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EDITED BY

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LIST OF PLATES.

PLATES.			PAGE.
I.	Microscopic Structure of the Pitchstones of Arran		·•• 1
II.	Fossil Ferns	•••	49
III.	Rostellaria Pricei, H. Woodw., Grey Chalk, Folkestone	•••	97
IV.	Squaloraia polyspondyla, Agassiz, Lower Lias, Lyme Regia	•••	145
v.	Oolitic Coniferse from Solenhofen		193
VI.	Tylose in Tertiary Wood from Thanet	•••	241
VII .	Chart of a portion of North-West Greenland	•••	289
VIII.	Plan of the Sea-shore showing the Position of the Masses	of Me	teoric
	Iron found at Ovifak, Greenland		355
IX.	A New Arachnide from the Coal-measures, Lancashire	•••	385
Х.	Palæozoic Crustacea		433
XI.	Sections to Illustrate Mr. Tylor's Paper on the Formation of	of Del	tas 485
XII.	Graptolites from the Moffat Group		501
XIII.	Orithopsis Bonneyi, Lower Greensand, Lyme Regis		529
Д111.	Satyrites Reynesii, Tertiary, Aix in Provence	•••	529

LIST OF WOODCUTS.

Coast-section of a part of New Colwyn Bay	•••			16
Both sides of a Striated Stone from the Colwyn Blue Clay	•••		• • •	16
Roche moutonnée in Anglesey, looking leeward or down-stream			•••	19
Distant view of Moel-y-Tryfan, from near Bangor				26
Section of Marchlyn-mawr			•••	22
Cardiocarpon Lindleyi, Carr., Coal-measures, Falkirk				55
Cardiocarpon anomalum, Carr., Coal-measures, Derbyshire (?)				57
Araucarioxylon (Pinites) Withami, Kraus., Coal-measures, Ed	linburg	h		58
Pine-wood from Wealden at Brook, Isle of Wight	0			58
Pothocites Grantoni, Paterson, Coal-measures, Edinburgh				58
Pyrites Deposit, Buitron Mine, in the Province of Huelva, in	Spain			60
Esquimaux Knife from West Coast of Greenland				73
Endoceras proteiforme, Hall, Coniston Series, near Ambleside			-	103
Araucarites Häberleinii. Dyer				151
Araucarites sphærocarpus, Carruthers				151
Longitudinal Section of Scale of Araucaria Bidwilli				152
Mon of Strate at Whithams Daint Fast Lathian		•••		162
map of Strata at Whitberry Folint, East Lothian	•••	•••	•••	104

		PAGE			
Section at Whitberry Point, East Lothian	•••	162			
Water-worn Teeth of Carcharodon from the Suffolk Crag	•••	248			
Large Tooth of Carcharodon megalodon, Agassiz		249			
Fossil Human Skeleton found in the Cavern of Baoussé-rousse	•••	273			
Sections to Illustrate Mr. Törnebohm's Theory of the Swedish Åsar	••••	307			
Sketch Map of the Malar Basin, showing the direction of the Åsar	•••	308			
Section at Welcome Rush, Australia		336			
Inland Ice abutting on Land, Greenland		362			
Inland Ice extending into the sea, and terminating in a steep edge, G	reenla	nd 363			
Inland Ice abutting on the bottom of ice-fjord, Greenland	•••	364			
Inland Ice abutting on a Mud-bank, Greenland	•••	364			
Crinoidal Remains associated with Casts of the Stems of Cupressocrin	<i>us</i>	388			
General Section of Drifts in the Central part of the Lake District		402			
Sections of Roslyn Hill Clay Pit		404, 407			
Plans of Roslyn Hill Clay Pit		405, 407			
Section in Greenland before any modern denudation has taken place		424			
Section in Greenland along a modern Mountain Stream		425			
Hemiaspis limuloides, H. Woodw., L. Ludlow, Leintwardine		435			
Pseudoniscus aculeatus, Exapinurus Schrenkii, and Bunodes lunula		436			
Head-shield of Hemiaspis speratus, Salter	•••	437			
Head-shield of Hemiaspis horridus, H. Woodw		437			
Head-shield of Hemiaspis Salweyi, Salter	•••	438			
Tubes of Ortonia conica, Nich., growing on valve of Strophomena alternata 447					
Succession of Strata at Ekkorfat, Greenland		449			
Series of Strata below Atanekerdluk		453			
Bituminized Tree-stem from Atanekerdluk		456			
Series of Strata at Atanekerdluk		457			
The three largest Meteoric Stones, Greenland	•••	462			
Range and Evolution of the several Orders of Crustacea in Time		568			
Trailee and Provident of the second of deas of orderaced in Time	•••				

