

DIARY OF SOCIETIES.

THURSDAY, NOVEMBER 11.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Accumulator Traction on Rails and Ordinary Roads : L. Epstein.  
 MATHEMATICAL SOCIETY, at 8.—On the Poncelet Polygons of a Limaçon : Prof. F. Morley.—On an Extension of the Exponential Theorem : J. E. Campbell.—The Integral  $\int P_n dx$  and Allied Forms in Legendre's Functions, between Arbitrary Limits : R. Ha greaves.—The Character of the General Integral of Partial Differential Equations : Prof. Forsyth, F.R.S.—The Calculus of Equivalent Statements (No. 7) : H. MacColl.

FRIDAY, NOVEMBER 12.

ROYAL ASTRONOMICAL SOCIETY, at 8.—On the Nature of the Orbit of  $\gamma$  Lupi : T. J. J. See.—List No. 4 of Nebulæ discovered at the Lowe Observatory : Lewis Swift.—Equatorial comparisons of Uranus with 41 Libræ, and a probable Occultation of the Star by the Planet : John Tebbutt.—On the Effect of Chromatic Dispersion of the Atmosphere on the Parallaxes of a Centauri and  $\beta$  Orionis ; and on a Method of Determining its Effect on the Value of the Solar Parallax derived from Heliometer Observations of the Minor Planets : David Gill.—The Great Equatorial Current of Jupiter : A. Stanley Williams.—Approximate Ephemeris of the Leonids from 1897 December 24 to 1898 April 8 : G. Johnstone Stoney.—On the Effect upon the Moon's Motion of a Hypothetical Change in the Law of Gravitation : Robert Bryant.—A Spectroscopic Method for Determining the Second and Third Contacts during a Total Eclipse of the Sun : Wm. Shackleton.—Note on a Result used by Prof. Wadsworth in several recently published Papers : H. F. Newall.  
 MALACOLOGICAL SOCIETY (in the apartments of the Linnean Society), at 8.—Malacological Notes made during a Journey through Russia ; with some Account of Dredgings in the Black Sea : G. F. Harris.—Description of a New Species of *Mülleria* from India : Edgar A. Smith.—Note on a Variety of *Rhaphanus Lorraini*, with a List of the known Species : Edgar A. Smith.—On *Streptaxis gracilis*, a New Species from Ceylon : Oliver Collett.—Revision of the New Zealand Rissoiæ : H. Suter.  
 PHYSICAL SOCIETY (in the rooms of the Chemical Society), at 4.—Council Meeting.—At 5.—On the Isothermals of Ether : J. Rose-Innes.—On the Variation with Temperature of the Electromotive Force of the H-Form of Clark Cells : F. S. Spiers and F. Twyman.

TUESDAY, NOVEMBER 16.

ZOOLOGICAL SOCIETY, at 8.30.—On British Medusæ : E. T. Browne.—On Three Consignments of Butterflies collected in Natal in 1896 and 1897 by Guy A. K. Marshall : Dr. A. G. Butler.—On the Sydney Busu-Rat (*Mus arboricola*) : Edgar B. Waite.  
 MINERALOGICAL SOCIETY, at 8.—Anniversary Meeting.—Election of Officers and Council.—On Angelite from Bolivia : L. J. Spencer.  
 INSTITUTION OF CIVIL ENGINEERS, at 8.—The Manchester Ship Canal : Sir E. Leader Williams.—The Eastham Division : Whately Elliot. The Runcorn Division : Sir E. Leader Williams. The Irlam Division : W. O. E. Meade-King.  
 ROYAL STATISTICAL SOCIETY, at 5.30.—Notes on the Subjects discussed at the Meeting of the International Statistical Institute at St. Petersburg, 1897 : Major P. G. Craigie.  
 ROYAL PHOTOGRAPHIC SOCIETY, 12 Hanover Square, W., at 8.—A Review of Triple Printing Methods : E. Sanger Shepherd.

WEDNESDAY, NOVEMBER 17.

SOCIETY OF ARTS, at 8.—The Colonies : their Arts, Manufactures, and Commerce : Sir Owen Tudor Burne.  
 GEOLOGICAL SOCIETY, at 8.—The Geology of Rotuma : J. S. Gardiner.—A Geological Survey of the Witwatersrand and other Districts in the Southern Transvaal : Dr. F. H. Hatch.—Observations on the Genus *Aclioina* de Koninck, with Descriptions of British Species and some other Carboniferous Gasteropoda : Jane Donald.  
 ENTOMOLOGICAL SOCIETY, at 8.—Some Results obtained from the Hybridisation of Allied Species : J. W. Tutt.  
 ROYAL METEOROLOGICAL SOCIETY (at the Institution of Civil Engineers), at 7.30.—Results of a Comparison between the Sunshine Records obtained simultaneously from a Campbell-Stokes Burning Recorder and from a Jordan Photographic Recorder : Richard H. Curt.s.  
 ROYAL MICROSCOPICAL SOCIETY, at 8.  
 SANITARY INSTITUTE, at 8.—A Discussion on the Pollution of Water Supplies by Encampments of Hop-Pickers, Casual Workers, Tramps, &c. : to be opened by Prof. W. H. Corfield, in reference to the Dangers of Pollution of Municipal Water Supplies ; and by Miss M. A. Chreiman, in reference to the Sanitary Control of Hop-Pickers, &c.

