

of sawing metals, by M. Vasseur. From the analysis given, it would appear that the lines discovered by M. Fremont have no relation with the curves of distribution of deformations in vmetals, but depend upon the nature and condition of the saw employed.—On the insulating properties of snow, by M. Bernard Brunhes.—On certain conditions of reversibility, by M. Albert Colson. The reversibility of the reaction between carbon dioxide and silver oxide is dependent upon the presence of water vapour.—The compressibility of solutions, by M. Guinchant. Up to a pressure of four atmospheres the volume of the dissolved body is independent of the pressure.—Contribution to the study of indium, by MM. C. Chabrie and E. Rengade. On prolonged boiling, caesium indium alum deposits pure indium oxide. Determinations of the molecular weight of indium acetyl-acetonate in boiling ethylene bromide are consistent with the trivalency of this element.—On a new crystallised sulphate of molybdenum, by M. Bailhache.—Some new reactions of organo-metallic derivatives, by M. E. E. Blaise. A mode of synthesis of alkyl-ketonic esters.—Action of the organo-metallic derivatives upon alkyl esters, by M. A. Behal. The final product of the action of an excess of magnesium isoethylete upon an ester, R.CO.OEt, is an ethylenic hydrocarbon, R.C(CH₃)₂:CH₂.—Synthesis of tertiary alcohols in the fatty series, by M. Henri Masson.—On the absorption spectra of the indophenols and the colouring matters derived from triphenylmethane, by MM. C. Camichel and P. Bayrac.—On the constitution of glucose, by M. L. J. Simon.—The diastatic actions of colloidal platinum and other metals, by M. G. Bredig. A solution of colloidal platinum shows a remarkable analogy with the enzymes in its catalytic action towards hydrogen peroxide. Both the colloidal metal and the enzyme increase in activity with increasing temperature up to a certain point, and then fall off, and both are similarly influenced by the addition of minute quantities of hydrocyanic acid or sulphuretted hydrogen.—The function of the peritoneal canals, by M. S. Jourdain.—The action of chloroform upon the reducing action of the blood, by MM. M. Lambert and L. Garnier.—On the identity of the modifications of structure produced in vegetable cells by cold, plasmolysis, and by drying, by MM. L. Matruchot and M. Mollard.—Food value and culture of the furze, by M. A. Ch. Girard.—The examination of a meteorite which fell in the island of Ceylon on April 13, 1795, by M. Stanislas Meunier.

DIARY OF SOCIETIES.

THURSDAY, MARCH 7.

ROYAL SOCIETY, at 4.30.—Further Observations of Nova Persei: Sir Norman Lockyer, F.R.S.—Some Physical Properties of Nitric Acid Solutions: V. H. Veley, F.R.S., and J. J. Manley.—The Anatomy of Symmetrical Double Monstrosities in the Trout: Dr. J. F. Gemmill.—Preliminary Communication on the Oestrous Cycle and the Formation of the Corpus luteum in the Sheep: F. H. A. Marshall.—To be read *in title only*: On the Composition and Variations of the Pelvic Plexus in *Acanthias vulgaris*: R. C. Punnett.—On the Heat dissipated by a Platinum Surface at High Temperatures. IV. High Pressure Gases: J. E. Petavel.
 LINNEAN SOCIETY, at 8.—A Contribution to the Fresh-water Algae of Ceylon: Messrs. W. West and G. S. West.—On Mediterranean Malacostraca: A. A. Walker.
 INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Insulation on Cables: M. O'Gorman.
 CHEMICAL SOCIETY, at 8.—(1) Nomenclature of the Acid Esters of Unsymmetrical Dibasic Acids; (2) Additive Compounds of α - and β -Naphthylamine with Trinitrobenzene Derivatives; (3) Acetylation of Arylanines: J. J. Sudborough.—Formation of Amides from Aldehydes: R. H. Pickard and W. Carter.
 RÖNTGEN SOCIETY, at 8.—Exhibition of Skiagrams and Apparatus.

FRIDAY, MARCH 8.

