Blanc shows a simple oscillation, maximum about 3-4 p.m., minimum about 3 a.m.—On magnetic dichroism of liquids, by M. Georges **Meslin**. Solutions of bichromate of potassium in turpentine and in carbon disulphide have the property of absorbing to unequal extents the rays parallel to, and perpendicular to, the magnetic field. This result is exhibited by the whole extent of the spectrum.—On the colour of mercuric iodide at different temperatures, by M. D. Gernez. The author has been able to keep yellow mercuric iodide unchanged for years in a vacuum. If the yellow crystals be cooled down from above 126° C. to about -192° C., they become almost white, while the red crystals at this temperature become orange-yellow.—On derivatives of plumbic acid, by M. Alb. Colson. Lead tetracetate may be obtained by the action of chlorine on a solution of lead acetate in acetic acid .- On the preparation of the crystalline sulphides of zinc and cadmium, by M. Georges Viard. If the vapours of zinc or cadmium chlorides, diluted with carbon dioxide, be passed over the sulphides of various metals, e.g. SnS, crystalline ZnS or CdS is formed.—On the action of alkaline earth bases on salts of the pyrogallol sulphonic acids, by M. Marcel **Delage.** If a solution of Ba(OH)₂ be added to one of barium, strontium, or calcium pyrogallol sulphonate, coloured bodies of complex constitution are formed.—On organic heats of combustion, by M. P. Lemoult. The theoretical and calculated values for the sixty cases given are very concordant.-On nitrated cellulose, by M. Léo Vignon. The product obtained analytical results agreeing very well with an oxycellulose trinitrate.—Association of bacteria with Ascobolus, by M. Molliard.—Action of calcium oxalate in the nutrition of plants, by M. Amar. The crystals of calcium oxalate become less numerous as the distance from the vein of the leaf increases; they are probably a product of excretion.—On the localisation of æsculin and of tannin in the chestnut tree, by M. A. Goris. The reaction made use of to detect æsculin is the blood-red colour produced by the consecutive action of concentrated nitric acid and ammonia.-On new fossil fungi and algæ of the coal period, by M. B. Renault.—On the Lycopodinaceæ of the Trias in Lorraine, by M. P. Fliche.—On nephrotoxins, by M. H. Bierry. If the bruised kidney of a dog be introduced into the blood of a rabbit, the blood becomes powerfully toxic, and produces strong albuminuria when injected into a dog. Nucleo-albumins derived from the kidneys produced the same effects.—On the speed of flow of subterranean waters, by MM. E. Fournier and A. Magnin.

DIARY OF SOCIETIES.

THURSDAY. APRIL 16.

MATHEMATICAL SOCIETY, at 5.30.—Exhibition of the Logo-Logarithmic Slide-rule: C. S. Jackson.—On the Deduction of Schlemilch's Series from a Fourier Series, and its Development into a Definite Integrals: R. F. Gwyther.—On those Functions which are Defined by Definite Integrals with not more than Two Singularities: E. T. Whittaker.—Note on Exact Solutions of the Problem of the Bending of an Elastic Plate under Pressure: Prof. A. E. H. Love—Relations between Points (in a Plane) having Conjugate Complex Coordinates: Prof. A. Lodge. LINNEAN SOCIETY, at 8.—On some Points in Connection with the Ordinary Development of Vaucheria Resting Spores: Dr. H. Charlton Bastian, F.R.S.—The Labial and Maxillary Palpi in Diptera: W. Wesché:—On Freshwater Rhizopods and their Classification: Prof. G. S. West.

FRIDAY, APRIL 17

EPIDEMIOLOGICAL SOCIETY, at 8.30.—The Seasonal Incidence of Typhoid Fever and Summer Diarrhoa: Dr. J. T. C. Nash.

SATURDAY, APRIL 18

GEOLOGISTS' ASSOCIATION.—Excursion in Conjunction with the Geological Section of the Croydon Natural History Society. Directors: N. F. