

stituent of mineral waters.—A new method of estimating the halogens in organic compounds by means of the metal-ammoniums: E. **Chablay**. In previous papers the author has given an account of the action of the metal-ammoniums on various organic haloid compounds, and in this work it was noticed that the whole of the halogen remained after the reaction combined with the alkali metal. This fact has been utilised as the basis of a very neat method for determining halogens in organic substances. Full details are given, and numerous analyses establishing the accuracy of the method proposed.—The condensed chromium sulphates: Albert **Colson**.—Some derivatives of hordenine: E. **Léger**. A description of the preparation and properties of the neutral tartrate, compounds with methyl and ethyl chloride, ethyl bromide and iodide, benzoyl and cinnamyl hordenine, and other derivatives.—Acetyl nitrate: Amé **Pictet** and Eugène **Khotinsky**. This substance has been obtained by dissolving nitric anhydride in acetic anhydride, and separating by fractional distillation under reduced pressure. The nitrate detonates violently when suddenly heated, and hence had to be analysed by indirect methods. Towards aromatic substances, acetyl nitrate acts as a nitrating agent of great power, benzene, toluene, anthracene, and thiophene being nitrated at temperatures below 0° C.—Ethyl benzoyl-glyoxylate: A. **Wahl**. Ethyl benzoylacetate in ether solution is submitted to the action of well-dried nitrous fumes, and the product distilled under reduced pressure. The reactions of the new α -diketone with piperidine, hydroxylamine, *o*-phenylamine-diamine, semicarbazide, aniline, and phenylhydrazine were studied.—The volume variations of the nucleus, of the chromatic mass, and of the cell in the course of the development of the pollen of *Nymphæa alba* and *Nuphar luteum*: W. **Lubimenko** and A. **Maige**.—Two new antelopes from Central Africa, *Cephalophus centralis* and *Cephalophus aequatorialis*: Maurice **de Rothschild** and Henri **Neuville**.—The affinities of the Bradypodidae (sloths) and, in particular, of *Hemibradypus mareyi* with the Ilapalopsidae of the Santacruzian of South America: R. **Anthony**.—The toxic products of the organism (muscular extracts): MM. **Charrin** and **Goupié**. The properties of an aqueous extract of muscle vary with the pressure under which the juices are expressed.—The interpretation of certain facts of coloured vision: Adrien **Guébbard**. A criticism of a paper on the same subject by E. P. Fortin.

DIARY OF SOCIETIES

THURSDAY, FEBRUARY 7.

ROYAL SOCIETY, at 4.30.—The Influence of Increased Barometric Pressure on Man, No. 3. The Possibility of Oxygen Bubbles being set free in the Body: Leonard Hill, F.R.S., and M. Greenwood, jun.—On the Combining Properties of the Oposonin of an Immune Serum: Prof. R. Muir and W. B. M. Martin.—Experiments made to determine the Condition under which "Specific" Bacteria derived from Sewage may be present in the Air of Ventilating Pipes, Drains, Inspection Chambers, and Sewers: Major W. H. Horrocks.—Observations on the Life-History of Leucocytes, Part II., On the Origin of the Granules: C. E. Walker.

ROYAL INSTITUTION, at 3.—Standards of Weights and Measures: Major P. A. Macmahon, F.R.S.

LINNEAN SOCIETY, at 8.—*Papers*: New Plants from Malaya: Dr. Otto Stapf.—Tertiary Foraminifera of Victoria: the Balcombian Deposits of Port Phillip: F. Chapman.—*Exhibitions*: Specimens of *Chara orithylo-poda*: H. and J. Groves.—Some Observations of Climbing Plants (with lantern-slides): Rev. John Gerard.—Herbarium formed by A. Ruperti, 1638-1700: W. Rose Smith.

