

there is a constant difference of about '0001, and hence concludes that the air of London contains 0.1 per cent. less oxygen than that of Paris.—New researches relating to the influence of the X-rays upon the explosive distance of the electric spark, by M. S. Guggenheimer.—On the Hertz resonator, by M. Albert Turpain.—On the decomposition of sulphite and hyposulphite of strontium by heat, and the production of phosphorescent strontium sulphide, by N. J. R. Mourelo.—Contribution to the study of oxydase in grapes. Its utility in the preparation of wine, by MM. A. Bouffard and L. Semichon. By the application of oxydase, white wines may be prepared from red grapes.—Phyllocyanic acid and the phyllocyanates, by M. A. Guillemae.—On the destructive action of a blood serum upon the red corpuscles of another species of animal. Immunisation against this action, by MM. L. Camus and E. Gley.—Tyrosin, a chemical vaccine against snake poison, by M. C. Phisalix. This is the first known case where the cell sap of a plant confers immunising properties against snake poison.—The neurology of the encephalon in fishes, by M. Catois.—On the morphological limits of the rings of the integument, by M. Charles Janet.—On the fresh-water fauna of the Canary Isles, by M. Jules Richard. Among the species observed the following were the most remarkable: *D. similis*, var. *Alluadi*, and *Canthocamptus palustris*.—On the area of dispersion of the malacological fauna at great depths in the Atlantic, by M. Arnaud Locard.—On the germination of the spores of the truffle, and the production of teleutospores, by M. A. de Gramont de Lesparre. The stages of germination are shown in nine diagrams.—On the age of the quaternary gravels of Villefranche (Rhône), by M. Gaillard.—On a new method for determining the position of foreign bodies by radiography, by M. H. Morize.

DIARY OF SOCIETIES.

THURSDAY, FEBRUARY 10.
ROYAL SOCIETY, at 4.30.—Contributions to the Theory of Alternating Currents: W. G. Rhodes.—The Development and Morphology of the Vascular System in Mammals. I. The Posterior End of the Aorta and the Iliac Arteries: Prof. A. H. Young and Dr. A. Robinson.—Further Observations upon the Comparative Chemistry of the Suprarenal Capsules: B. Moore and Swale Vincent.—The Effects of Extirpation of the Suprarenal Bodies of the Eel (*Anguilla anguilla*): Swale Vincent.
MATHEMATICAL SOCIETY, at 8.—The Transformations which leave the Length of Arcs on any Surface Unaltered: J. E. Campbell.—On Auri-feuillians: Lieut.-Colonel Cunningham, R.E.
INSTITUTION OF MECHANICAL ENGINEERS, at 7.30.—Report of the Council.—Discussion upon Mr. Philip Dawson's Paper on Mechanical Features of Electric Traction.
FRIDAY, FEBRUARY 11.
ROYAL INSTITUTION, at 9.—The Metals used by the Great Nations of Antiquity: Dr. J. H. Gladstone, F.R.S.
ROYAL ASTRONOMICAL SOCIETY, at 3.—Annual General Meeting.
PHYSICAL SOCIETY, at 5.—Annual General Meeting.—Address by the President.—Also Paper: On Electromagnetic Induction in Plane, Cylindrical, and Spherical Current Sheets, and its Representation by Moving Trails of Images: Prof. G. H. Bryan, F.R.S.
INSTITUTION OF CIVIL ENGINEERS, at 8.—The Protection of Power Transmissions from Lightning: John T. Morris.
INSTITUTION OF MECHANICAL ENGINEERS, at 7.30.—First Report to the Gas-Engine Research Committee: Description of Apparatus and Methods, and Preliminary Results: Prof. Frederic W. Burstall.—Steam Laundry Machinery: Sidney Tebbutt.
MALACOLOGICAL SOCIETY, at 8.—Descriptions of Two New Species of *Clausilia* from the Province of Che-Kiang, China: E. R. Sykes.—List of the Species of *Catalanus* found in Ceylon, with Descriptions of some New Land Shells from that Island: E. R. Sykes.—Notes on the Genus *Coxiella*: E. A. Smith.—Note on *Cypraea caput-anguis*, Philippi, with the Description of a New Variety of *C. caput-serpentis*: Mrs. A. F. Kenyon.
MONDAY, FEBRUARY 14.
SOCIETY OF ARTS, at 8.—The Principles of Design in Form: Hugh Stannus.
ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—A Recent Journey in Western Australia: Hon. David W. Carnegie.
IMPERIAL INSTITUTE, at 8.30.—Sierra Leone: Lieut. J. P. Mackesy, R.E.
TUESDAY, FEBRUARY 15.
ROYAL INSTITUTION, at 3.—The Simplest Living Things: Prof. E. Ray Lankester, F.R.S.
ZOOLOGICAL SOCIETY, at 8.30.—On the Osteology of the Steganopodes: W. P. Pycraft.—On the Skeleton of the Regenerated Limbs of the Midwife-Toad (*Alytes obstetricans*): Dr. W. G. Ridewood.—Description of a New Sea-Snake from Borneo: G. A. Boulenger, F.R.S.
INSTITUTION OF CIVIL ENGINEERS, at 8.—The Stability of Channels through Sandy Estuaries: P. M. Crosthwaite.
ROYAL STATISTICAL SOCIETY, at 5.—Democratic Statistics of the United Kingdom: their Want of Correlation and other Defects: Edwin Cannan.
ROYAL PHOTOGRAPHIC SOCIETY, at 8.—Process Reproduction from an Editor's Point of View: Wallace L. Crowdy.
ROYAL VICTORIA HALL, at 8.30.—Brains: Hugh de Haviland.
WEDNESDAY, FEBRUARY 16.
ROYAL METEOROLOGICAL SOCIETY, at 7.30.—Report on the Phenological Observations for 1897: Edward Mawley.—Monthly and Annual Rainfall in the British Empire, 1877 to 1896: John Hopkinson.

