

tion of the aleurone grains: S. Posternak. The analyses of aleurone grains obtained from four different species of plants showed practically the same composition, noteworthy points being the invariable presence of silicon and the absence of sodium and chlorine. The manganese was more variable in amount than the other elements.—The preparation of practically sterile musts from apples: G. Perrier.—The mode of dorsal fixation of *Lernaenicus Sardinae* on its host: Marcel Baudouin.—The existence of intra-uterine rickets: MM. Charrin and Le Play.—On the folded layers near Saint-Jean-de-Buèges (Herauld): René Nicklès.—On the ascents of captive balloons carried out on the Mediterranean and on the Atlantic Ocean from the yacht of the Prince of Monaco in 1904: H. Hergesell. A study of the atmospheric conditions above the ocean, measurements being taken of the temperature, relative humidity, and direction of the wind at varying heights above the sea level.—On the existence of high terraces in the North Ural: L. Duparc and F. Pearce.

DIARY OF SOCIETIES.

THURSDAY, FEBRUARY 9.

ROYAL SOCIETY, at 4.30.—(1) On the Conversion of Electric Oscillations into Continuous Currents by means of a Vacuum Valve: (2) On an Instrument for the Measurement of the Length of Long Electric Waves, and also small Inductances and Capacities: Prof. J. A. Fleming, F.R.S.—Report on an Area of Local Magnetic Disturbance in East Loch Roag, Lewes, Hebrides: Captain A. M. Field, R.N.—Phosphorescence caused by the Beta and Gamma Rays of Radium: G. T. Beilby.—(1) The Spectrum of Scandium and its Relation to Celestial Spectra: (2) On the Stellar Line near λ 4686; (3) Note on the Spectrum of μ Centauri: Sir Norman Lockyer, K.C.B., F.R.S., and F. E. Baxandall.—Europium and its Ultra-Violet Spectrum: Sir William Crookes, F.R.S.

ROYAL INSTITUTION, at 5.—Forestry in the British Empire: Prof. W. Schlich, F.R.S.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Fuel Economy in Steam Power Plants: W. H. Booth and J. B. C. Kershaw. (Conclusion of discussion.)—The Value of Overhead Mains for Electric Distribution in the United Kingdom: G. L. Addenbrooke.

MATHEMATICAL SOCIETY, at 5.30.—General Theory of Transfinite Numbers and Order-types: Dr. E. W. Hobson.—On the Reducibility of Covariants of Binary Quantics of Infinite Order. Part ii: Mr. P. W. Wood.

FRIDAY, FEBRUARY 10.

ROYAL INSTITUTION, at 9.—The Art of the Ionian Greeks: Dr. Cecil Smith.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Anniversary Meeting.

MALACOLOGICAL SOCIETY.—Annual General Meeting. Address by the President, Mr. E. R. Sykes, on Variation (including Teratology) in Recent Mollusca.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Reconstruction of the Santa Lucia River Bridge, Uruguay: P. J. Risdon.

PHYSICAL SOCIETY, at 8.—Address on Radiation Pressure by the President-elect, Prof. J. H. Poynting, F.R.S.

MONDAY, FEBRUARY 13.

SOCIETY OF ARTS, at 8.—Internal Combustion Engines: Dugald Clerk.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—The Geographical Results of the Tibet Mission: Sir Frank Younghusband, K.C.I.E.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Results of Force Measurements with Cutting Tools, and their Application to Lathe Design: Dr. J. T. Nicolson.

TUESDAY, FEBRUARY 14.

ROYAL INSTITUTION, at 5.—The Structure and Life of Animals: Prof. L. C. Miall, F.R.S.

SOCIOLOGICAL SOCIETY, at 4.—(1) Restrictions in Marriage: (2) Studies in National Eugenics: Communicated by Dr. Francis Galton, F.R.S.

INSTITUTION OF CIVIL ENGINEERS, at 8.—Alfredon Second Tunnel: E. F. C. Trench.—The Reconstruction of Moncreiffe Tunnel: D. McLellan.

ANTHROPOLOGICAL INSTITUTE, at 8.15.—Kinematograph Exhibition of Native Dances from Torres Straits: Dr. A. C. Haddon, F.R.S.—The Dog-motive in Bornean Art: E. B. Haddon.

WEDNESDAY, FEBRUARY 15.

SOCIETY OF ARTS, at 8.—The Decline of the Country Town: Arthur H. Anderson.

ROYAL MICROSCOPICAL SOCIETY, at 8.—Practical Micro-Metallography with Experimental Demonstration: J. E. Stead, F.R.S.

ROYAL METEOROLOGICAL SOCIETY, at 7.30.—Report on the Phenological Observations for 1904: E. Mawley.—Observations made during a Balloon Ascent at Berlin, September 1, 1904: Dr. Hermann Elias and J. H. Field.—The Winds of East London, Cape Colony: J. R. Sutton.

CHEMICAL SOCIETY, at 5.30.—The Condensation of Anilino-acetic Esters in Presence of Sodium Alcoholate: A. T. de Moulpied.—Nitrogen Halogen Derivatives of the Aliphatic Diamines: F. D. Chattaway.—Nitration of Substituted Azophenols: J. T. Hewitt and H. V. Mitchell.

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THURSDAY, FEBRUARY 16.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Polarised Röntgen Radiation: Dr. G. G. Barkla.—The Effects of Momentary Stresses in Metals: Prof. B. Hopkinson.—The Halogen Hydrides as Conducting Solvents. Part I. The Vapour Pressures, Densities, Surface Energies, and Viscosities of the Pure Solvents: D. McIntosh and B. D. Steele.—The Halogen Hydrides as Conducting Solvents. Part II. The Conductivity and Molecular Weights of Dissolved Substances: D. McIntosh and E. H. Archibald.—The Halogen Hydrides as Conducting Solvents. Part III. The Transport Numbers of Certain Dissolved Substances: B. D. Steele.—The Halogen Hydrides as Conducting Solvents. Part IV.: B. D. Steele, D. McIntosh, and E. H. Archibald.

ROYAL INSTITUTION, at 5.—Recent Work of the Geological Survey: Prof. J. J. H. Teall, F.R.S.

SOCIETY OF ARTS, at 4.30.—The Indian Census of 1901: Sir Charles A. Elliott, K.C.S.I.

LINNEAN SOCIETY, at 8.—A Revised Classification of Roses: J. G. Baker, F.R.S.—The Botany of the Anglo-German Uganda Boundary Commission: E. G. Baker, Spencer Moore, and Dr. A. B. Rendle.

FRIDAY, FEBRUARY 17.

ROYAL INSTITUTION, at 9.—High Power Microscopy: John W. Gordon.

GEOLOGICAL SOCIETY, at 8.—Anniversary Meeting.

EPIDEMIOLOGICAL SOCIETY, at 8.30.—The Protozoa in Relation to Disease: Prof. E. J. McWeeney.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Annual General Meeting.—Adjourned Discussion on the American Visit, 1904.—The Strength of Columns: Prof. W. E. Lilly.

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