

an ovariectomised hen.—Edouard Chatton: Parasitic peridinians of the Radiolaria.—L. Panisset and J. Verge: Bird diphtheria and contagious epithelioma.

SYDNEY.

Linnean Society of New South Wales, October 31.—Mr. A. F. Basset Hull, president, in the chair.—P. Esben-Petersen: (1) Australian Neuroptera. Pt. iv. Four genera and eight species of Myrmeleionidæ are described as new, and observations made on a number of described species; a list is also given of the species which have been described from Australia. (2) Australian Neuroptera. Pt. v. Observations are made on fourteen species of Mantispidæ and a list of the described Australian species.—A. Thérý: Note on the genus *Synechocera*, with description of a new species. Only two species of the genus are known—one from Amboina, described in 1801, and the other from Swan River. A third species is here described from Tasmania, larger than *S. elongata* and of different habitat.—John Mitchell: The Strophomenidæ from the fossiliferous beds of Bowning, N.S.W. Fifteen species of Stropheodonta from the Bowning Beds (Silurian) are described as new.—R. J. Tillyard: Mesozoic insects of Queensland. No. 10. Summary of Upper Triassic insect fauna of Ipswich, Q. A summary and analysis of the insect fauna of the Ipswich Series, containing, as far as at present described, 122 species belonging to 63 genera. The composition of this fauna indicates that "the age of the Beds was not earlier than the lowest division of the Upper Triassic, and not later than the top of the Upper Triassic; it was most probably a little older than Rhaetic." In an appendix, one genus and one species of Neuroptera and two species of Hemiptera are described as new.—A. A. Lawson: The life-history of *Pherosphaera*. This investigation of the life-history of *Pherosphaera* affords the first knowledge we have of the gametophytes and embryo of this very rare and interesting Australian genus of Conifers. The structures of the male and female gametophytes and the embryo show no features that justify us in classing *Pherosphaera* among the Podocarpinæ.

Official Publications Received.

Astrographic Catalogue 1900-0. Sydney Section Dec. -51° to -65° . From Photographs taken at the Sydney Observatory, New South Wales, Australia. Vol. 3: R.A. 12^h to 18^h, Dec. -51° to -53° . Plate Centres Dec. -52° . Pp. vi+83. Vol. 4: R.A. 18^h to 24^h, Dec. -51° to -53° . Plate Centres Dec. -52° . Pp. 37. (Sydney: Alfred J. Kent.)
Total Eclipse of the Sun, 1922 September 21, Sydney Observatory. Pp. 13. (Sydney: Alfred J. Kent.)
The Physical Society of London. Proceedings, Vol. 36, Part 1, December 15. Pp. 66. (London: The Fleetway Press, Ltd.) 6s. net.
The University of Colorado Studies. Vol. 13, No. 1. Pp. ii+65. (Boulder, Colo.)
Imperial Department of Agriculture for the West Indies. Report on the Agricultural Department, St. Vincent, for the Year 1922. Pp. iv+46. (Trinidad.) 6d.
Ministry of Public Works: Physical Department. The Rains of the Nile Basin and the Nile Flood of 1913. By Dr. H. E. Hurst. (Physical Department Paper No. 12.) Pp. iv+98+8 plates. (Cairo: Government Publications Office.) P.T. 10.
Transactions of the Royal Society of Edinburgh. Vol. 53, Part 2, No. 22: Geology of the Outer Hebrides. Part 1: The Barra Isles. By Prof. T. J. Jehu and R. M. Craig. Pp. 419-441+4 plates. (Edinburgh: R. Grant and Son; London: Williams and Norgate.) 4s. 6d.
Department of Scientific and Industrial Research. Report of the Food Investigation Board for the Year 1922. Pp. iii+60. (London: H.M. Stationery Office.) 1s. 6d. net.

Diary of Societies.

SATURDAY, JANUARY 5.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir William Bragg: Concerning the Nature of Things: The Nature of Crystals—Ice and Snow (Juvenile Lectures 63).
GILBERT WHITE FELLOWSHIP (at 6 Queen Square, W.C.1), at 3.—Sir David Praeger: Gilbert White and Moral History.

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MONDAY, JANUARY 7.

VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—Rev. Dr. M. G. Kyle: The Problem of the Pentateuch from the Standpoint of the Archaeologist.
MATHEMATICAL ASSOCIATION (at London Day Training College), at 5.30.—Prof. H. H. Turner: Earthquakes.
BRITISH PSYCHOLOGICAL SOCIETY (Education Section) (at University College), at 5.30.—Dr. J. Glover: Recent Advances in the Relations of Psycho-Analysis to Education.
INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 6.—J. W. Beauchamp and others: Discussion on Troubles experienced with Domestic Electrical Appliances.
SOCIETY OF CHEMICAL INDUSTRY (London Section) (at Chemical Society), at 8.—Dr. E. Fyfe: The Estimation of Butyric Acid in Presence of Acetic Acid.—C. E. Barrs: The Estimation of Cadmium in Spelter and Zinc Ores.
INSTITUTION OF RUBBER INDUSTRY (London Section) (at Engineers' Club), at 8.—Dr. S. S. Pickles: Consistency of Rubber and Rubber Compounds.

