

cadmium to give 1 per cent. in the brasses made with it, the influence of cadmium has not much industrial importance.—G. Lincio: The stibnite and pyrites layer at Su Suergiu, Villasalto, Sardinia.—S. Stefanescu: A new method for the study of the phylogeny of mastodons, stegodons, and elephants.—H. Perrotin: The propagation of heat in the lower layers of the atmosphere.—P. Lesage: Contributions to the study of the germination of the spores of mosses.—E. Bordage: Observations on the nuclei of the trophocytes arising from the transformation of striated muscular tissue in insects.—P. Remlinger: The action of ether on rabies virus. The brain of a rabbit infected with the virus, after 120 hours' immersion in ether loses its pathogenic power. The brain readily forms an emulsion with physiological water after this treatment with ether, and this emulsion can be injected in large doses into animals without any danger. The immunity against rabies thus conferred appears to be lasting.

BOOKS RECEIVED.

An Enquiry into the Analytical Mechanism of the Internal Ear. By Sir T. Wrightson. With an Appendix on the Anatomy of the Parts Concerned, by Dr. A. Keith. Pp. xi+254+plates ix. (London: Macmillan and Co., Ltd.) 12s. 6d. net.

Tidal Lands: A Study of Shore Problems. By A. E. Carey and Prof. F. W. Oliver. Pp. xiv+284. (London: Blackie and Son, Ltd.) 12s. 6d. net.

Applied Optics: The Computation of Optical Systems. Being the "Handbuch der angewandten Optik" of Dr. A. Steinheil and Dr. E. Voit. Translated and edited by J. W. French. Vol. i. Pp. xvii+170. (London: Blackie and Son, Ltd.) 12s. 6d. net.

Astrographic Catalogue. Hyderabad Section. 1900-0. Vol. i., Measures of Rectangular Co-ordinates and Diameters of 63,436 Star-Images on Plates with Centres in Dec. -170. Pp. xliii+223. (Edinburgh: Neill and Co., Ltd.) 12 rupees or 16s. net.

Plant Physiology. By Prof. V. I. Palladin. Authorised English translation. Edited by Prof. B. E. Livingston. Pp. xxv+320. (Philadelphia: P. Blakiston's Son and Co.)

Flora of the Presidency of Madras. By J. S. Gamble. Part ii. (London: Adlard and Son and West, Newman, Ltd.) 8s. net.

The Neurotic Constitution. By Dr. A. Adler. Translated by Drs. B. Glueck and J. E. Lind. Pp. xxiii+456. (London: Kegan Paul and Co., Ltd.) 16s. net.

Library of Congress. Report of the Librarian of Congress and Report of the Superintendent of the Library Buildings and Grounds for the Fiscal Year ending June 30, 1917. Pp. 223. (Washington: Government Printing Office.)

A Text-Book of Inorganic Chemistry. Edited by Dr. J. Newton Friend. Vol. v., Carbon and its Allies. By Dr. R. M. Caven. Pp. xxi+468. (London: C. Griffin and Co., Ltd.) 15s. net.

Guide to the Insects of Connecticut. Part iii., The Hymenoptera or Wasp-like Insects of Connecticut. Pp. 824. (Hartford, Conn.)

Glossary and Notes on Vertebrate Palæontology. By Rev. S. A. Pelly. Pp. ix+113. (London: Methuen and Co., Ltd.) 5s. net.

British Medicine in the War, 1914-1917. Pp. x+138. (London: British Medical Association.) 2s. 6d.

L'Evolution des Plantes. By Prof. N. Bernard. Pp. xxxii+314. (Paris: F. Alcan.) 3.50 francs.

Sir William Ramsay, K.C.B., F.R.S.: Memorials of his Life and Work. By Sir W. A. Tilden. Pp. xvi+311. (London: Macmillan and Co., Ltd.) 10s. net.

NO. 2534, VOL. 101]

DIARY OF SOCIETIES.

THURSDAY, MAY 23.

ROYAL INSTITUTION, at 3.—The Abode of Snow; Its Appearance, Inhabitants, and History: Sir Francis Younghusband.

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Some Transient Phenomena in Electrical Supply Systems: Prof. E. W. Marchant.

FRIDAY, MAY 24.

ROYAL INSTITUTION, at 5.30.—Internal Ballistics: Lt.-Col. A. G. Hadcock.

LINNEAN SOCIETY, at 3.—Anniversary Meeting.

SATURDAY, MAY 25.

ROYAL INSTITUTION, at 3.—Problems in Bird-Migration: Prof. C. J. Patten.

MONDAY, MAY 27.

ARISTOTELIAN SOCIETY, at 8.—The "Modes" of Spinoza and the "Monads" of Leibniz: Prof. G. Dawes Hicks.

ROYAL GEOGRAPHICAL SOCIETY, at 5.30.—Anniversary Meeting.

TUESDAY, MAY 28.

ZOOLOGICAL SOCIETY, at 5.30.—A Case of Hermaphroditism in a Lizard, *Lacerta viridis*: Noel Taylor.—Fresh-water Fish as Food: G. Tate Regan.

INSTITUTION OF PETROLEUM TECHNOLOGISTS, at 8.—The Application of Electrical Power to Oilfield Requirements: J. Wilfred Burford.

WEDNESDAY, MAY 29.

ROYAL SOCIETY OF ARTS, at 4.30.—Organic Chemistry in Relation to Industry: Dr. M. O. Forster.

THURSDAY, MAY 30.

ROYAL INSTITUTION, at 3.—The Abode of Snow; its Appearance, Inhabitants, and History: Sir F. Younghusband.

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Annual General Meeting.

ROYAL SOCIETY OF ARTS, at 4.30.—The Cotton-mill Industry of India: Hon. Sir Dinshaw E. Wacha.

SATURDAY, JUNE 1.

ROYAL INSTITUTION, at 3.—Problems in Bird-migration: Prof. C. J. Patten.

CONTENTS.

PAGE

Montessori Educational Methods. By J. A. G.	221
Modern Industry	222
Ballistics	222
Our Bookshelf	223
Letters to the Editor:—	
The Supposed "Fascination" of Birds by Snakes.—	
Prof. Edward B. Poulton, F.R.S.	223
Scientific Tests for the Selection of Pilots for the	
Air Force. By Major Martin Flack	225
The Zinc Ore Resources of the Empire	226
The Decline in the Birth-rate	227
Sir Alexander Pedler, F.R.S. By W. A. T.	227
Notes	228
Our Astronomical Column:—	
Minor Planets	232
Currents in the Upper Air	232
Distance of the Orion Nebula	233
Terrestrial Magnetic Oscillations. By Dr. C. Chree,	
F.R.S.	233
Global Star Clusters. By Dr. A. C. D. Crommelin	
Frost in the United States	234
Construction for an Approximate Quadrature of the	
Circle. By W. W. Rouse Ball	234
Radiation and the Electron. (<i>Illustrated</i> .) By Prof.	
R. A. Millikan	234
University and Educational Intelligence	237
Societies and Academies	238
Books Received	240
Diary of Societies	240

Editorial and Publishing Offices:

MACMILLAN AND CO., LTD.,

ST. MARTIN'S STREET, LONDON, W.C.2.

Advertisements and business letters to be addressed to the Publishers.

Editorial Communications to the Editor.

Telegraphic Address: PHUSIS, LONDON.

Telephone Number: GERRARD 8830.