

the McClean Solar Instruments. By J. B. Hubrecht. Pp. 77. (Cambridge: At the University Press.) 9s. net.

Heaton's Annual. Twelfth Year. Pp. 463. (Toronto: Heaton's Agency.) 5s.

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The Journal of the Institute of Metals. Vol. xiv., No. 2. Pp. ix+289. (London: Institute of Metals.) 21s. net.

Forty-fourth Annual Report of the Local Government Board, 1914-15. Supplement containing the Report of the Medical Officer for 1914-15. Pp. xxxiv+100. (London: H.M.S.O.; Wyman and Sons, Ltd.) 63d.

Proceedings of the Liverpool Geological Society. Cape Memorial Volume: On the Igneous and Pyroclastic Rocks of the Berwyn Hills (North Wales). By the late T. H. Cope. Pp. 115. (Liverpool: C. Tinling and Co., Ltd.)

Ray Society. The British Marine Annelids. Vol. iii., part ii. Plates. Polychæta—Opheliidæ to Ammocharidæ. By Prof. W. C. McIntosh. Plates lxxxviii-cxi. (London: Dulau and Co., Ltd.) 25s. net.

Memoirs of the Indian Museum. Vol. v., No. 3, December. Fauna of the Chilka Lake. Crustacea Decapoda. By S. Kemp. Pp. 199-325. (Calcutta: Indian Museum.) 9 rupees.

Board of Education. Examinations in Science and Technology, 1915. Examination Papers and Reports of Examiners. Pp. 140. (London: H.M.S.O.; Wyman and Sons, Ltd.) 9d.

A Critical Revision of the Genus Eucalyptus. By J. H. Maiden. Vol. iii., part 4. Pp. 63-79. (Sydney: W. A. Gullick.) 2s. 6d.

DIARY OF SOCIETIES.

THURSDAY, FEBRUARY 10.

ROYAL SOCIETY, at 4.30.—The Theory of the Helmholtz Resonator: Lord Rayleigh.—The Oxyhydrogen Flame Spectrum of Iron: Sir N. Lockyer and H. F. Goodson.—The Consumption of Carbon in the Electric Arc. III. The Anode Loss: W. G. D-field and M. D. Wall-r.—Surface Friction. Experiments with Steam and Water in Pipes: C. H. Lander.—The Structure of Broadened Spectrum Lines: T. R. Merton.

ROYAL INSTITUTION, at 3.—Measurement of the Brightness of Stars; Visual and Photographic Magnitudes: Sir F. W. Dyson.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Testing of Underground Cables with Continuous Current: O. L. Record.

OPTICAL SOCIETY, at 8.—Optical or Visual Signalling: Dr. W. J. Ettles.

MATHEMATICAL SOCIETY, at 5.30.—(1) Theorems on Straight Lines Intersecting at Right Angles; (2) The Classification of Rational Approximations: J. H. Grace.—Infinite Derivates: Mrs. G. C. Young.—The Bilinear Curvature and other Functions of Independent Directions on a Surface: E. H. Neville.—The Attraction of Equiangular Spirals: Dr. Brodetsky.

FRIDAY, FEBRUARY 11.

ROYAL INSTITUTION, at 5.30.—Egyptian Jewelry: Prof. W. M. Flinders Petrie.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Annual General Meeting.

PHYSICAL SOCIETY, at 5.—A General Bridge Method for Comparing the Mutual Inductance between Two Coils with the Self Inductance of one of them: Prof. C. H. Lees.—An Enclosed Cadmium-Vapour Arc Lamp: Dr. H. J. S. Sand, D.Sc.

MONDAY, FEBRUARY 14.

ROYAL SOCIETY OF ARTS, at 4.30.—Flemish Architecture: Rev. Dr. H. West.

TUESDAY, FEBRUARY 15.

ROYAL INSTITUTION, at 3.—Nerve Tone and Posture: Prof. C. S. Sherrington.

ROYAL STATISTICAL SOCIETY, at 5.15.

INSTITUTION OF PETROLEUM TECHNOLOGISTS, at 8.—Oil Shales, especially those of Dorsetshire: W. Hardy Mansfield.

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WEDNESDAY FEBRUARY 16.

ROYAL SOCIETY OF ARTS, at 4.30.—Women's Work During and After the War: The Hon. Lady Parsons.

ROYAL MICROSCOPICAL SOCIETY, at 8.—The Progress and Development of Vision and Definition under the Microscope: Messrs. Heron-Allen Earland, and Rousselet.—An Experiment with the Ultra-microscope: J. E. Barnard.

ROYAL METEOROLOGICAL SOCIETY, at 7.30.—The Rainfall of Nigeria and the Gold Coast: C. E. P. Brooks.—South African Coast Temperatures: Dr. J. R. Sutton.

THURSDAY, FEBRUARY 17.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: The Action of Cobra Venom: Prof. A. R. Cushny and S. Yagi.—Gametogenesis and Sex Determination in the Gall-fly, *Neuroterus lenticularis*. III.: L. Doncaster.—The Structure and Development of the Skull and Laryngeal Cartilages of Perameles, with Notes on the Cranial Nerves: Philippa C. Esdalle.—Physiological Investigations with Petiole-Pulvinus Preparation of Mimosapudica: J. C. Bose and S. C. Das.

ROYAL INSTITUTION, at 3.—Variable Stars: Sir F. W. Dyson.

ROYAL GEOGRAPHICAL SOCIETY, at 5.—A Synthetic Method of Determining Geographical Regions: Dr. J. F. Unstead.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Kelvin Lecture: Terrestrial Magnetism: Dr. C. Chree.

ROYAL SOCIETY OF ARTS, at 4.30.—The Saints of Pandharpur: C. A. Kincaid, C.V.O.

LINNEAN SOCIETY, at 5.—John Bartram; the Pioneer American Botanist: Miss C. Herring-Brown.—Acorn Producing Twin Plants: Miss M. Rathbone.—Winter and Summer Coloration of the Ermine, *Putorius ermineus*: E. S. Goodrich.—The Infestation of Bamboos in Tidal Waters by *Balanus amphitrite* and *Teredo navalis* in Tenasserim: E. P. Stebbing.

FRIDAY, FEBRUARY 18.

ROYAL INSTITUTION, at 5.30.—Polarised Light and its Application to Engineering: Prof. E. G. Coker.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Annual General Meeting.

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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.