stebbing, and A. C. Young.

Your thanks are due to the members of this committee for the trouble they have taken and for the able way in which they have carried out the business arrangements, upon which the success of the excursions so largely depends; and it is recommended that this committee be reappointed as soon as the new Council meets.

Your thanks are due to the Council of University College for the continued advantages they offer you in the use of rooms, and to Mr. Horsburgh, the Secretary to the College, for his courtesy and assistance.

There are many changes in your House List. Dr. G. J. Hinde and Mr. T. V. Holmes retire from the list of Vice-Presidents and from the Council. Mr. Morley Davies retires from the Editorship of your PROCEEDINGS. Miss Raisin, Mr. A. C. Young, and Mr. B. B. Woodward retire from your Council. Your thanks are due to all of these for the assistance they have rendered in carrying out the work of the Association, and more especially to Mr. Morley Davies, who has edited your PROCEEDINGS for four years, carrying out a difficult and onerous task with energy, punctuality, and success. The presence of a lady representative upon the Council has proved so advantageous in the past that it is hoped the vacancy caused by the retirement of Miss Raisin will be again filled by the election of a lady member.

Finally, your Council submits the name of Professor T. G. Bonney, to whom geological science generally and yourselves in particular are so much indebted, as an honorary member.

The names of those suggested by your Council to fill the vacant offices will be found on the ballot paper.

On the motion of Dr. HENRY WOODWARD, seconded by Mr. R. ELLIOTT, the Report was adopted as the Annual Report of the Association.

The scrutineers reported that the following were duly elected as Officers and Council for the ensuing year:

PRESIDENT :

E. T. Newton, F.R.S.

VICE-PRESIDENTS :

Prof. T. G. Bonney, F.R.S.
Thomas Leighton, F.G.S.Lieut.-Gen. C. A. McMahon, F.G.S.
George Potter, F.R.M.S.

TREASURER :

R. S. Herries, F.G.S.

SECRETARY :

C. Davies Sherborn, F.G.S.

EXCURSION SECRETARY :

Horace W. Monckton, F.L.S., F.G.S.

EDITOR :

H. A. Allen, F.G.S.

LIBRARIAN :

Wheatley J. Atkinson, F.G.S.

OTHER MEMBERS OF COUNCIL :

H. W. Burrows, A.R.I.B.A.
Geo. C. Crick, A.R.S.M., F.G.S.
A. Morley Davies, B.Sc., F.G.S.
Henry Fleck.
Miss Mary C. Foley, B.Sc.
J. D. Hardy, F.R.M.S.John Hopkinson, F.L.S., F.G.S.
Prof. Raphael Meldola, F.R.S.
F. W. Rudler, F.G.S.
A. E. Salter, B.Sc.
W. W. Watts, M.A., F.G.S.
Wm. Whitaker, F.R.S.

On the motion of Mr. RICHARD HOLLAND, seconded by Colonel STIFFE, the thanks of the Association were unanimously voted to the officers and members of Council retiring from office, to the auditors, and to the scrutineers.

The President then delivered his annual address, entitled "On the Evidence for the Existence of Man in the Tertiary Period."

On the motion of Mr. WM. WHITAKER, seconded by Dr. HENRY WOODWARD, it was unanimously resolved that the President's address be printed in full.

This terminated the Annual Meeting.