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Index Zoologicus. No. II. Compiled (for the Zoological Society of London) by C. O. Waterhouse and edited by D. Sharp. Pp. iv+324. (London: The Zoological Society of London.) 15s.

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The Scientist's Reference Book and Diary, 1913. (Manchester: J. Woolley, Sons and Co., Ltd.)

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The "Wellcome" Photographic Exposure Record and Diary, 1913. (London: Burroughs, Wellcome and Co.)

DIARY OF SOCIETIES.

THURSDAY, DECEMBER 5.

ROYAL SOCIETY, at 4.30.—A Gregarine, *Steinina rotundata*, nov. sp., present in the Mid-gut of Bird Fleas of the Genus *Ceratophyllus*: Dr. J. H. Ashworth and Dr. T. Rennie.—(1) The Size of the Aorta in Warm-blooded Animals and its Relationship to the Body Weight and to the Surface Area expressed in a Formula; (2) The Size of the Trachea in Warm-blooded Animals and its Relationship to the Weight, the Surface Area, the Blood Volume and the Size of the Aorta: Prof. G. Dreyer, W. Ray, and E. W. A. Walker.—Studies of the Processes Operative in Solutions. (1) The Conversion of Ammonic Cyanate into Urea, especially as Influenced by Alcohols: E. E. Walker; (2) The Hydrolysis of Cane Sugar by Dilute Acids; (3) The Hydrolysis of Cane Sugar by Sulphuric Acid, with a Note on Improvements in Polarimetric Apparatus; (4) The Hydrolysis of Methyl Acetate by Acids: F. P. Worley; (5) The Nature of Hydrolytic Process: Dr. H. E. Armstrong and F. P. Worley.—The Direct Production of Characteristic Röntgen Radiations by Kathode Particles: Dr. R. T. Beatty.—The Penetrating Power of the γ Rays from Radium C: A. S. Russell.—The Photo-electric Behaviour of Iron in the Active and Passive State: Dr. H. S. Allen.—A Determination of the Radiation Constant: H. B. Keene.—Physiological Observations made on Pike's Peak, Colorado, with Special Reference to Adaptation to Low Barometric Pressures: C. G. Douglas, Dr. J. S. Haldane, Y. Henderson and E. C. Schneider.—Notes on the Life History of *Trypanosoma gambiense*, with a Brief Reference to the Cycles of *Trypanosoma nanum* and *Trypanosoma peccorum* in *Glossina palpalis*: Muriel Robertson.

LINNEAN SOCIETY, at 8.—Notes on Two Orchids New to East Sussex, and on several Rarer Species of Orchidaceæ: E. J. Bedford.—The Hebridean Diagona described as "Syntethys," and other Exhibits from the Cruise of the S.Y. *Rona* in 1912: Prof. W. A. Herdman.—Nature Camera Work, an Attempt to Combine Photography with Drawing in Body-colour: Miss Maud Unfrville Clarke.—Coloured Drawings of South African Plants: Miss Mary W. Johnstone.

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SOCIETY OF DYERS AND COLOURISTS, at 7.30.—The Fellmongering of Sheep Skins and its Bearing on Leather Dyeing: M. C. Lamb.

MONDAY, DECEMBER 9.

ROYAL SOCIETY OF ARTS, at 8.—Methods of Economising Heat: C. R. Darling.

TUESDAY, DECEMBER 10.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.30.—Ancient and Modern Nubas: D. E. Derry.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Generation and Distribution of Producer-gas in South Staffordshire: H. A. Humphrey.

FARADAY SOCIETY, at 8.—The Electromotive Forces of Concentration Cells: Principal A. P. Laurie.

WEDNESDAY, DECEMBER 11.

ROYAL SOCIETY OF ARTS, at 8.—Natural and Synthetic Rubber: Dr. F. Mollwo Perkin.

AERONAUTICAL SOCIETY, at 8.30.—The Mathematical Theory of Aeroplane Stability: E. H. Harper.

THURSDAY, DECEMBER 12.

MATHEMATICAL SOCIETY, at 8.—Recent Advances in the Theory of Surfaces. Address by the ex-President (Dr. H. F. Baker), postponed from the November Meeting.—A Connection between the Functions of Hermite and Jacobi: H. E. J. Curzon.—The Equations of the Theory of Electrons Transformed Relative to a System in Accelerated Motion: H. R. Hassé.—The Convergence of Series of Orthogonal Functions: E. W. Hobson.—The Determination of the Nature of a Function from a Knowledge of One of its Derivatives: W. H. Young.—Mersenne's Primes: J. McDonnell.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—A Single Phase Motor with Pole Changing Windings: J. S. Nicholson and B. P. Haigh.

ROYAL SOCIETY OF ARTS, at 4.30.—Delhi, the Metropolis of India: Sir Bradford Leslie, K.C.I.E.

CONCRETE INSTITUTE, at 7.30.—The Effects on Concrete of Acids, Oils and Fats: Robert Cathcart and Laurence Gadd.

FRIDAY, DECEMBER 13.

ROYAL ASTRONOMICAL SOCIETY, at 5.

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