ANNUAL REPORT

OF THE

GEOLOGISTS' ASSOCIATION

FOR

1871.

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GEOLOGISTS' ASSOCIATION.

REPORT OF THE GENERAL COMMITTEE FOR 1871.

The General Committee of the Geologists' Association have great pleasure in congratulating the members on the continued prosperity and progress of the Association.

During the past year the Papers have equalled in interest and importance those presented to the Association during preceding years, and your Committee have peculiar satisfaction in finding that the attendance at the evening meetings has been large, and the discussions animated and interesting.

The communications on local geology, or the geology of the neighbourhood of London, have been of great interest, and will, without doubt, prove of permanent value.

The visits to the three great Museums of the Metropolis, the British Museum, the Museum of Practical Geology, and the Museum of the Royal College of Surgeons, were in each instance participated in by a large number of members, who conspicuously indicated their appreciation of the great advantage of inspecting specimens under the guidance of Professor Morris, Mr. Etheridge, Mr. Carruthers, Mr. Henry Woodward, and Professor Tennant, who most kindly gave, at the Museums, explanatory lectures. Your Committee feel under great obligations to the authorities of these noble homes of science for their courtesy in giving facilities for the visits of the Association.

A similar lively interest on the part of the members has been taken in the Excursions of the Association, which, during the past year have been of great value, and almost uniformly very successful. To the gentlemen who have contributed their local knowledge, and kindly acted as directors of the several excursions, the warmest thanks of the Association are due, for to them is principally owing the success of the excursions.

Your Committee have again the pleasure of offering, on your behalf, the thanks of the Association to Professor Morris, for the great assistance he has rendered the Association by his lectures in the museum and in the field, as well as by his instructive companionship during the excursions. GEOLOGISTS' ASSOCIATION REPORT FOR 1871.

To Professor Phillips, the Rev. T. G. Bonney, Professor Buckman, the Rev. P. B. Brodie, Mr. Henry Woodward, and Mr. Harry Seeley, the thanks of the Association are also eminently due.

The Excursions have enabled the members of the Association to examine the following formations, and thereby make themselves acquainted with the Petrology and the Palæontology of these interesting groups of strata :---

> KEUPER-Warwick. LOWER LIAS-Harbury and Wilmcote. MIDDLE LIAS-Yeovil and South Petherton. UPPER LIAS-South Petherton. INFERIOR OOLITE-Sherborne and Ham Hill. . GREAT OOLITE-Oxfordshire. FOREST MARBLE-Oxfordshire. CORNBRASH-Islip. OXFORD CLAY-Oxford. CORALLINE OOLITE-Headington and Upware. KIMMERIDGE CLAY-Shotover. LOWER GREENSAND-Upware. GAULT-Cambridge. UPPER GREENSAND-Cambridge. CHALK---Grays and Riddlesdown. NEWER PLIOCENE-Grays, Ilford, and Barnwell.

Your Committee desire to record their appreciation of the great favour shown to the Geologists' Association by the Universities of Oxford and Cambridge, in affording facilities for the inspection of the contents of those magnificent museums, the University Museum of Oxford, and the Woodwardian Museum of Cambridge.

Through the kindness of their respective owners and custodians, the following local and private museums have been inspected during the excursions:---

Dr. SFURREL'S Museum of Thames Valley Mammalian Remains. Mr. JAMES PARKER'S Museum of Reptilian Remains. Mr. EARWAKER'S Collection of Jurassic and Cretaceous Fossils. The Rev. E. BOWER'S Collection of Mesozoic Fossils. Professor BUCKMAN'S Collection of Jurassic Fossils. Mr. T. C. MAGGS' and Mr. MONK'S Collections of Yeovil Fossils. Sir ANTONIO BRADY'S Collection of Thames Valley Mammalian Remains. The Museum of the Warwickshire Natural History and Archæological Society. The Rev. P. B. BRODIE'S Collection of Insect Remains.

