

An Intermediate Text Book of Magnetism and Electricity. By G. F. Woodhouse. Pp. x+264. (Sedburgh: Jackson and Son.) 6s. net.

Canada. Department of Mines. Preliminary Report on the Mineral Production of Canada during the Calendar Year 1915. Nos. 348, 349, 350, 383, 408. (Ottawa: Government Printing Bureau.)

Spitsbergen Waters. Oceanographic Observations during the Cruise of the *Veslemøy* to Spitsbergen in 1912. By F. Nansen. Pp. 132. (Christiania: J. Dybwad.)

Proceedings of the Geological Society of South Africa. To accompany vol. xviii. of the Transactions. January-December, 1915. Transactions of the Geological Society of South Africa. Vol. xviii. Pp. 134+plates xvi. (Johannesburg.)

The Purpose of Education. By St. George Lane Fox Pitt. New edition. Pp. xxviii+144. (Cambridge: At the University Press.) 2s. 6d. net.

The Value of Science in the Smithy and Forge. By W. H. Cathcart. Pp. xiv+163. (London: C. Griffin and Co., Ltd.) 4s. net.

A Guerra E. O. Pensamento Medico. By Prof. R. Jorge. Pp. 63. (Lisboa: Sociedade das Ciencias Medicas.)

Department of Commerce. Scientific Papers of the Bureau of Standards. No. 274. (Washington: Government Printing Office.)

Imperial Department of Agriculture for the West Indies. Sugar-Cane Experiments in the Leeward Islands. Report on Experiments conducted in Antigua and St. Kitts in the Season 1914-15. Parts i. and ii. Pp. 76. (Barbados.)

Yorkshire's Contribution to Science, with a Bibliography of Natural History Publications. By T. Sheppard. Pp. 233. (London: A. Brown and Sons, Ltd.) 5s. net.

Cassell's Modern School Series. Historical Section. The Tale of Ancient Peoples. By A. E. McKilliam. Pp. 128. The Tale of the Nations. By A. E. McKilliam. Pp. 160. (London: Cassell and Co., Ltd.) 10d. net and 1s. net respectively.

The Practical Principles of Plain Photo-Micrography. By G. West. Pp. xii+145+plates viii. (Dundee: The Author, University College.) 4s. 6d. net.

Anuario publicado pelo Observatorio Nacional do Rio de Janeiro, 1916. Anno xxxii. Pp. vi+259. (Rio de Janeiro.)

DIARY OF SOCIETIES.

THURSDAY, MAY 11.

ROYAL SOCIETY, at 4.30.—Seventh Memoir on the Partition of Numbers. A Detailed Study of the Enumeration of the Partitions of Multipartite Numbers: Major P. A. MacMahon.—Legendre's Functions  $P_n(\theta)$  when  $n$  is Great and  $\theta$  has any Value: Lord Rayleigh.—The Occurrence of Gelatinous Spicules and their Mode of Origin in a New Genus of Siliceous Sponges: Prof. A. Dendy.—The Classification of the Reptilia: E. S. Goodrich.—The Experimental Production of Congenital Goitre: Dr. R. McCarrison.

ROYAL INSTITUTION, at 3.—Flints and Flint Implements: Sir Ray Lankester.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Annual General Meeting. INSTITUTION OF MINING AND METALLURGY, at 5.30.—Discussion: The Influence of the War on the Mining and Metallurgical Industries.

FRIDAY, MAY 12.

ROYAL ASTRONOMICAL SOCIETY, at 5.—The Surface Currents of Jupiter in 1915-16: S. Bolton.—Observations of  $V$  Cassiopeiae in 1910-16: A. N. Brown.—The Certainty of the Canals of Mars: G. H. Hamilton.—The Illumination of the Field of a Photographic Objective: H. C. Lord.—The Law of Distribution in Star-clusters: J. H. Jeans.—The Efficiency of Sun Spots in Relation to the Mean Daily Range of Terrestrial Magnetic Declination: Rev. A. L. Cortie.—The Theory of Star-streaming and the Structure of the Universe. II: J. H. Jeans.—The Distribution of Stars in Globular Clusters: A. S. Eddington.—Stars with Large Proper Motion between Declination  $65^\circ$  and the North Pole: Royal Observatory, Greenwich.—Solar Prominence in 1915: G. J. Newbigin.

PHYSICAL SOCIETY, at 5.—The Latent Heats of Fusion of Metals and the Quantum Theory: Dr. H. S. Allen.—(1) Lenses for Light Distribution; (2) The Choice of Glass for Cemented Objectives: T. Smith.

MALACOLOGICAL SOCIETY, at 7.—Descriptions of New Mollusca: G. B. Sowerby.—Solander as a Conchologist: T. Iredale.—Misnamed Tasmanian Chitons: T. Iredale and W. L. May.

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SATURDAY, MAY 13.

ROYAL INSTITUTION, at 3.—X-Rays and Crystals: Prof. W. H. Bragg.

MONDAY, MAY 15.

ARISTOTELIAN SOCIETY, at 8.—Symposium at Oxford—The Theory of the State: Hon. B. Russell, S. Ball, C. D. Burns, and G. D. H. Cole.

ROYAL SOCIETY OF ARTS, at 4.30.—Vibrations, Waves, and Resonance: Dr. J. Erskine-Murray.

TUESDAY, MAY 16.

ROYAL INSTITUTION, at 3.—Unconscious Nerves—their Functions in Internal Life: Prof. C. S. Sherrington

ROYAL STATISTICAL SOCIETY, at 5.15. INSTITUTION OF PETROLEUM TECHNOLOGISTS, at 8.—Petroleum Refining: A. Campbell.

WEDNESDAY, MAY 17.

ROYAL METEOROLOGICAL SOCIETY, at 4.30.—The Re-adjustment of Pressure Differences—Two Species of Atmospheric Circulation and their Connection: L. C. W. Bonacina.

ROYAL MICROSCOPICAL SOCIETY, at 8.—Some Suggestions regarding Visual Efficiency in the Use of the Microscope and other Optical Instruments: J. W. Purkiss.—A Case of Apparent Intelligence exhibited by a Marine Tube-bearing Worm, *Tercebella conchilega*: A. T. Watson.—Alien Oligochaets in England: Rev. Hilderic Friend.

ROYAL SOCIETY OF ARTS, at 4.30.—Hindu Hand-painted Calicoes of the Seventeenth and Eighteenth Centuries, and their Influence on the Tinctorial Arts of Europe: G. P. Baker.

THURSDAY, MAY 18.

ROYAL SOCIETY, at 4.30. ROYAL INSTITUTION, at 3.—Flints and Flint Implements: Sir Ray Lankester.

FRIDAY, MAY 19.

ROYAL INSTITUTION, at 5.30.—The Movements of the Earth's Pole: Col. E. H. Hills.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Spur-Gearing: D. Adamson.

SATURDAY, MAY 20.

ROYAL INSTITUTION, at 3.—The Finance of the Great War—New Problem and New Solutions: Prof. H. S. Foxwell.

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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.