TUESDAY, JANUARY 8.

MATHEMATICAL ASSOCIATION (at London Day Training College), at 10 A.M.—W. C. Fletcher: Mathematics and English.—W. Hope-Jones: A Plea for Teaching Probability in Schools.—A. W. Lucy: Exhibition of a Surveying Instrument, and explanation of its use in connexion with practical work in Trigonometry.—At 2.30.—Sir Thomas L. Heath: Presidential Address.—Discussion on the Report on the Teaching of Geometry.—G. Goodwill: Euclid and his Successors: Some Confusion and a Way out.—Prof. C. Godfrey: Construction in Geometry. What is legitimate?
ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir William Bragg: Concerning the Nature of Things: The Nature of Crystals—Metals (Juvenile Lectures 64).
ROYAL SOCIETY OF MEDICINE (Medicine, Pathology, Therapeutics and Pharmacology Sections), at 4.30.—Sir Almroth Wright, Sir Thomas Border, and others: Joint Discussion on The Uses and Limits of Vaccine Therapy.
ASSOCIATION OF TEACHERS OF DOMESTIC SUBJECTS (at University College), at 5.30.—Sir Henry Gouvalin: Light and Life.
INSTITUTION OF PETROLEUM TECHNOLOGISTS (at Royal Society of Arts), at 5.30.—J. Kewley: The Crude Oil of Sarawak.—Dr. A. E. Dunstan: The Crude Oil of Maidan-Naftun.
INSTITUTION OF CIVIL ENGINEERS, at 6.—H. T. Tudsbery and A. R. Gibbs: An Account of an Examination of the Menai Suspension Bridge.
INSTITUTE OF MARINE ENGINEERS, INC., at 6.30.—R. G. Reid: Modern Refrigerating Machines.
ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Scientific and Technical Group), at 7.—G. A. Clarke: A Note upon the Upper Cloud in Advance of the Depression of August 28-30, 1923.—H. M. Cartwright and others: Discussion on A Consideration of some Problems concerning the Measurement of Photographic Density.—W. J. G. Farrer: Exhibition of an apparatus for testing the Ultra-violet Transmission of Colour Filters.
QUEBEC MICROSCOPICAL CLUB, at 7.30.—E. Cuzner: The Respiration of Aquatic Organisms.
ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Eoliths found *in situ* at South Ash.—De Bari Crawshaw: Azilian-Tardenoisian Flint Industry in Mesopotamia.
RÖNTGEN SOCIETY (at British Institute of Radiology), at 8.15.—Dr. J. A. Crowther: Studies in X-ray Production.—H. Moore: The Quality of the X-rays excited in hot cathode and in "gas" tubes by various types of generators of High-tension Current.

WEDNESDAY, JANUARY 9.

ROYAL SOCIETY OF ARTS, at 3.—Prof. W. A. Bone: Fire and Explosions (Dr. Mann Juvenile Lectures 22).
GEOLOGICAL SOCIETY, at 5.30.—Prof. S. H. Reynolds and Dr. E. Greenly: The Geological Structure of the Clevedon-Portishead Area (Somerset).—Dr. F. S. Wallis: The Avonian of the Tytherington-Tortworth-Wickwar Ridge (Gloucestershire).—Miss Agnes E. Bamber: The Avonian of the Western Mendips, from the Cheddar-Valley Railway to the Sea, West of Brean Down.
INSTITUTION OF CIVIL ENGINEERS (Students' Meeting), at 6.—J. M. Moncrieff: The Work of a Constructional Engineer's Office.
INSTITUTION OF HEATING AND VENTILATING ENGINEERS, INC. (at Engineers' Club, Coventry Street), at 7.—T. Lindsay: A New Universal Regulator for the Control of Temperature, Pressure, Humidity, etc.

THURSDAY, JANUARY 10.

LINNEAN SOCIETY, at 5.—A. J. Wilmott: Some further Additions to the British Flora.—Mrs. Henshaw: Plant Life in British Columbia.—R. H. Burne: Exhibition of Specimens of the Carotid Arteries of Lamna and other Sharks.
ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 5.30.—Dr. Aitchison and Mr. North: Materials from the Aeronautical Point of View.
INSTITUTION OF ELECTRICAL ENGINEERS AND THE SOCIÉTÉ DES INGENIEURS CIVILS DE FRANCE (British Section) (in the Lecture Theatre of the Institution), at 6.—Continuation of discussion on A. Bachelier's paper on the Electrification of the Midi Railway.
INSTITUTE OF METALS (London Local Section) (at Institute of Marine Engineers, Inc.), at 8.—W. T. Griffiths: X-rays and Metallurgy.

FRIDAY, JANUARY 11.

ROYAL ASTRONOMICAL SOCIETY, at 5.
MALACOLOGICAL SOCIETY OF LONDON (at Linnean Society), at 6.
INSTITUTION OF MECHANICAL ENGINEERS (Informal Meeting), at 7.
JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—C. O. Mourant: Concrete Engineering.

PUBLIC LECTURE.

SATURDAY, JANUARY 12.

BIRKBECK COLLEGE, at 5.30.—Dr. F. H. Hayward: Homage Celebration of Leonardo da Vinci.