

acidified solution of potassium iodine. The density found was  $\frac{3}{4}$  that of oxygen, within the limits of experimental error.—Decomposition of metallic sulphates by hydrochloric acid, by M. Albert Colson.—On the polymerisation of some cyanic compounds, by M. Paul-Lemoult. Correcting some thermochemical calculations given in a previous note.—Dimorphism of the optical isomerides of the succinates of camphol, by M. J. Minguin.—Action of potassium cyanide upon the 1 : 4 lactones, by M. Edmund Blaise.—Phosphoric ethers of allyl alcohol, by M. J. Cavalier.—On a difference between high and low yeasts, by M. P. Petit. The two kinds of yeast show differences in their behaviour towards nitrogenous foods.—Contribution to the study of the coagulating ferment of the blood, by MM. A. Dastre and N. Floresco.—Refractory period in the nervous centres, by MM. André Broca and Charles Richet.—Evolution of the Monstrillidae, by M. A. Malaquin.—On the relations existing between the *Discopoma comata* (Berlese) and *Lastus mixtus* (Nylander), by M. Charles Janet.—On the development of the white rot in the vine (*Charrinia dysplodiella*), by M. P. Viala.—The Swiss Rhone tributary of the Rhine, by M. Maurice Lugeon.—On the differential equations of the second order, with several independent variables, by M. A. J. Stodolkiewitz.

DIARY OF SOCIETIES.

THURSDAY, JANUARY 21.

ROYAL SOCIETY, at 4.30.—On Cheiretrobos, a New Type of Fossil Cone from the Calceiferous Sandstone: Dr. D. H. Scott, F.R.S.—(1) Experiments in Examination of the Peripheral Distribution of the Fibres of the Posterior Roots of some Spinal Nerves, Part II.; (2) Cataleptoid Reflexes in the Monkey; (3) On Reciprocal Innervation of Antagonistic Muscles (third note): Prof. Sherrington, F.R.S.

ROYAL INSTITUTION, at 3.—Some Secrets of Crystals: Prof. H. A. Miers, F.R.S.

LINNEAN SOCIETY, at 8.—On the Origin of the Corpus callosum; a Comparative Study of the Hippocampal Region of the Cerebrum of Marsupialia and certain Chiroptera: Dr. G. Elliott Smith.—On the Minute Structure of the Nervous System of the Mollusca: Dr. J. Gilchrist.

CHEMICAL SOCIETY, at 8.—Studies of the Properties of Highly Purified Substances. I. The Influence of Moisture on the Production of Ozone from Oxygen and on the Stability of Ozone. II. The Behaviour of Chlorine, Bromine, and Iodine with Mercury. III. The Behaviour of Chlorine under the Influence of the Silent Discharge of Electricity and in Sunlight: W. A. Shenstone.—Action of Diastase on Starch, Part III.: A. R. Ling and J. L. Baker.—The Solution Density and Cupric-reducing Power of Dextrose, Levulose, and Moist Sugar: Horace T. Brown, F.R.S.; Dr. G. Harris Morris; J. H. Millar.—Derivatives of Maclurin, Part II.: A. G. Perkin.

GRESHAM COLLEGE, at 6.—Milk, Meat, and Oysters as Carriers of Disease: Dr. Symes Thompson.

FRIDAY, JANUARY 22.

ROYAL INSTITUTION, at 9.—Properties of Liquid Oxygen: Prof. Dewar, F.R.S.

PHYSICAL SOCIETY, at 5.—An Exhibition of some Simple Apparatus by W. B. Croft.—On the Passage of Electricity through Gases: E. C. Baly.

GRESHAM COLLEGE, at 6.—Diphtheria: Dr. Symes Thompson.

SUNDAY, JANUARY 24.

SUNDAY LECTURE SOCIETY, at 4.—Life on the Surface of Water: Prof. T. C. Miall, F.R.S.

MONDAY, JANUARY 25.

SOCIETY OF ARTS, at 8.—Material and Design in Pottery: W. Burton.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—An Expedition across Spitzbergen: Sir W. Martin Conway.

INSTITUTE OF ACTUARIES, at 7.—Rates of Mortality in certain Parts of Africa: A. E. Sprague.

CAMERA CLUB, at 8.15.—The Zamanass for Registering High Velocities: Sir C. Purcell Taylor, Bart.

TUESDAY, JANUARY 26.

ROYAL INSTITUTION, at 3.—Animal Electricity: Prof. A. D. Waller, F.R.S.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Diversion of the Periyar: Colonel J. Pennycuik, R.E.

ANTHROPOLOGICAL INSTITUTE, at 8.—Anniversary Meeting.

ROYAL PHOTOGRAPHIC SOCIETY, at 8.—Architectural Photography: Ernest Marriage.

WEDNESDAY, JANUARY 27.