ROYAL MICROSCOPICAL SOCIETY, at 8.—Essay on Micro-crystallography, with Lantern Illustrations: T. C. White.—Exhibition of Miscellaneous Lantern Slides: J. E. Barnard.
ENTOMOLOGICAL SOCIETY, at 8.—On the Genus *Erebia*: H. J. Elwes and Dr. T. A. Chapman.
THURSDAY FEBRUARY 17.
ROYAL SOCIETY, at 4.30.—*Probable Papers*: On the Depletion of the Endosperm of the *Hordeum vulgare* during Germination: H. T. Brown, F.R.S., and F. Escombe.—On the Connection between the Electrical Properties and the Chemical Composition of Different Kinds of Glass: Prof. A. Gray, F.R.S., and Prof. J. J. Dobbie.—Contributions to the Mathematical Theory of Evolution. On the Inheritance of the Cephalic Index: Cicely Fawcett and Prof. K. Pearson, F.R.S.
ROYAL INSTITUTION, at 3.—Some Italian Pictures at the National Gallery: Dr. Jean Paul Richter.
SOCIETY OF ARTS (Imperial Institute), at 4.30.—The Plague in Bombay: Dr. Herbert Mills Birdwood.
LINNEAN SOCIETY, at 8.—On the Genus *Arenaria*: F. N. Williams.—On the Brain in the Edentata, including *Chlamyphorus*: Dr. Elliot Smith.
CHEMICAL SOCIETY, at 8.—Some Lecture Experiments: J. Tudor Cundall.—Observations on the Influence of the Silent Discharge of Electricity on Atmospheric Air: W. A. Shenstone and W. T. Evans.
FRIDAY, FEBRUARY 18.
ROYAL INSTITUTION, at 9.—A Yorkshire Moor: Prof. L. C. Miall, F.R.S.
EPIDEMIOLOGICAL SOCIETY, at 8.30.—The Relationship of Variations of the Ground-Water Level to the Incidence and Seasonal Distribution of Malarial Fevers in India: Surgeon-Captain Leonard Rogers.
SATURDAY, FEBRUARY 19.
ROYAL INSTITUTION, at 3.—The Structure of Instrumental Music (with Musical Illustrations): William H. Hadow.

BOOKS, PAMPHLETS, and SERIALS RECEIVED.

BOOKS.—Religio Medici: Sir T. Browne, edited by Dr. D. L. Roberts (Smith, Elder).—Chambers's Algebra for Schools: W. Thomson (Chambers).—A Flower-Hunter in Queensland and New Zealand: Mrs. Rowan (Murray).—Elementary Botany; P. Groom (Bell).—Quarterly Current Charts for the Pacific Ocean (Meteorological Office).—Elementary Physics: J. G. Kerr (Blackie).
PAMPHLETS.—Remarkable Comets: W. T. Lynn, 6th edition (Stanford).—Quantitative Exercises for Beginners in Chemistry: A. H. Mitchell, 2 parts (Reading, National Publishing Association).—A Catalogue of Recent Cephalopoda, Supplement 1887-96: W. E. Hoyle (Edinburgh).—Mythos und Naturwissenschaft, &c.: G. W. A. Kahlbaum (Leipzig, Barth).—Eleventh Annual Report of the Liverpool Marine Biology Committee, &c. (Liverpool).
SERIALS.—Chambers's Journal, February (Chambers).—Natural Science, February (Dent).—Fortnightly Review, February (Chapman).—Scribner's Magazine, February (S. Low).—Journal of Botany, February (West).

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