THURSDAY, NOVEMBER 18.

ROYAL SOCIETY, at 4.30.—Account of a Comparison of Magnetic Instruments at Kew Observatory : C. Chree, F.R.S.—Note on the Influence of very Low Temperatures on the Germinative Power of Seeds : H. T. Brown, F.R.S., and F. Escombe.—On the Structure and Affinities of Fossil Plants from the Palæozoic Rocks. II. On *Spencerites*, a New Genus of Lycopodiaceous Cones from the Coal Measures, founded on the *Lepidodendron Spenceri* of Williamson : D. H. Scott, F.R.S.—The Histology of the Cell-wall, with special reference to the Mode of Connection of Cells : W. Gardiner, F.R.S.—Mathematical Contributions to the Theory of Evolution. IV. On the Probable Errors of Frequency Constants, and on the Influence of Random Selection on Variation and Correlation : Prof. K. Pearson, F.R.S., and L. N. G. Filon.—On the Geometrical Treatment of the "Normal Curve" of Statistics, with special reference to Correlation, and to the Theory of Error : W. F. Sheppard.  
 LINNEAN SOCIETY, at 8.—On *Pontobolbos manauarensis* : Prof. A. Dendy.—On Haddonia, a New Genus of Foraminifera : F. Chapman.  
 CHEMICAL SOCIETY, at 8.—On the Decomposition of Camphoric Acid by Fusion with Potash or Soda : Dr. A. W. Crossley and W. H. Perkin, jun., F.R.S.—Experiments on the Synthesis of Camphoric Acid : W. H. Bentley and W. H. Perkin, jun., F.R.S.—The Action of Magnesium on Cupric Sulphate Solution : Dr. Frank Clowes and R. M. Caven.—Properties and Relationships of Di-hydroxytartaric Acid : H. J. Horstman Fenton.

BOOKS, PAMPHLETS, and SERIALS RECEIVED

BOOKS.—Memorials Journal and Botanical Correspondence of C. C. Babington, F.R.S. (Cambridge, Macmillan and Bowes).—North America. Vol. 1. Canada and Newfoundland : S. E. Dawson (Stanford).—Resultate der Wissenschaftlichen Reforschung des Balatonsees, Zweiter Band, Erster Theil (Wien. Hölzel).—Ba-u und Leben unserer Waldbäume : Dr. M. Büsigen (Jena, Fischer).—The Practice of Massage : A. S. Eccles, 2nd edition (Baillière).—Air, Food, and Exercises : Dr. A. Rabagliati (Baillière).—Gases : their Constitution and Functions : S. J. Corrigan, Part 3 (St. Paul, Minn.).—Die Zigeuner : Prof. G. Cora (Turin).—The Meteorology of Edinburgh : R. C. Mossman, 2 parts (Edinburgh, Grant).—A System of Medicine : edited by Dr. Clifford Allbutt, Vol. iv. (Macmillan).—Les Constantes Physico-Chimiques : D. Sidersky (Paris, Gauthier-Villars).—Bibliography of X-Ray Literature and Research (1896-97) : edited by C. E. S. Phillips (Electrician Company).—William Harvey : D'Arcy Power (Unwin).—A History of Fowling : Rev. H. A. Macpherson (Edinburgh, Douglas).—Botanisches Bilderbuch für Jung und Alt : F. Bley (Berlin, Schmidt).—University College, Nottingham, Calendar, 1897-98 (Nottingham, Sands).  
 PAMPHLETS.—Random Shots at Birds and Men : "Jim Crow" (Roxburgh Press).—Notions Générales sur L'Ecorce Terrestre : Prof. A. de Lapparent (Paris, Masson).  
 SERIALS.—Century Magazine, November (Macmillan).—Journal of the Sanitary Institute, October (Stanford).—Reale Istituto Lombardo di Scienze e Lettere, Rendiconti, serie II, Vol. xxx, Fasc. xvi. (Milano).—American Naturalist, October (Philadelphia).—Astrophysical Journal, October (Chicago).—The Atoll of Funafuti, Part 4 (Sydney).—Zeitschrift für Physikalische Chemie, xxiv, Band, 2 Heft (Leipzig).—Anales del Museo Nacional de Buenos Aires, Tome v. (Buenos Aires).—Geological Magazine, November (Dulau).—Scribner's Magazine, November (Low).—Journal of Botany, November (West).—History of Mankind : F. Ratzel, translated, Part 21 (Macmillan).—Fortnightly Review, November (Chapman).—Knowledge, November (Holborn).—Gazzetta Chimica Italiana, 1897, Parte II, Fasc. iv. (Roma).—Geographical Journal, November (Stanford).—Transactions of the Rochdale Literary and Scientific Society, 1896-97 (Rochdale).—North America Fauna, No. 73 (Washington).—Strand Magazine, November (Newnes).—Nansen's Farthest North, Part 1 (Newnes).—Mémoires de la Société de Physique et d'histoire Naturelle de Genève, Tome xxxII, seconde Partie (Genève).—American Journal of Science, November (New Haven).

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