

and less hairy flowers and inflorescence. (*b*) *Cheirostylis grandiflorus*, Blume, found "in moist forests between rocks on the coast of New Guinea," is now recorded from similar situations near Lismore, Richmond River, N.S.W. Its discovery adds a genus to the flora of Australia. (*c*) *Grevillea alpina*, Lindl., hitherto only recorded from Victoria, has been found in the Albury district.—On a new fungus (*Capnodium callitris*) attacking the Murray pine; together with observations on a fungus found on *Hypocheris radicata*, L., by D. McAlpine.—On some Australian gudgeons (*Eleotridinae*), by J. Douglas Ogilby.—Descriptions of some new *Araneidae* of New South Wales. No. 7, by W. J. Rainbow.—Contributions to a knowledge of the arachnid fauna of Australia, No. 1, by W. J. Rainbow. This paper, the first of a new series, is descriptive of a new scorpion (*Buthus flaviverris*) from Como, obtained by Mr. J. D. Ogilby.—On *Domatia* in certain Australian and other plants, by Alex. G. Hamilton.—Description of a new species of *Pupina* from Queensland, by C. E. Beddome.—Revision of the genus *Paropsis*, Part 1., by Rev. T. Blackburn.—The Silurian trilobites of New South Wales, with references to those of other parts of Australia. Part iv. The *Odontopleurida*, by R. Etheridge, jun., and John Mitchell.—Note on a Papuan throwing-stick, by J. Jennings.—On the so-called evidences of glaciation on the Mt. Kosciusko plateau, by Rev. J. Milne Curran. The author concluded that (1) there is no satisfactory evidence of glaciers in the present valleys. (2) There is absolutely no evidence of extensive glaciation on the Kosciusko plateau. (3) The "glacial epoch in Australia" in Post-Tertiary times as described by Dr. Lindenfeld, has no foundation in fact.

DIARY OF SOCIETIES.

THURSDAY, JANUARY 7.

ROYAL INSTITUTION, at 3.—Visible and Invisible Light: Prof. S. P. Thompson, F.R.S.

FRIDAY, JANUARY 8.

ROYAL ASTRONOMICAL SOCIETY, at 8.—A Method of Clearing a Lunar Distance: F. C. Penrose.—Determination of the Diameter and Compression of the Planet Mars, from Observations with the Repsold Heliotometer of the Royal Observatory, Göttingen: W. Schur.—On the Comparison of Reflector and Portrait Lens Photographs: Dr. Isaac Roberts.—Note on the Magnitude of η Argus, 1896: R. T. A. Innes.—Orbit of 44 Bootis η I. 15 = Sh. 193 = Σ 1099: S. W. Burnham.

SATURDAY, JANUARY 9.

ROYAL INSTITUTION, at 3.—Visible and Invisible Light: Prof. S. P. Thompson, F.R.S.

SUNDAY, JANUARY 10.

SUNDAY LECTURE SOCIETY, at 4.—Artificial Light: Prof. Vivian B. Lewes.

TUESDAY, JANUARY 12.

ANTHROPOLOGICAL INSTITUTE, at 8.30.
INSTITUTION OF CIVIL ENGINEERS, at 8.—Superheated Steam Engine Trials: Prof. W. Ripper.

ROYAL PHOTOGRAPHIC SOCIETY, at 8.—Photography by the Röntgen Rays, up to date: Dr. Hall-Edwards.

WEDNESDAY, JANUARY 13.

SOCIETY OF PUBLIC ANALYSTS, at 5.—Annual Meeting.—Also, some Analyses of Water from an Oyster Fishery; Note on Weighing out Fats; Remarks on Formaldehyde: Chas. E. Cassal.—A Specific Gravity Pipette: W. F. Keating Stock.—A Modified Schmidt Process: R. W. Wousnam.

THURSDAY, JANUARY 14.

MATHEMATICAL SOCIETY, at 8.—Supplementary Note on Matrices: J. Brill.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Inaugural Address of the President, Sir Henry Mance.

SOUTH LONDON ENTOMOLOGICAL AND NATURAL HISTORY SOCIETY.—Some Marine Mimics: E. Step.

FRIDAY, JANUARY 15.

EPIDEMIOLOGICAL SOCIETY, at 8.—Age Incidence in Relation with Cycles of Disease Prevalence: Dr. Hamer.

INSTITUTION OF CIVIL ENGINEERS, at 8.—On "Monier" Girders and Arches: Walter Beer.

BOOKS, PAMPHLETS, and SERIALS RECEIVED.

BOOKS.—Register of the Associates and Old Students of the Royal College of Chemistry, &c.: T. G. Chambers (Hazzell).—*Cœuvres Scientifiques de L. Lorenz, Revues et Annotées par H. Valentiner*, Tome 1, Fasc. 1 (Copenhagen, Lehmann).—A Handbook to the Game Birds: W. R. Ogilvie-Grant, Vol. 2 (Allen).—Microscopic Researches on the Formative Property of Glycogen: Dr. C. Creighton. Part 1. Physiological (Black).—Coloured Figures of the Eggs of British Birds, with Descriptive Notices: H. Seebohm, edited by Dr. R. B. Sharpe (Sheffield, Pawson).—The Collected Mathematical Papers of Arthur Cayley, Vol. xi. (Cambridge University Press).—The Constitution and Functions of Gases, &c.: S. J. Corrihan (St. Paul, Pioneer Press Company).—Untersuchungen über Bau, Kernteilung und Bewegung der Diatomeen: R. Lauterborn (Leipzig, Engelmann).—Smithsonian Institution Report to July 1894 (Washington).—Notes of Lessons on Elementary Botany: W. Bland, 12th edition (Bemrose).—Outlines of Psychology: W. Wundt, translated by C. H. Judd (Williams and Norgate).—A Dictionary of Birds: A. Newton and others, Part 4 (Black).—Catalogue of the African Plants collected by Dr. F. Welwitsch in 1853-61. Dicotyledons, Part 1: W. P. Hiern (London, British Museum, Natural History).—Inorganic Chemical Preparations: Dr. F. H. Thorp (Boston, Ginn).—Oceanic Ichthyology: Drs. G. B. Goode and T. H. Bean, Text

