

BOOKS RECEIVED.

Trattato di Chimica Generale et Applicata all' Industria. Vol. i., Chimica Inorganica. By Prof. E. Molinari. Parte Prima. Pp. xiv+560. (Milano: U. Hoepli.) 12.50 lire.

The Cambridge Pocket Diary, 1917-18. Pp. xv+261. (Cambridge: At the University Press.)

With the French Flying Corps. By C. D. Winslow. Pp. 190. (London: Constable and Co., Ltd.) 3s. 6d. net.

Plant Materials of Decorative Gardening: The Woody Plants. By Prof. W. Trelease. Pp. 204. (Urbana: The Author.)

The Museum: A Manual of the Housing and Care of Art Collections. By M. T. Jackson. Pp. xi+280. (London: Longmans and Co.) 6s. 6d. net.

A Treatise on the Elements of Electrical Engineering. Vol. i., Direct and Alternating Current Machines and Systems. By W. S. Franklin. Pp. x+465. (New York: The Macmillan Co.; London: Macmillan and Co., Ltd.) 4.50 dollars.

The R.P.A. Annual for 1918. (London: Watts and Co.) 1s. net.

Charles Blount, Gent.: His Life and Opinions, to which is added the Second Apparition of Mrs. Veal. By Mysticus. Pp. 40. (London: Watts and Co.) 6d. net.

Memoirs of the Geological Survey. Summary of Progress of the Geological Survey of Great Britain and the Museum of Practical Geology for 1916. Pp. iv+56. Explanation of Sheet 248. The Geology of the South Wales Coalfield. Part iv., The Country around Pontypridd. By Dr. A. Strahan, R. H. Tidde- man, and Dr. W. Gibson. Second edition. Revised by Dr. W. Gibson and T. C. Cantrill. Pp. ix+160. (London: H.M.S.O.; E. Stanford, Ltd.) 1s. 6d. net and 3s. 6d. net respectively.

DIARY OF SOCIETIES.

THURSDAY, NOVEMBER 1.

ROYAL SOCIETY, at 4.30.—The Reflexion of Light from a Regularly Stratified Medium: Lord Rayleigh.—Two Cases of Congenital Night-blindness: Sir William Abney.—Duration of Luminosity of Electric Discharge in Gases and Vapours. Further Studies: Hon. R. J. Strutt.—Surface Reflexion of Earthquake Waves: G. W. Walker.—Characteristic Frequency and Atomic Number: Dr. H. S. Allen.

CHEMICAL SOCIETY, at 8.—7.7.3: 4-Dinitrotetraphenylfuran: A. G. Francis.—Studies in Catalysis. VIII. Thermochemical Data and the Quantum Theory. High Temperature Reactions: W. C. McC. Lewis.—Studies in the Phenylsuccinic Acid Series. V. The Interconversion of the Esters of *o*- and *meso*-diphenylsuccinic acid: H. Wren and C. J. Still.—Metal-analogues of Carbon (deduced from solubility relationships). I.: S. S. Sahni.—“Uniform Movement” during the Propagation of Flame: W. Mason and R. V. Wheeler.—Studies upon the Sulphonation of Betanaphthylamine: A. G. Green and K. H. Vakil.—The Limitations of the Balance: B. Blount.

MATHEMATICAL SOCIETY, at 5.—Annual General Meeting.—Tetrahedra in Relation to Spheres and Quadrics: J. H. Grace.—The Continuation of the Hypergeometric Series: Prof. M. J. M. Hill.—Restricted Fourier Series and the Convergence of Power-series: Prof. W. H. Young.—Invariants and Covariants of Linear Homogeneous Differential Equations: Prof. E. B. Stouffer.—The Simultaneous System of Two Quaternary Quadratic Forms: H. W. Turnbull.

MONDAY, NOVEMBER 5.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—Patent Law in Relation to British Chemical Industry: Dr. F. W. Hay.

TUESDAY, NOVEMBER 6.

MINERALOGICAL SOCIETY (Anniversary Meeting), at 5.30.—Etched Crystals of Gypsum: Miss E. Smith.—The Mesosiderite-Grahamite Group of Meteorites: Dr. G. T. Prior.—Changing the Plane of a Gnomonic or Stereographic Projection: Prof. H. Hilton.—Cleavage Angles in a Random Section of a Crystal: Prof. H. Hilton.

ZOOLOGICAL SOCIETY, at 5.30.—Lantern Exhibition of Photographs of Mammals and Reptiles from the Society's Gardens: D. Seth-Smith.—Some Additions to the known Dragonfly Fauna of Borneo, with an account of New Species of the Genus *Coleficcia*: Lieut. F. F. Laidlaw.—The Use of the Names Plesiosauria and Sauropterygia: G. A. Boulenger.—Some Observations upon Concealment by the Apparent Disruption of Surface in a Plane at Right Angles to the Surface: J. C. Mottram.

RÖNTGEN SOCIETY, at 8.15.—Presidential Address: The Part Played by X-rays in the War: Captain G. W. C. Kaye.

INSTITUTION OF CIVIL ENGINEERS, at 5.30.—Presidential Address: H. E. Jones.

WEDNESDAY, NOVEMBER 7.

GEOPHYSICS COMMITTEE, at 5.—Magnetic Surveys and Charts: Dr. S. Chapman.—Magnetic Survey of the United Kingdom: Dr. G. W. Walker. FARADAY SOCIETY, at 8.—General Discussion on Pyrometers and Pyrometry: Introductory Address: Sir Richard Glazebrook.—High Temperature Production and its Measurement: Dr. E. F. Northrup (Trenton, N.J.).—Pyrometer Standardisation: Dr. Ezer Griffiths and F. H. Schofield.—The Advantage of Burying the Cold Junction of a Thermocouple as a means of Maintaining it at a Constant Temperature: R. S. Whipple.—The Automatic Control Measurement of High Temperatures: Richard P. Brown (Philadelphia).—Pyrometry applied to the Hardening of High-speed Steel: Prof. J. O. Arnold.—Determining the Temperature of Liquid Metals by means of Optical Pyrometers: Cosmo Johns.—Pyrometry from the Standpoint of Ferrous Metallurgy: Dr. W. H. Hatfield.—The Measurement of High Temperature by means of Pottery Materials: H. Watkin.—Base-metal Thermo-electric Pyrometers: C. R. Darling.

SOCIETY OF PUBLIC ANALYSTS, at 8.—The Reducase Test for Milk: Paul S. Arup.—Note on Jets for Burettes: J. H. Coste.—Analytical Examination of Acorns and Chestnuts: Julian L. Baker and H. F. E. Hulton.

INSTITUTION OF CIVIL ENGINEERS, at 5.30.

GEOLOGICAL SOCIETY, at 5.30.—The Nimrud Crater in Turkish Armenia: Dr. Felix Oswald.

ENTOMOLOGICAL SOCIETY, at 8.

THURSDAY, NOVEMBER 8.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: The Structure, Evolution, and Origin of the Amphibia. I. The “Orders” *Rachitomi* and *Stereospondyli*: D. M. S. Watson.—The Enzymes concerned in the Decomposition of Glucose and Mannitol by *Bacillus coli communis*. II. Experiments of Short Duration with an Emulsion of the Organisms. III. Various Phases in the Decomposition of Glucose by an Emulsion of the Organisms: E. C. Grey.

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—President's Address: C. H. Wordingham.

OPTICAL SOCIETY, at 8.—Certain Optical Stores Captured from the Enemy: Lt.-Col. A. C. Williams.

FRIDAY, NOVEMBER 9.

ROYAL ASTRONOMICAL SOCIETY, at 5.

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