ROYAL INSTITUTION, at 9.—Vitrified Quartz: W. A. Shenstone, F.R.S.
 ROYAL ASTRONOMICAL SOCIETY, at 5.—Partial Solar Eclipse, 1900 November 22, observed in Western Australia: W. E. Cooke.—On the Observation of Position Angles of Polar Double Stars: R. T. A. Innes.—On the Oxford Photographic Determinations of Stellar Parallax: Reply to the Criticisms of Sir D. Gill: H. H. Turner.—Occultation of Jupiter and his Satellites, 1900, September 29: John Tebbutt.—Cape Double Star Results, 1900: Royal Observatory, Cape of Good Hope.—The Nearest Approach of Two Planets: C. F. Whitmill.—Observations of Leonids, 1900 November 15, 16: Royal Alfred Observatory, Mauritius.—Description of a Floating Photographic Zenith Telescope, and some Results obtained with it: Bryan Cookson.—Note on Mr. Cookson's Paper on the Accuracy of Eye Observations of Meteors: H. C. Plummer.—The Variable Star R Centauri: A. W. Roberts.—On the New Star in Perseus: A. Stanley Williams.—*Probable papers*: Photographic Positions of Nova Persei and Neighbouring Stars: University Observatory, Oxford.—Spectrum of Nova Persei: H. F. Newall.
 INSTITUTION OF CIVIL ENGINEERS, at 8.—Sewage Treatment: C. Johnston.

PHYSICAL SOCIETY, at 5.—A Theory of Colloidal Solutions: Dr. F. G. Donnan.—Exhibition of Apparatus: R. Appl-yard.—On the Production of a Bright Line Spectrum by Anomalous Dispersion and its Application the "Flash Spectrum": Prof. R. W. Wood.
 MALACOLOGICAL SOCIETY, at 8.—Note on the Anatomy of *Thersites (Udrva) bipartita*, Fer.: S. Pace.—New Marine Shells from "the Kowie" of South Africa: G. B. Sowerby.—New Marine Shells from the Philippines, &c.: G. B. Sowerby.

SATURDAY, MARCH 9.

ROYAL INSTITUTION, at 3.—Sound and Vibrations: Lord Rayleigh, F.R.S.
 MONDAY, MARCH 11.
 SOCIETY OF ARTS, at 8.—Electric Railways: Major Philip Cardew.
 ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—The Geography of the North-West Frontier of India: Col. Sir Thomas H. Holdich, K.C.I.E., C.B.

TUESDAY, MARCH 12.

ROYAL INSTITUTION, at 3.—The Cell as the Unit of Life: Dr. A. Macfadyen.
 INSTITUTION OF CIVIL ENGINEERS, at 8.—The Aesthetic Treatment of Bridge Structures: J. Husband.
 ROYAL PHOTOGRAPHIC SOCIETY, at 8.—The Apochromatic Collinear Lens: Dr. Harting.

WEDNESDAY, MARCH 13.

SOCIETY OF ARTS, at 8.—The Proposed High-Speed "Monorail" between Liverpool and Manchester: F. B. Behr.

THURSDAY, MARCH 14.

ROYAL SOCIETY, at 4.30.
 ROYAL INSTITUTION, at 3.—Greek and Roman Portrait Sculpture: Prof. Percy Gardner.
 MATHEMATICAL SOCIETY, at 5.30.
 SOCIETY OF ARTS (Indian Section), at 4.30.—The Growth and Trend of Indian Trade—a Forty Years' Survey: H. J. Tozer.
 INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Some Notes on Poly-phase Substation Machinery: A. C. Eborall.

FRIDAY, MARCH 15.

ROYAL INSTITUTION, at 9.
 INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Combined Trolley and Conduit Tramway Systems: A. N. Connett.
 EPIDEMIOLOGICAL SOCIETY, at 8.30.—The Enteric Fever Mortality in Copenhagen from 1828-1898: Dr. N. P. Schierbeck.—The Effect of Sewerage and Water Supply upon the Behaviour of Enteric Fever in Buenos Ayres: Dr. J. T. R. Davison.

SATURDAY, MARCH 16.

ROYAL INSTITUTION, at 3.—Sound and Vibrations: Lord Rayleigh, F.R.S.

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