

HCl and the NO₂.—The influence of the colloidal state on dyeing: Léo **Vignon**.—A new method of isomerisation in the terpene series: Géza **Austerweil**. Pinene, heated to a moderate temperature with an organic acid in sealed tubes, gives a yield of about 18 per cent. bornyl esters; if the pressure in the autoclave is raised some atmospheres by means of a bottle of carbon dioxide, the yield is much higher.—The suboxides of caesium: E. **Rengade**. The oxide Cs₂O₂ was isolated and analysed.—Contribution to the study of the rocks of the eastern edge of the Armorican *massif*: L. **Vandernotte**.—The rational use of superphosphates: J. **Dumont**. It has been shown by cultivation experiments on the large scale that the application of superphosphate mixed with farm manure gives better results than the same manures applied separately.—The relation of insects, especially Lepidoptera, with the flowers of Asclepiadæ, and in particular with that of *Araujia sericifera*. The mechanism of their capture: J. Künkel **d'Herculaïs**.—The indol-producing bodies of the urine: Ch. **Porcher**.—Bilirubin: M. **Pietro**.—The action of electrolytes on the hydrolysis of fats by the pancreatic juice: Emile F. **Terroine**.—Research on the hydrolysis of the proteins by acids: Henri **Mathieu**.—The mechanism of the synthesis of light impressions received by the compound eyes of the Diptera: P. **Vigier**.—The reproduction of Aphelinus and the individual interest in acts relating to the conservation of the species: Paul **Marchal**.—The enteroids of the Acraspedes: Edgard **Hérouard**.—The formation of the Straits of Gibraltar: Louis **Gentil**.—The grotto of Bosse in the commune of Morée, Loir-et-Cher: Armand **Viré** and André **Piéduallu**.—Some seeds and microsporangia of Pteridosperms found in the Nord coal basin: Alfred **Carpentier**.

DIARY OF SOCIETIES.

THURSDAY, MAY 13.

ROYAL SOCIETY, at 4.30.—Recent Solar Research: Dr. George E. Hale, For. Mem. R.S.—Utilization of Energy stored in Springs for the Production of Mechanical Work: A. Mallock, F.R.S.—The Elastic Limits of Iron and Steel under Cyclical Variations of Stress: J. Bairstow.—Functions of Positive and Negative Type: J. Mercer.—On a New Kind of Glow in Vacuum Tubes: Rev. H. W. Gill, S.J.
 ROYAL INSTITUTION, at 3.—Newfoundland: J. G. Millais.
 ROYAL SOCIETY OF ARTS, at 4.30.—Some Phases of Hinduism: Krishna Gobinda Gupta.
 MATHEMATICAL SOCIETY, at 5.30.—Ternary Quadratic Types: H. W. Turnbull.—The Theorem of Gauss in the Theory of Attractions: Dr. J. G. Leatham.—On the Continuity or Discontinuity of a Function defined by an Infinite Product: J. E. Littlewood.
 INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Economics of Medium Sized Power Stations: A Study of Comparisons between Steam, Gas and Oil Engines: A. J. J. Pfeiffer.

FRIDAY, MAY 14.

ROYAL INSTITUTION, at 9.—Solar Vortices and Magnetic Fields: Prof. G. E. Hale.
 ROYAL ASTRONOMICAL SOCIETY, at 5.—Spectroscopic Comparison of α Ceti with Titanium Oxide: A. Fowler.—On some Points with regard to the Light Fluctuations of Variable Stars. A Rejoinder to Mr. H. C. Plummer's Criticisms: Karl Pearson.—Note on certain Coefficients appearing in the Algebraical Development of the Perturbative Function: R. T. A. Innes.—On Inclined Lines in Stellar Spectrograms, and on a New Method of Focussing a Star on the Slit of a Spectrograph: J. Lunt.—Observations of Helium D₂ Absorption in the Neighbourhood of Sun-spots in 1908: Capt. R. A. C. Daunt.—Note on certain Lines ascribed to Argon in Celestial Spectra: J. Lunt.—The Long-period Variable RT Cygni in 1908: A. N. Brown.—Results of Micrometer Measures of Double Stars made with the 28-inch Refractor in the Year 1908: Royal Observatory, Greenwich.—New Double Stars: Rev. T. E. Espin.—Note on the Solar Constant and the Apparent Temperature of the Sun: C. Fery.—On Absorption in Jupiter's Atmosphere, and its Probable Effect on the Colour and Albedo of the Belts and Zones: J. H. Reynolds.—*Probable Papers*: Solar Parallax Papers, No. 7, The General Solution for the Parallax: A. R. Hinks.

PHYSICAL SOCIETY, at 8.—On a Bifilar Vibration Galvanometer: W. Duddell, F.R.S.—Effect of Temperature on the Hysteresis Loss in Iron in a Rotating Field: W. P. Fuller and H. Grace.—On a Method of Testing Photographic Shutters: A. Campbell and T. Smith.
 MALACOLOGICAL SOCIETY, at 8.—Descriptions of the Animals of Two Land Shells from Perak; Skeat Expedition in the Malay Peninsula, 1899-1900: Lt.-Col. H. H. Godwin-Austen, F.R.S.—List of Mollusca from Christmas Island, Indian Ocean, and Descriptions of New Species: E. A. Smith.—Further Notes on Holocene and Recent Non-marine Mollusca from Perranzabuloe: Rev. R. Ashington Bullen.—On Non-marine Mollusca from an Early Neolithic Interment at Cuxton, Kent: A. S. Kennard.

TUESDAY, MAY 18.

ROYAL INSTITUTION, at 3.—The Hittites: (1) Monuments of Egypt and Asia Minor: Prof. John Garstang.

ROYAL SOCIETY OF ARTS, at 4.30.—Canada as a Field for British Investment: J. Obed Smith.
 ROYAL STATISTICAL SOCIETY, at 5.—The Meat Supply of the United Kingdom: R. H. Hooker.

WEDNESDAY, MAY 19.

ROYAL MICROSCOPICAL SOCIETY, at 8.—On the Recent and Fossil Foraminifera of the Shore-sands of Selsey Bill, Sussex, Part II.: E. Heron-Allen and A. Earland.—A New Illuminator for the Microscope: J. W. Gordon.
 ROYAL SOCIETY OF ARTS, at 8.—Railway Development in China: A. J. Barry.
 ROYAL METEOROLOGICAL SOCIETY, at 4.30.—The Anticyclonic Belt of the Northern Hemisphere: Col. H. E. Rawson, C.B.—Errors of Estimation in Thermometric Observations: A. Walter.

THURSDAY, MAY 22.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Observations on the Urine in Chronic Disease of the Pancreas: Dr. P. J. Cammidge.—*Trypanosoma ingens*, n.sp.: Colonel Sir David Bruce, C.B., F.R.S., and Captains A. Hamerton, H. R. Bateman and F. P. Mackie.—The Incidence of Cancer in Mice of Known Age: Dr. E. F. Pashford and Dr. J. A. Murray.
 ROYAL INSTITUTION, at 3.—Newfoundland: J. J. Millais.
 INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Annual General Meeting.

FRIDAY, MAY 21.

ROYAL INSTITUTION, at 9.—Afforestation: Hon. Ivor C. Guest, M.P.

SATURDAY, MAY 22.

ROYAL INSTITUTION, at 3.—The Secret Societies of the Banks' Islands: Dr. W. H. R. Rivers, F.R.S.

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