

actions and its boiling point (-116° C.).—The lead-aluminium alloys: H. **Pécheux**. Alloys containing 93, 95 and 98 per cent. of aluminium were obtained, the properties of which are described.—On colloidal gold: M. **Hanriot**. Colloidal gold, prepared by the method of Henrich, exhibits properties which are inconsistent with the assumption that it consists merely of finely divided gold.—A new indicator and its application to the detection of boric acid: Lucien **Robin**. The indicator proposed is extracted from mimosa flowers by weak alcohol. Its general behaviour is similar to that of phenol-phthalein, with the advantage that it can be used in the presence of ammonia. It gives a characteristic reaction with borates, and may be used for this purpose in the analysis of food products.—The action of magnesium and organo-magnesium compounds on bromophenetol: V. **Grignard**. Bromophenetol reacts readily with magnesium powder, giving ethylene and C_6H_5O instead of the normal compound $C_6H_5OCH_2CH_2MgBr$.—On the lactone of oxy-crotonic acid and the γ -substituted crotonic acids: ... **Lespieau**.—Researches on the dinaphthopyranic series: R. **Fosse**.—Remarks on some peculiarities of the flora of Long Island: Ph. **Eberhardt**. The views of the author given in previous papers on the influence of the amount of atmospheric moisture on the growth and development of plants have received confirmation from a study of the growth of vegetation on Long Island.—Researches on the browning of the vine: L. **Ravaz**. The browning of the vine is a particular case of impoverishment of the plant brought about by production. It may be avoided by the use of manures rich in potash.—On the evolution of the relief of the plateau of Mehedinti, Roumania: E. **de Martonne**.—On the faults and undulations of the secondary and tertiary layers of the Loir: Jules **Welsch**.—On an albumen extracted from the eggs of fishes: the comparative chemistry of the sexual products in the same species: L. **Hugouenq**.—Autolysis of the tissues of the animal organism and the genesis of morbid phenomena: A. **Charrin**.—The colloidal state of metals in mineral waters; natural oxydases and their therapeutic action: F. **Garrigou**.—On a mechanical apparatus allowing of trepanning and vibratory massage: M. **Bercut**.

DIARY OF SOCIETIES.

THURSDAY, MAY 5.

ROYAL SOCIETY, at 4.—Election of Fellows.—At 4.30.—Experiments on a Method of Preventing Death from Snake Bite, capable of Common and Easy Practical Application: Sir Lauder Brunton, F.R.S., Sir Joseph Fayrer, Bart., F.R.S., and Dr. L. Rogers.—A Research into the Heat Regulation of the Body by an Investigation of Death Temperatures: Dr. E. M. Corner and Dr. J. E. H. Sawyer.—(2) A Note on the Action of Radium on Micro-organisms; (2) Further Note on Some Additional Points in Connection with Chloroformed Calf Vaccine: Dr. A. B. Green.—On Certain Physical and Chemical Properties of Solutions of Chloroform in Water, Saline, Serum and Haemoglobin. A Contribution to the Chemistry of Anaesthesia—Preliminary Communication: Prof. B. Moore and Dr. H. E. Roaf.

LINNEAN SOCIETY, at 8.—British Freshwater Rhizopoda: J. Cash.—On Coloration in Animals and Birds: J. Lewis Bonhote.—On the Cranial Osteology of the Fishes of the Families Mormyridæ, Notopteridæ and Hyodontidæ: Dr. W. G. Ridewood.

RÖNTGEN SOCIETY, at 8.30.—The Röntgen Society; its Past Work and Future Prospects: J. J. Vezev.—Some Experiments with Alpha Rays: F. H. Glew.

