

Prof. F. E. Austin. Second edition. Pp. 17. (Hanover, N.H.: F. E. Austin.) 40 cents.

Medicinsk-Historiske Smaaskrifter, 12: Enkjoerningen. By A. Garboe. Pp. 119. (Kobenhavn: V. Trydes Forlag.)

Eight Lectures on Theoretical Physics, delivered at Columbia University in 1909, by Prof. W. Planck. Translated by Prof. A. P. Wills. Pp. ix+130. (New York: Columbia University Press.)

Four Lectures on Mathematics delivered at Columbia University in 1911. By Prof. J. Hadamard. Pp. v+52. (New York: Columbia University Press.)

The Rat: Reference Tables and Data for the Albino Rat and the Norway Rat. Compiled and edited by H. H. Donaldson. Pp. iii+278. (Philadelphia: Wistar Institute of Anatomy.) 3 dollars.

Memorial Volume of the Transcontinental Excursion of 1912 of the American Geographical Society of New York. Pp. xi+407. (New York: American Geographical Society.) 3 dollars.

Manual of the New Zealand Mollusca, by H. Suter. Atlas of Plates. 72 plates, with descriptions. (Wellington, N.Z.: J. Mackay.)

A Budget of Paradoxes. By A. de Morgan. Second edition. Edited by D. E. Smith. 2 vols. Vol. i., pp. viii+402. Vol. ii., pp. 387. (Chicago and London: The Open Court Publishing Company.) 30s. net.

The Embryology of the Honey Bee. By Dr. J. A. Nelson. Pp. 282+plates. (Princeton: Princeton University Press; London: Oxford University Press.) 8s. 6d. net.

Occasional Papers of the Boston Society of Natural History. vii.: Fauna of New England. 13: List of the Mollusca. By C. W. Johnson. Pp. 231 (Boston, Mass.)

Reports for the Year 1913-14 from those Universities and University Colleges in Great Britain which are in Receipt of Grant from the Board of Education. 2 vols. Vol. i., pp. xxxiii+554. Vol. ii., pp. 518. (London: H.M.S.O.; Wyman and Sons, Ltd.) 2s. 4d. and 2s. 1d. respectively.

DIARY OF SOCIETIES.

THURSDAY, JANUARY 13.

ROYAL SOCIETY OF ARTS, at 4.30.—The Romance of Indian Surveys: Sir T. H. Holdich.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Predetermination of the Performance of Dynamo-electric Machinery: Prof. Miles Walker.

MATHEMATICAL SOCIETY, at 5.30.—The Transition from Vapour to Liquid, when the Range of the Molecular Attractions is Sensible: Sir J. Larmor. —(1) A Note on the Uniform Convergence of the Fourier Series $\sum_{n=1}^{\infty} \frac{\cos nx}{n}$; (2) A Condition for the Validity of Taylor's Expansion: T. W. Chaundy.—The Average Order of the Arithmetical Functions $P(x)$ and $\Delta(x)$: G. H. Hardy.—Green's Dyadics in the Theory of Elasticity: C. E. Weatherburn.—A Problem in "Analysis Situs": G. N. Watson.

FRIDAY, JANUARY 14.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Occultations of Stars by the Moon, observed at the University Observatory, Warsaw, 1914-15: S. Tscherny.—(1) 8th Note on the number of faint stars with large proper motions; (2) The distribution in space of the stars in Zone +25° of the Oxford Astrographic Catalogue: R. J. Pocock.—Real Paths of 250 Fireballs and Shooting Stars observed in the British Isles during the four years 1912 to 1915 inclusive: W. F. Denning.—Note on lines of Silicon in the Spectra of B Stars: A. Fowler.—The R-D discordance of the Greenwich transit-circle, Royal Observatory, Greenwich.

MALACOLOGICAL SOCIETY, at 7.—The Operculum of the Genus Bursa (Ranella) Rev. A. H. Cooke.—The Shells of the South African Species of Lepidæ: E. A. Smith.—(1) A Volume of Plates Prepared by Rackett for the Second Edition of Pulteney's "Dorsetshire Shells" in Hutchin's "History of Dorset"; (2) Lovell Reeve's "Elements of Conchology," with some Dates of Publication: A. Reynell.

TUESDAY, JANUARY 18.