Your Committee have also to acknowledge, with great pleasure, the hospitality which has been abundantly offered to the members of the Geologists' Association who have taken part in the excursions.

The Rev. T. G. Bonney, of Cambridge, Professor Buckman, the Rev. E. Bower, and Mr. Maggs, of Yeovil, Mr. James Parker, of Oxford, Sir Antonio Brady, of Stratford, and Mr. Kirshaw, of Warwick, have each contributed greatly to the success and pleasure of the excursions during the past year, by their generous entertainment of our members.

The Library has received numerous accessions, as well by donations from individual members, as by those from metropolitan and provincial societies. Many Scientific Societies correspond and exchange publications with the Geologists' Association, and thus our library is growing annually in value and usefulness to members. There are two hundred and ten books now in the Library, and of that number more than a quarter have been issued to members during the last year, showing how greatly the Library is appreciated.

The past year has been distinguished by the commencement of the publication of Quarterly "Proceedings," and three numbers have already been issued to members. This method of publishing the papers of value read before the Association will, it is hoped, prove more satisfactory to members than that previously adopted.

The number of members of the Association has largely increased during the year, and your Committee have great satisfaction in seeing amongst our new names those of several gentlemen who are already eminent in the scientific world, and other names which are known to be those of earnest students of Geological Science.

It is also matter for congratulation, as attesting the widening influence of the Association, that gentlemen resident at long distances from London are seeking admission to our body, and joining in our excursions, which thus become a means of bringing together geologists from various parts of England, who were previously personally unknown to each other, although well known as possessing great local as well as general geological knowledge.

It has appeared to your Committee desirable that the Laws of the Association should be modified and amended, to bring them into accordance with the altered position of the Association, and the present requirements of the members. A revision of the Laws has accordingly been accomplished, and the revised code has been duly passed at a Special General Meeting of the Association.

The Financial Position of the Association is extremely satisfactory, as will be seen from an inspection of the Treasurer's Account.

Your Committee feel that they but interpret your unanimous wishes, when they tender your thanks to the Council of University College for the courteous continuance of their grant of the Library of the College for the meetings of the Association.

You will be gratified to learn that the Rev. Thomas Wiltshire, M.A., F.G.S., &c., has intimated his willingness to continue to preside over the Association during the ensuing year.

It will be apparent from the foregoing statements that the Geologists' Association has opening before it an increased sphere of usefulness, but your Committee desire the co-operation of each one of your body in their endeavours to make our Association more and more influential for the advancement and diffusion of Geological Knowledge.

The following Papers were read during the year :---

On the Geology of the Neighbourhood of Portsmouth and Ryde, by CALEB EVANS, Esq., F.G.S.

On the Range in Time of the Foraminifera, by Professor T. RUPERT JONES, F.G.S.

On the English Crags, considered in reference to the Stratigraphical Divisions indicated by their Invertebrate Fauna, by ALFRED and ROBERT BELL.

On South African Diamonds, by Professor TENNANT, F.G.S., &c.

On the Fauna of the Carboniferous Epoch, by HENRY WOODWARD, Esq., F.G.S. On Flint, by M. HAWKINS JOHNSON, Esq., F.G.S.

On the Upper Limits of the Devonian System, by S. R. PATTISON, Esq., F.G.S.

On an Exposure of the London Clay, at Child's Hill, Hampstead, by CALEB EVANS, Esq., F.G.S.

On the Old Land Surfaces of the Globe, by Professor MORRIS, F.G.S.

On a Recent Exposure of the Glacial Drift at Finchley, by HENRY WALKER, Esq. On the Glacial Drifts of North London, by HENRY WALKER, Esq.

On the Overlapping of several Geological Formations on the North Wales Border, by D. C. DAVIES, Esq.