CHEMICAL SOCIETY, at 8.—The Slow Combustion of Ethane: W. A. Bone and W. E. Stockings.—Note on the Hydrolysis of Starch by Diastase: J. S. Ford.—The Resin Acids of the Conifers. Part I. The Constitution of Abietic Acid: T. H. Easterfield and G. Bagley.—The Action of Radium Rays on the Halides of the Alkali Metals, and Analogous Effects produced by Heat: W. Ackroyd.—The Dynamic Isomerism of Glucose and of Galactose. Solubility as a means of Determining the Proportions of Dynamic Isomerides in Equilibrium: T. M. Lowry.—A Study of the Substitution Products of α -Tetrahydro- α -naphthylamine, α -4-Bromotetrahydro- α -naphthylamine and α -Tetrahydro- α -naphthylamine-4-sulphonic acid: G. T. Morgan, Miss F. M. G. Micklethwait, and H. B. Winfield.—The Additive Products of Benzylideneaniline with Methylacetoacetic Ester and Acetoacetic Ester: F. E. Francis and Miss M. Taylor.

INSTITUTION OF MINING AND METALLURGY, at 8.—Discussion on Laboratory Equipment (conclusion).

FRIDAY, MAY 6.

ROYAL INSTITUTION, at 9.—Anthropoid Apes: Dr. P. Chalmers Mitchell.

PHYSICAL SOCIETY, at 8.—An Experiment with Lubricating Oil: W. A. Price.—Some Instruments for the Measurement of Large and Small Alternating Currents: W. Duddell.—Exhibition of Apparatus from the National Physical Laboratories.

MONDAY, MAY 9.

ROYAL INSTITUTION, at 5.—General Monthly Meeting.

FARADAY SOCIETY, at 8.—Studies in Viscosity: Dr. C. E. Fawsitt.—The

Electrolytic Oxidation of Anthracene: Alberto Fontana and F. Mollwo Perkin.

SOCIETY OF ARTS, at 4.30.—The Majolica and Glazed Earthenware of Tuscany: Prof. R. Langton Douglas.

TUESDAY, MAY 10.

ROYAL INSTITUTION, at 5.—Meteorites: L. Fletcher, F.R.S.

SOCIETY OF ARTS, at 8.—Crystalline Glazes and their Application to the Decoration of Pottery: W. Burton.

WEDNESDAY, MAY 11.

SOCIETY OF ARTS, at 8.—Early Painting in Miniature: R. R. Holmes.

GEOLOGICAL SOCIETY, at 8.—On some Quartzite-Dykes in the Mountain Limestone near Snelston (Derbyshire): H. H. Arnold-Bemrose.—Phenomena bearing upon the Age of the Lake of Geneva: Dr. C. S. DuRiche Preller.

THURSDAY, MAY 12.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—I the discussion on Messrs. Merz and McLellan's paper is concluded at the meeting of May 5, Messrs. Parsons, Stoney and Martin's paper on the Steam Turbine as applied to Electrical Engineering will be read and discussed.

MATHEMATICAL SOCIETY, at 5.30.—Some Mathematical Instruments: C. Cooke (communicated) by Major P. A. MacMahon.—On the Evaluation of Certain Definite Integrals by Means of Gamma Functions: A. L. Dixon.—Generalisations of Legendre's Formula $KE - (K - E)K = \frac{2}{3}\pi$.

A. L. Dixon.—Note on the Integration of Linear Differential Equations: Dr. H. F. Baker.

SOCIETY OF ARTS, at 4.30.—British Crown Tea: A. G. Stanton.

FRIDAY, MAY 13.

ROYAL ASTRONOMICAL SOCIETY, at 5.

MALACOLOGICAL SOCIETY, at 8.—List of Mollusca collected during the Commission of H.M.S. *Waterwitch* in the China Seas, 1900-1903, with Descriptions of New Species: Surgeon K. Hurlstone Jones, K.N., and H. B. Preston.—On a Carboniferous Nautiloid from the Isle of Man: G. C. Crick.—Notes on the Genus *Anoma*: E. R. Sykes.—New Land Shells from New Zealand: Henry Suter.

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