and Plates (Washington).—Life Histories of North American Birds: Captain C. Bendire (Washington).—A Catalogue of 16,748 Southern Stars deduced by the U.S. Naval Observatory from the Zone Observations made at Santiago de Chile (Washington).—Sixteenth Annual Report of the U.S. Geological Survey, Part 1 (Washington).—Annals of the Royal Botanic Garden, Calcutta, Vol. v. Part 2; Vol. vi. Part 1; and Vol. vii. (Calcutta, Bengal Secretariat Press).

PAMPHLETS.—Annuaire Astronomique et Météorologique pour 1897: C. Flammarion (Paris, E. Flammarion).—An Account of the Crustacea of Norway, Vol. 2, Parts 1 and 2: G. O. Sars (Bergen).—Annuaire de l'Académie Royale des Sciences, &c., de Belgique, 1897 (Bruxelles).—The Camera and the Pen: T. C. Hepworth (Lund).—Museums Association Report (Dulau).—Meteorological Observations and Results obtained at the U.S. Naval Observatory for the Year 1896 (Washington).

SERIALS.—History of Mankind: F. Ratzel, translated, Part 15 (Macmillan).—Lloyd's Natural History. Game Birds, Part 3; W. R. Ogilvie-Grant (Lloyd).—Lloyd's Natural History. British Birds, Part 7: R. B. Sharpe (Lloyd).—Longman's Magazine, January (Longmans).—Century Magazine, January (Macmillan).—Notes from the Leyden Museum, Vol. xviii. Nos. 2 and 3 (Leyden, Brill).—Economic Journal, December (Macmillan).—Bibliographia Physiologica, 1896: Prof. Ch. Richet, Premier Fasc. (Paris, Alcan).—Zeitschrift für Physikalische Chemie, xxi. Band, 3 Heft (Leipzig, Engelmann).—National Review, January (Arnold).—Contemporary Review, January (Isbister).—Natural Science, January (Page).—Science Progress, January (Scientific Press).—Reliquary and Illustrated Archaeologist, January (Bemrose).—Astrophysical Journal, December (Chicago).—Fortnightly Review, January (Chapman).—Humanitarian, January (Hutchinson).—Scribner's Magazine, January (Low).—Bibliography of the more important Contributions to American Economic Entomology, Part 5 (Washington).—Journal of the Chemical Society, December (Gurney).—Journal of the Royal Agricultural Society of England, December (Murray).—Geographical Journal, January (Stanford).—American Journal of Psychology, Vol. viii. No. 2 (Worcester, Mass.).—Internationales Archiv. f. r Ethnographie, Band ix. Heft 6 (Leyden, Brill).

CONTENTS.

	PAGE
Physical Science a Hundred Years ago. By W. A. T.	217
Egyptian Made Easy	218
The History of Elementary Mathematics. By G. B. M.	219
Hindu Medicine	221
Our Book Shelf:—	
Cooke and Sons: "On the Adjustment and Testing of Telescopic Objectives."—W. J. S. L.	221
Sexton: "Fuel and Refractory Materials"	222
Barrett: "The Lepidoptera of the British Islands"	222
Henslow: "How to Study Wild Flowers"	222
Letters to the Editor:—	
On a New Law Connecting the Periods of Molecular Vibrations.—Prof. Arthur Schuster, F.R.S.	223
The Pound as a Force.—Prof. Oliver J. Lodge, F.R.S.	223
The Theory of Dissociation into Ions.—Spencer Pickering, F.R.S.	223
Some Neural Descriptive Terms.—Prof. Burt G. Wilder	224
Measurement of Crabs.—H. Thompson	224
Marriage of the Dead.—Kumagusu Minakata	224
The Heating of Anodes in X-Ray Tubes.—A. A. C. Swinton	225
Sesamoid Bones.—F. J. Reid	225
Discharge of Electricity by Phosphorus.—J. R. Ashworth	225
Shooting Stars observed on January 2.—Dr. H. C. Sorby, F.R.S.	225
The Geodetic Survey of South Africa. By Sir C. W. Wilson, K.C.B., F.R.S.	226
In the Australian Bush and on the Coast of the Coral Seas. (Illustrated.) By W. Saville-Kent	227
The Reading, Writing, and Arithmetic of the Neolithic Troglodytes. (Illustrated.) By A. C. H.	229
Emil du Bois-Reymond. By Prof. J. Burdon-Sanderson, F.R.S.	230
Notes	231
Our Astronomical Column:—	
The Total Solar Eclipse of August 9, 1896	235
The Melbourne Observatory	235
Mists on Mars	235
The Atmospheric Absorption of Light. By W. E. Plummer	235
On certain Vestigial Characters in Man. By Dr. Walter Kidd	236
Is Animal Life Possible in the Absence of Bacteria?	238
Societies and Academies	238
Diary of Societies	240
Books, Pamphlets, and Serials Received	240