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## DIARY OF SOCIETIES.

### THURSDAY, NOVEMBER 16.

ROYAL SOCIETY, at 4.30.—On the Discovery of a Novel Type of Flint Implements below the Base of the Red Crag of Suffolk, proving the Existence of Skilled Workers of Flint in the Pliocene Age: Sir Ray Lankester, K.C.B., F.R.S.—Studies in Heredity. I. The Effects of Crossing the Sea-urchins (*Echinus esculentus* and *Echinocardium coriatum*): Prof. E. W. MacBride, F.R.S.—The Influence of Ionised Air on Bacteria: Prof. W. M. Thornton.—The Intrinsic Factors in the Act of Progression in the Mammal: Dr. T. G. Brown.—The Refractive Indices of the Eye Media of some Australian Animals: Dr. J. L. Jona.—The Permeability of the Yeast Cell: S. G. Paine.—Ventilation of the Lung during Chloroform Narcosis: G. A. Buckmaster and J. A. Gardner.—(1) On the Boiling Point of Water; and (2) on the Boiling Points of some saturated Aqueous Solutions: Lord Berkeley, F.R.S., and M. P. Appleby. (Published.)—The Heating Effect of the Currents in Precise Measurements of Electrical Resistance: Dr. R. T. Glazebrook, F.R.S., W. R. Bousfield, and F. E. Smith. (Published.)

INSTITUTION OF MINING AND METALLURGY, at 8.—*Adjourned Discussions*: (1) Fallacies in the Theory of the Organic Origin of Petroleum: Eugene Coste; (2) The Economics of Tube-milling: H. Standish Ball.—*Paper*: The Whim Well Copper Mine, West Pilbara, North-west Australia: H. R. Sleeman.

LINNEAN SOCIETY, at 8.—Recent Researches on *Oenothera*: Dr. R. R. Gates.

### FRIDAY, NOVEMBER 17.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—The Endurance of Metals: Experiments on Rotating Beams at University College, London: E. M. Eden, W. N. Rose, and F. L. Cunningham. (*Adjourned Discussion*.)—*Probable Paper*: Double-cutting and High-speed Planing Machines: J. Hartley Wicksteed.

ILLUMINATING ENGINEERING SOCIETY, at 8.—Notes on the Design of Motor-car Headlights: Dr. H. R. B. Hickman.

### MONDAY, NOVEMBER 20.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Volcanic Craters and Explosives: Dr. Tempest Anderson.

### TUESDAY, NOVEMBER 21.

INSTITUTION OF CIVIL ENGINEERS, at 8.—*Further Discussion*: The Loch Leven Water-power Works: A. H. Roberts.—The Hydro-electric Plant in the British Aluminium Company's Factory at Kinlochleven: F. B. Sonnenschein.

ZOOLOGICAL SOCIETY, at 8.30.—The Fresh-water Crayfishes of Australia: Dr. Geoffrey Smith.—Contributions to the Anatomy and Systematic Arrangement of the Cestoidea. III. On a New Genus of Tapeworms from the Bustard (*Eupodotis kori*): F. E. Beddard, F.R.S.—Structure of the Alimentary Canal of the Stick Insect (*Bacillus rossii*, Fabr.), with a Note on the Parthenogenesis of this Species: A. E. Cameron.—Some Remarks on the Habits of British Frogs and Toads, with reference to Mr. Cummings's recent communication on "Distant Orientation in Amphibia": G. A. Boulenger, F.R.S.—Diagnoses of New Species of Terrestrial and Fluvial Snails from British and German East Africa: H. B. Preston.—On the Milk-Dentition of the Ratel: R. Lydekker, F.R.S.

ROYAL STATISTICAL SOCIETY, at 5.—The Course of Prices at Home and Abroad, 1890-1910: R. H. Hooker.

### WEDNESDAY, NOVEMBER 22.

ROYAL SOCIETY OF ARTS, at 8.—The Industrial Progress of the United States of America: Dr. James Douglas.

GEOLOGICAL SOCIETY, at 8.—Petrolological Notes on Guernsey, Herm, Sark, and Alderney: Prof. T. G. Bonney, F.R.S., and the Rev. Edwin Hill.—The Evolution of Inoceramus in the Cretaceous Period: H. Woods.

### THURSDAY, NOVEMBER 23.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the Iron Flame Spectrum and those of Sun-spots and Lower-type Stars: Sir N. Lockyer, K.C.B.

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F.R.S.—Sinhalese Iron and Steel of Ancient Origin: Sir R. A. Hadfield, F.R.S.—On the Conductivity of a Gas between Parallel Plate Electrodes when the Current approaches the Maximum Value: Prof. J. S. Townsend, F.R.S.—Spectroscopic Investigations in connection with the Active Modification of Nitrogen. II. Spectra of Elements and Compounds excited by the Nitrogen: Hon. R. J. Strutt, F.R.S., and Prof. A. Fowler, F.R.S.—The Less Refrangible Spectrum of Cyanogen, and its Occurrence in the Carbon Arc: Prof. A. Fowler, F.R.S., and H. Shaw.—Note on the Monatomicity of Neon, Krypton, and Xenon: Sir W. Ramsay, K.C.B., F.R.S.—The Adherence of Plain Surfaces: H. M. Budgett.—On the Resistance to the Motion of a Thread of Mercury in a Glass Tube: G. D. West.—The Distillation of Binary Mixtures of Metals in vacuo. Part I. Isolation of a Compound of Magnesium and Zinc: A. J. Berry.—Analysis of Tidal Records for Brisbane for the Year 1908: F. J. Selby.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Automatic Reversible Battery Boosters: R. Rankin.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Huxley Memorial Lecture.—The Early Inhabitants of Western Asia: Prof. F. von Luschan.

INSTITUTION OF MINING AND METALLURGY, at 8.—The Development of the Copper Queen and the Warren Mining District: Dr. James Douglas.

CHEMICAL SOCIETY, at 8.30.—*Extra Meeting*.—Prof. Harold B. Dixon, F.R.S., will deliver the Berthelot Memorial Lecture.

### FRIDAY, NOVEMBER 24.

PHYSICAL SOCIETY, at 5.—The Maximum Value of the Electric Stress between Two Unequal Spherical Electrodes: Dr. A. Russell.—The Cubical Expansion of Fused Silica: F. J. Harlow.—On the Temperature Coefficient of Diffusion: B. W. Clack.—The  $\alpha$  Particles emitted by the Active Deposits of Thorium and Actinium: E. Marsden and T. Barratt.—The Magnetic Transition Point of Cementite: S. W. J. Smith, W. White, and S. G. Barker.

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