Report of the Proceedings of the Geological Section of the British Association at Edinburgh, 1871, by JOHN HOPKINSON, Esq., F.G.S., F.R.M.S.

The following is a list of the Excursions of the past year :---

Directors.		
M. TO O O		

	CProf. Morris, F.G.S.
Visit to the British Museum, 18th March.	Frof. Morris, F.G.S. Henry Woodward, Esq., F.G.S., &c. William Carruthers, Esq., F.G.S., &c.
	William Carruthers, Esq., F.G.S., &c.
	CProf. Morris, F.G.S.
Visit to the Museum of Practical Geology,	Bobert Etheridge, Esq., F.G.S., &c.
Visit to the Museum of Practical Geology, 25th March.	(Prof. Tennant, F.G.S., &c.
	, The President.
Excursion to Cambridge and Upware, and	The Rev. T. G. Bonney M.A., F.G.S.
Visit to Woodwardian Museum, 10th	Prof. Morris, F.G.S.
and 11th April.	Prof. Morris, F.G.S. Harry Seeley, Esq., F.G.S.

6

Visit to the Hunterian Museum of the Royal College of Surgeons, 18th April.	Prof. Morris, F.G.S.
Excursion to Belvedere, and visit to Dr. Spurrel's Museum, 29th April.	} Prof. Morris, F.G.S.
Excursion to Oxford, and visit to the University Museum, 12th May.	Prof. Phillips, F.R.S., F.G.S.
versity Museum, 12th May.	J. P. Earwaker, Esq.
Excursion to Grays, Essex, 20th May.	The President.
Excursion to the Yeovil District, 29th, 30th,	∫ Prof. Buckman, F.G.S., &c.
31st May, and 1st June.	J. Logan Lobley, Esq., F.G.S., &c.
Excursion to Ilford, and visit to Sir Antonio	Henry Woodward, Esq., F.G.S. Sir Antonio Brady, F.G.S.
Brady's Museum, 17th June.	Sir Antonio Brady, F.G.S.
Excursion to Caterham Junction and Rid- dlesdown, 1st July.	}J. Logan Lobley, Esq., F.G.S., &c.
Excursion to Warwickshire, and visit to the	1
Museum of the Warwickshire Natural	Rev. P. B. Brodie, M.A., F.G.S.
Museum of the Warwickshire Natural History and Archæological Society, 10th and 11th July.	J. W. Kirshaw, Esq., F.G.S.

Your Committee recommend the following list of Officers for the year 1872:---

PRESIDENT.

Rev. Thomas Wiltshire, M.A., F.G.S., F.R.A.S., &c.

VICE-PRESIDENTS.

John Cumming, Esq., F.G.S. Professor John Morris, F.G.S. James Thorne, Esq.

Henry Woodward, Esq., F.G.S., F.Z.S.

TREASURER.

William Hislop, Esq., F.B.A.S., 177, St. John Street Road, E.C., and High Street, Tunbridge Wells.

GENERAL COMMITTEE.

Caleb Evans, Esq., F.G.S. John Hopkinson, Esq., F.G.S., F.B.M.S. James William Hott, Esq. M. Hawkins Johnson, Esq., F.G.S. Henry Lee, Esq., F.L.S., F.G.S., F.R.M.S. W. H. Leighton, Esq., F.G.S.

Thomas Lovick, Esq. C. J. A. Meyer, Esq., F.G.S. John S. Phené, Esq., F.G.S., F.R.G.S. George Potter, Esq., F.R.M.S. Professor Tennant, F.G.S., F.R.G.S. Henry Walker, Esq., F.G.S.

HONORARY SECRETARY.

J. Logan Lobley, F.G.S., 59, Clarendon Road, Kensington Park, W.

HONORARY LIBRARIAN. Arthur Bott, Esq., F.G.S.

Your Committee have great pleasure in recommending for election as Honorary Members of the Geologists' Association:---

Professor John Phillips, M.A., LL.D., F.B.S., F.G.S., &c., &c., Professor of Geology in the University of Oxford.

Robert Etheridge, Esq., F.R.S., F.G.S., &c., Palæontologist to the Geological Survey of Great Britain.