Die Oekologie der Pflanzen. By Dr. O. Drude. Pp. x+308. (Braunschweig: F. Vieweg und Sohn.) 10 marks.

A National System of Education. By J. H. Whitehouse. Pp. 92. (Cambridge University Press.) 2s. 6d. net.

Smithsonian Miscellaneous Collections. Vol 61, No. 1, The White Rhinoceros. By E. Heller. Pp. 77+31 plates. (Washington: Smithsonian Institution.)

Annual Report of the Board of Regents of the Smithsonian Institution for the Year Ending June 30, 1912. Pp. xii+780+plates. (Washington: Government Printing Office.)

Text-Book of Paleontology. Edited by Prof. C. R. Eastman. Adapted from the German of Karl A. von Zittel. Second edition, revised and enlarged. Vol. i. Pp. x+839. (London: Macmillan and Co., Ltd.) 25s. net.

The Snakes of Europe. By Dr. G. A. Boulenger. Pp. xi+269+xiv plates. (London: Methuen and Co., Ltd.) 6s.

A First Numerical Trigonometry. By W. G. Borchardt and the Rev. A. D. Perrott. Pp. xi+159+xvii+xvii. (London: G. Bell and Sons, Ltd.) 2s. 6d.

Icones Orchidearum Austro-Africanarum Extra-Tropicarum; or, Figures, with Descriptions of Extra-Tropical South African Orchids. By H. Bolus. Vol. iii. Pp.+plates 1–100. (London: W. Wesley and Son.)

Die Atome. By Prof. J. Perrin. Mit Autorisation des Verfassers Deutsch herausgegeben von Dr. A. Lottermoser. Pp. xx+196. (Dresden and Leipzig: T. Steinkopff.) 5 marks

DIARY OF SOCIETIES.

THURSDAY, NOVEMBER 27.

ROYAL SOCIETY, at 4.30.—A Method of Measuring the Pressure Produced in the Detonation of High Explosives or by the Impact of Bullets: Prof. B. Hopkinson.—Gravitational Instability and the Nebular Hypothesis: J. H. Jeans.—The Diffraction of Light by Particles comparable with the Wave-length: B. A. Keen and Prof. A. W. Porter.—Note on the Colour of Zircons, and its Radio-active Origin: Prof. R. J. Strutt.—The Influence of the Constituents of the Crystal on the Form of the Spectrum in the X-ray Spectrometer: Prof. W. H. Bragg.—The Analysis of Crystals by the X-ray Spectrometer: W. L. Bragg.—Ship Resistance: The Wave-making Properties of Certain Travelling Pressure Disturbances: Dr. T. H. Havelock.—The Mathematical Representation of a Light Pulse: Dr. R. A. Houstoun.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—The Characteristics of Insulation Resistance: S. Evershed.

CONCRETE INSTITUTE, at 7.30.—The Differential and Integral Calculi for Structural Engineers: W. A. Green.

FRIDAY, NOVEMBER 28.

JUNIOR INSTITUTION OF ENGINEERS, at 8.—Patent Protection: A. Abbey.

PHYSICAL SOCIETY, at 5.—The Expansion of Silica: Prof. H. L. Callendar.—The Thermal Expansion of Mercury and Fused Silica: F. J. Harlow.—An Experimental Method for the Production of Vibrations on Strings, Prof. J. A. Fleming.—A Double-fibre String Galvanometer: W. Apthorpe.

SATURDAY, NOVEMBER 29.

ESSEX FIELD CLUB (at the Essex Museum of Natural History, Stratford) at 6.—Autumn Botany at Clacton: C. E. Britton.—Report of Club's Delegate at the Meeting of the British Association at Birmingham, 1913: J. Wilson.—A Demonstration on the Nano-Plankton of Freshwater Ponds and Lake, as Revealed by the Use of the Centrifuge: D. J. Scourfield. The Occurrence of Rhaxella-chert in the Epping Forest Gravels: P. G. Thompson.—Notes on the Plant-seeds found during Excavation of the Romano-British Barrow on Mersea Island: S. Hazzledine Warren.

