

Practical Mathematics for Technical Students. Part I. By T. S. Usherwood and C. J. A. Trimble. Pp. 370. (London: Macmillan and Co., Ltd.) 3s. 6d.

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Royal Botanic Gardens, Kew. Bulletin of Miscellaneous Information, 1913. Pp. iv+426+iv appendices. (London: H.M.S.O.; Wyman and Sons, Ltd.) 4s. 6d.

The Theory of Proportion. By Prof. M. J. M. Hill. Pp. xx+108. (London: Constable and Co., Ltd.) 8s. 6d. net

DIARY OF SOCIETIES.

THURSDAY, FEBRUARY 19.

ROYAL SOCIETY, at 4.30.—The Brain of Primitive Man, with Special Reference to the Cranial Cast and Skull of Eoanthropus (The Piltdown Man): Prof. G. Elliot Smith.—Oxidases: Prof. A. J. Ewart.—A New Malaria Parasite of Man: Dr. J. W. W. Stephens.—Investigations Dealing with the Phenomena of "Clot" Formations. II: The Formation of a Gel from Cholate Solutions having many Properties Analogous to those of Cell Membranes: S. B. Schryver.—The Influence of the Position of the Cut upon Regeneration in *Gunda ulvae*: D. Jordan Lloyd.

INSTITUTION OF MINING AND METALLURGY, at 8.15.—The Assay of Tin Ores: H. W. Hutchin.—The Assay of Tin Ores and Concentrates: The Pearce-Low Method: E. A. Wraight and P. Litherland Teed.—Formation of Mineral Deposits: Precipitation and Stratification in the Absence of Gels: W. P. Dreaper.—A Device for Filling Ore Sacks: T. R. Archbold.—A Mining Model: E. O. Marks.

LINNEAN SOCIETY, at 8.—The Origin of Species by Crossing: Dr. J. P. Lott.

CHILD STUDY SOCIETY, at 7.30.—Speech Defects of Children and their Treatment: Dr. E. W. Scripture.

FRIDAY, FEBRUARY 20.

ROYAL INSTITUTION, at 9.—Busts and Portraits of Shakespeare and of Burns: An Anthropological Study: Prof. Arthur Keith.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Annual General Meeting.—Some Modern Methods of Welding: T. T. Heaton.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Use of Reinforced Concrete in Connection with Dock and Other Maritime Work: C. S. Meik.

SATURDAY, FEBRUARY 21.

ROYAL INSTITUTION, at 3.—The Electric Emissivity of Matter: Dr. J. A. Harker.

MONDAY, FEBRUARY 23.

ROYAL SOCIETY OF ARTS, at 8.—Artistic Lithography: J. Pennell.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—The Sea Route to Siberia: Dr. Fridtjof Nansen and J. Lied.

TUESDAY, FEBRUARY 24.

ROYAL INSTITUTION, at 3.—Animals and Plants under Domestication: Prof. W. Bateson.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—The Bantu Coast Tribes of the East African Protectorate: Miss A. Werner.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Rail-steels for Electric Railways: W. Wilcox.—Rail-corrugation and its Causes: S. P. W. D'Alte Selson.

WEDNESDAY, FEBRUARY 25.

ROYAL SOCIETY OF ARTS, at 8.—Rural Housing: T. Brice Phillips.

GEOLOGICAL SOCIETY, at 8.—Acid and Intermediate Intrusions and Associated Ash-Necks in the Neighbourhood of Melrose (Roxburghshire): Rachel W. McRobert.—Correlation of the Dinantian and the Avonian: Dr. A. Vaughan.

THURSDAY, FEBRUARY 26.

ROYAL SOCIETY, at 4.30.—Probable Papers: The Diffraction of Light by Spheres of Small Relative Index: Lord Rayleigh.—(1) Studies of the Properties Operative in Solutions. XXXI. Sulphonic Acids and Sulphuric Acid as Hydrolytic Agents: A Discussion of the Constitution of Sulphuric and other Polybasic Acids and of the Nature of Acids; (2) Studies of the Properties Operative in Solutions. XXXII. The Influence of Sulphonates on the Hydrolytic Activity of Sulphonic Acids: A Contribution to the Discussion on the Influence of Neutral Salts: Prof. H. E. Armstrong and

Prof. F. P. Worley.—Morphological Studies of Benzene Derivatives. V. The Correlation of Crystalline Form. with Molecular Structure: A Verification of the Barlow Pope Conception of "Valency-Volume": Prof. H. E. Armstrong. R. T. Colgate, and E. H. Rodd.—The Magnetic Properties of Iron when Shielded from the Earth's Magnetism: Prof. E. Wilson.—The Occurrence of Ozone in the Upper Atmosphere: Dr. J. N. Pring.—(1) A Meteoric Iron from Winburg, Orange Free State; (2) The Electrification Produced during the Raising of a Cloud of Dust: W. A. D. Rudge.—The Electrical Ignition of Gaseous Mixtures: Prof. W. M. Thornton.

CONCRETE INSTITUTE, at 7.30.—Calculations and Details for Steel-frame Buildings from the Draughtsman's Standpoint: Cyril W. Cocking.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Motor and Control Equipments for Electric Locomotives: F. Lydall.

SOCIETY OF DYERS AND COLOURISTS, at 8.—The Industrial Possibilities of Nitrocellulose: C. A. Higgins.—Notes on the Fading of Dyed Silk: A. Jones and G. W. Parr.

FRIDAY, FEBRUARY 27.

ROYAL INSTITUTION, at 9.—Surface Combustion: Prof. W. A. Bone.

SWEDENSBORG SOCIETY, at 8.15.—The Body and the Soul in Swedenborg's Philosophy: Dr. L. de Beaumont-Klein.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Use of Reinforced Concrete in Connection with Dock and other Maritime Work: C. S. Meik.

SATURDAY, FEBRUARY 28.

ROYAL INSTITUTION, at 3.—Recent Discoveries in Physical Science: Sir J. J. Thomson.

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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.