BRITISH ASTRONOMICAL ASSOCIATION, at 5.

THURSDAY, JANUARY 28.

ROYAL SOCIETY, at 4.30.—The following Papers will probably be read:—On the Capacity and Residual Charge of Dielectrics as affected by Temperature and Time: Dr. J. H. Pinkson, F.R.S., and E. Wilson.—On the Electrical Resistivity of Electrolytic Bismuth at Low Temperatures and in Magnetic Fields: Prof. Dewar, F.R.S., and Prof. Fleming, F.R.S.—On the Selective Conductivity exhibited by certain Polarising Substances: Prof. J. C. Bose.

ROYAL INSTITUTION, at 3.—Some Secrets of Crystals: Prof. H. A. Miers, F.R.S.

SOCIETY OF ARTS, at 8.—The Mechanical Production of Cold: Prof. James A. Ewing, F.R.S.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Electrical Interlocking, the Block, and Mechanical Signals on Railways: F. T. Hollins.

FRIDAY, JANUARY 29.

ROYAL INSTITUTION, at 9.—The Polarisation of the Electric Ray: Prof. J. C. Bose.

INSTITUTION OF CIVIL ENGINEERS, at 8.—An Experimental Investigation of the Efficiency of a Pelton Waterwheel: S. Henry Barraclough.

BOOKS, PAMPHLETS, and SERIALS RECEIVED.

BOOKS.—Onoranze al Prof. S. Cannizzaro. Rendiconto Generale (Roma).—Smithsonian Physical Tables: T. Gray (Washington).—The Practical Photographer, Vol. 7 (Lund).—Our Weights and Measures: H. J. Chaney (Eyre).—An Introduction to the Study of Chemistry: Drs. W. H. Perkin and B. Lean (Macmillan).—Colliery Surveying: T. A. O'Donahue (Macmillan).—Fruit Culture for Amateurs: S. T. Wright (Gill).—The Hemiptera-Hemiptera of the British Islands: J. Edwards (L. Reeve).—Black-board Drawing: M. Swannell (Macmillan).—Microscopic and Systematic Study of Madreporarian Types of Corals: Dr. M. M. Ogilvie (Dulau).—Among British Birds in their Nesting Haunts: O. A. J. Lee, Part 2 (Edinburgh, Douglas).—Den Norske Nordhavs-Expedition, 1876-78. xxii. Zoologi, Tunicata: A. Huitfeldt-Kaas (Christiania, Grondahl).—A Manual of Elementary Seamanship: D. Wilson-Barker (Griffin).—Getting Gold: J. C. F. Johnson (Griffin).—Pioneers of Evolution from Thales to Huxley: E. Clodd (Richards).—Travels in West Africa: Mary H. Kingsley (Macmillan).—A Year in the Fields: C. Johnson (Smith, Elder).—Diseases of Plants induced by Cryptogamic Parasites: Dr. K. F. von Tubeuf; English Edition by Dr. W. G. Smith (Longmans).—On Mechanical Selection and other Problems: Dr. K. Jordan.

PAMPHLETS.—Exposition Nationale Suisse. Catalogue illustré Chasse et Pêche (Genève).—The Climate of Bournemouth in relation to Disease, especially Phthisis: Dr. A. Kinsey-Morgan (Bristol, Wright).—To Winnipeg, Manitoba, and Back: S. Marriott (Simpkin).—Das Wesen der Elektrizität und des Magnetismus: J. G. Vogt (Leipzig).—Exercises in Practical Physiology. Part 1. Elementary Physiological Chemistry: A. D. Waller and W. L. Symes (Longmans).

SERIALS.—Lloyd's Natural History. British Birds, Parts 8 and 9: Dr. R. B. Sharpe (Lloyd).—Strand Magazine, January (Newnes).—Geological Magazine, January (Dulau).—Mind, January (Williams).—Proceedings of the Incorporated Society of Psychical Research, December (K. Paul).—Proceedings of the Physical Society, December (Taylor).—Journal of Anatomy and Physiology, January (Griffin).—Morphologische Jahrbuch, 24 Band, 4 Heft (Leipzig, Engelmann).—Psychological Review, January (Macmillan).—The British Moss-Flora, November: Dr. R. Braithwaite (the Author, Clapham Road).—Lean's Royal Navy List, January (Witherby).—The Bachelor of Arts, December (N.Y.).—L'Anthropologie, November-December (Paris, Masson).—Neudrucke von Schriften und Karten über Meteorologie und Erdmagnetismus, Nos. 7, 8, 9 (Asher).—American Journal of Mathematics, Vol. xix, No. 1 (Baltimore).—The Engineering Magazine, January (Tucker).—Quarterly Review, January (Murray).—Journal of the Franklin Institute, January (Philadelphia).

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