ROYAL INSTITUTION, at 3.—The Physiology of Anger and Fear: Prof. C. S. Sherrington.

ROYAL STATISTICAL SOCIETY, at 5.15.

INSTITUTION OF PETROLEUM TECHNOLOGISTS, at 8.—Oil Storage: H. Barringer.

MINERALOGICAL SOCIETY, at 5.30.—A Simple Demonstration of the Law of Miller: Prof. G. Cesàro.—The Meteorite of Daniels Kuil: Dr. G. T. Prior.—The Relationships of Meteorites: Dr. G. T. Prior.—The Isolation of the Directions-image of a Section of a Mineral in a Rock-slice: Dr.

J. W. Evans.—A New Method of Determining the Angular Direction Represented by a Point in the Directions-Image: Dr. J. W. Evans.—A New (Seventh) List of Mineral Names: L. J. Spencer.

WEDNESDAY, JANUARY 19.

ROYAL METEOROLOGICAL SOCIETY, at 7.30.—Presidential Address: Winter Climate of the Eastern Mediterranean: Major H. G. Lyons.

GEOLOGICAL SOCIETY, at 5.30.

ROYAL SOCIETY OF ARTS, at 4.30.—The Common Lands of London: The Story of their Preservation: L. W. Chubb.

ENTOMOLOGICAL SOCIETY, at 8.

THURSDAY, JANUARY 20.

ROYAL INSTITUTION, at 3.—The Utilisation of Energy from Coal: The Chemistry and Economics of Coal and its By-Products: Prof. W. A. Bone.

LINNEAN SOCIETY, at 5.—The Definition of "Right" and "Left" in relation to Coiled, Rolled, Revolving, and Similar Objects: a Problem in Scientific Terminology: Miller Christy.—Some Aspects of the Bagshot Sands Flora: H. W. Monckton.—Colour-photographs of Mollusca: B. B. Woodward.

ROYAL GEOGRAPHICAL SOCIETY, at 5.—The Middle Tees and its Tributaries: C. B. Fawcett.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Principles of Modern Printing Telegraphy: H. H. Harrison.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Principles of Modern Printing Telegraphy: H. H. Harrison.

FRIDAY, JANUARY 21.

ROYAL INSTITUTION, at 5.30.—Problems in Capillarity: Sir James Dewar. INSTITUTION OF MECHANICAL ENGINEERS, at 6.—The Flow of Air through Nozzles: Capt. T. B. Morley.

CONTENTS.

	PAGE
American Steel Structures	531
Canada. By G. W. L.	531
Practical Bio-Chemistry. By Dr. A. Harden, F.R.S.	532
Tineid Moths of Central America. By Hugh Scott	533
Botany, Nature Study, and Gardening. By F. C.	534
Our Bookshelf	535
Letters to the Editor:—	
The Organisation of Science.—Sir Ronald Ross, K.C.B., F.R.S.	536
Germany's Supplies of Nitric Acid.—W. R.	537
National Technical Training.—W. H. F. Murdoch	537
War Economy and Agricultural Education	538
The History of Babylon. (Illustrated.) By H. H.	539
Dr. Benjamin Williamson, F.R.S. By S. B. K.	541
Count Solms-Laubach, For. Mem. R.S. By D. H. S.	541
Notes	542
Our Astronomical Column:—	
Comet 1915e (Taylor)	547
Comet 1915a (Mellish)	547
The Spectrum of the Binary System 41 Eridani	547
The Constants of the Terrestrial Spheroid	547
Science at Educational Conferences. By G. F. Daniell	547
Prize Awards of the Paris Academy of Sciences, 1915	549
Wireless Communication	550
The Transmission of Bilharzia Disease by Snails. By J. W. W. S.	551
Modern Systems of Independent Lighting and Heating. II. (Illustrated.)	552
The British Mycological Society	553
Intensive Work in School Science. By Sir William Osler, Bart., F.R.S.	554
University and Educational Intelligence	555
Societies and Academies	556
Books Received	557
Diary of Societies	558

Editorial and Publishing Offices:

MACMILLAN & CO., LTD.,
ST. MARTIN'S STREET, LONDON, W.C.

Advertisements and business letters to be addressed to the Publishers

Editorial Communications to the Editor.

Telegraphic Address: PHUSIS, LONDON.

Telephone Number: GERRARD 8830.