MONDAY, DECEMBER 1.

SOCIETY OF ENGINEERS, at 7.30.—The Corrosion and Rusting of Iron: E. K. Rideal.

ARISTOTELIAN SOCIETY, at 8.—Feeling: Prof. J. A. Smith.

SOCIETY OF CHEMICAL INDUSTRY, at 8.—Use of Antiseptics for Soil Sterilisation Purposes: Dr. E. J. Russell and Mr. Buddin.

ROYAL SOCIETY OF ARTS, at 8.—Cantor Lecture—The Measurement of Stresses in Materials and Structures: Prof. E. G. Coker.

TUESDAY, DECEMBER 2.

RÖNTGEN SOCIETY, at 8.15.—Sterilisation of Milk by Electrified Gas: Dr. Hampson, Prof. W. G. Duffield, and T. Murray.—Radium-emanation Applicators: C. E. S. Phillips

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Japanese Minor Magic connected with the Propagation and Early Infancy of Children: W. L. Hildburgh.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Transandine Railway: B. H. Henderson.

WEDNESDAY, DECEMBER 3.

AËRONAUTICAL SOCIETY, at 8.30.—The Coming Airship: Captain C. M. Waterlow.

GEOLOGICAL SOCIETY, at 8.—(1) A Contribution to our Knowledge of the Geology of the Kent Coalfield; (2) The Fossil Floras of the Kent Coalfield: Dr. E. A. Newell Arber.

ROYAL SOCIETY OF ARTS, at 8.—Perfumery: J. C. Umney.

SOCIETY OF PUBLIC ANALYSTS, at 8.—Sulphuretted Hydrogen from Artificial Graphite: W. H. Woodcock and B. Blount.—The Determination of Strychnine in the Presence of Quinine: C. Simmonds.—The Rate of Liberation of Hydrocyanic Acid from Linseed: S. Collins and H. Blair.—The Composition of Palm-Kernel Oil: G. D. Elsdon.

ENTOMOLOGICAL SOCIETY, at 8.—New South American Butterflies: W. F. H. Rosenberg and G. Talbot.

THURSDAY, DECEMBER 4.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: (1) A Method of Studying Transpiration; (2) The Effect of Light on the Transpiration of Leaves: Sir Francis Darwin.—Dimensions of Chromosomes considered in Relation to Phylogeny: Prof. J. B. Farmer and L. Digby.—The Process of Calcification in Enamel and Dentine: J. H. Mummery.—The Optimum Temperature of Salicin Hydrolysis by Enzyme Action is Independent of the Concentrations of Substrate and Enzyme: A. Compton.—The Ratio between Spindle Lengths in the Spermatocyte Metaphases of Heliae Pomatia: C. F. U. Meek.—Egyptian Blue: Dr. A. P. Laurie, W. F. P. McLintock and F. D. Miles.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Electricity Supply in Large Cities: Dr. G. Klingenberg.

LINNEAN SOCIETY, at 8.—Wild Wheat from Mount Hermon, *Triticum dicoccoides* Koern: Prof. J. Percival.—Neurotes, a New Genus of Mymaridæ, from Hastings: F. Enock.—A Contribution to the Study of the Evolution of the Flower; with Special Reference to the Hamamelidaceæ, Caprifoliaceæ and Cornaceæ: A. S. Horne.—The Mollusca of the River Nile: Mrs. Longstaff.

FRIDAY, DECEMBER 5.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Thomas Hawksley Lecture: Water as a Mechanical Agent: E. B. Ellington.

JUNIOR INSTITUTION OF ENGINEERS, at 8.—Presidential Address: Sir Boverton Redwood, Bart.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Liverpool Street Extension of the Central London Railway: H. V. Hutt.

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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.