CHEMICAL SOCIETY, at 8.30.—On the Rapid Electroanalytical Deposition and Separation of Metals, Part II., The Metals of the Silver and Copper Groups and Zinc: H. J. S. Sand.—The Alkaloids of Ergot: G. Barger and F. H. Carr.—Influence of Substitution on the Formation of Diazo-amines and Amino-azo-compounds, Part VI., the Partially Methylated 4:6-Diamino-*m*-xylenes: G. T. Morgan and F. M. G. Micklethwait.—(1) The Reduction of Hydroxylaminodihydroumbellulone Oxime; (2) The Constitution of Umbellulone, Part II., the Reduction of Umbellulonic Acid: F. Tutin.—Studies on Optically Active-Carbimides, Part V., The Aryl Esters and the Amides of α -Menthylcarbamic Acid: R. H. Pickard and W. Oswald.—Some Constituents of Natural Indigo, Part I.: A. G. Perkin and W. P. Bloxam.—The Occurrence of Isatin in some Samples of Java Indigo: A. G. Perkin.—(1) On the Absorption Spectra of Benzoic Acid, the Benzoates and Benzamide; (2) The Absorption Spectra of Phthalic, *iso*-Phthalic and Terephthalic Acids: Phthalic Anhydride and Phthalimide: W. N. Hartley and E. P. Hedley.— α -Trimethyl- and α - γ -Tetramethyl-tricarballylic Acids and α : Δ -Dimethylbutane α : Δ -Tricarboxylic Acid: H. Henstock and C. H. G. Sprankling.—A Reaction of Certain Colouring Matters of the Oxazine Series: J. F. Thorpe.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Investigations on Light Standards and the Present Condition of the High Voltage Glow Lamp:

C. C. Paterson (Conclusion of Discussion).—Comparative Life Tests on Carbon, Nernst, and Tantalum Incandescent Lamps using Alternating Currents: H. F. Haworth, T. H. Matthewman, and D. H. Ogley.

FRIDAY, FEBRUARY 8.

ROYAL ASTRONOMICAL SOCIETY, at 5.—Anniversary Meeting. PHYSICAL SOCIETY, at 8.—Annual General Meeting.—President's Address.—The Magnetic Fields and Inductive Coefficients of Circular, Cylindrical, and Helical Currents: A. Russell.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Reconstruction of a Swing-Bridge on the Southwold Railway: Claude Pain.

MALACOLOGICAL SOCIETY, at 8.—Annual Meeting.—What Evolutionary Processes do the Mollusca show? B. B. Woodward.

MONDAY, FEBRUARY 11.

SOCIETY OF ARTS, at 8.—Gold Mining and Gold Production: Prof. J. W. Gregory, F.R.S.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Round the North Magnetic Pole and through the North-west Passage: Captain Roald Amundsen.

TUESDAY, FEBRUARY 12.

ROYAL INSTITUTION, at 3.—The Visual Apparatus of Man and Animals: Prof. William Stirling.

ANTHROPOLOGICAL INSTITUTE, at 8.15.—Note on a Dolmen at Presle, France: A. L. Lewis.—The Ethnology of Modern Egypt: Dr. C. S. Myers.

WEDNESDAY, FEBRUARY 13.

SOCIETY OF ARTS, at 8.—Motor Omnibuses: Lord Montague of Beaulieu.

THURSDAY, FEBRUARY 14.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the Purification and Testing of Selenium: R. Threlfall, F.R.S.—On the Specific Inductive Capacity of a Sample of Highly Purified Selenium: O. U. Vonwiller and W. H. Mason.—The Thermomagnetic Analysis of Meteoric and Artificial Nickel-Iron Alloys: S. J. W. Smith.—Investigation of the Law of Burning of Modified Cordite: Major J. H. Mansell, R.A.

SOCIETY OF ARTS, at 4.30.—The Practical Side of Famine in India: Sir Frederick S. P. Ley, K.C.I.E.

LONDON INSTITUTION, at 6.—Scientific Method: Prof. H. E. Armstrong, F.R.S.

ROYAL INSTITUTION, at 3.—The Minute Structures of Igneous Rocks and their Significance: Alfred Harker, F.R.S.

MATHEMATICAL SOCIETY, at 5.30.—Groups defined by the Order of the Generators and the Order of their Commutator: Prof. G. A. Miller.—On the Reduction of the Factorisation of Binary Septics and Octatics to the Solution of a Pellian: Dr. T. Stuart.—On Repeated Integrals: Dr. E. W. Hobson.—The Construction of the Line drawn through a Given Point to meet Two Given Lines: Prof. W. Burnside.

FRIDAY, FEBRUARY 15.

ROYAL INSTITUTION, at 9.—Foraminifera: J. J. Lister, F.R.S.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Annual General Meeting.

SATURDAY, FEBRUARY 16.

ROYAL INSTITUTION, at 3.—Röntgen, Kathode, and Positive Rays: Prof. J. J. Thomson, F.R.S.

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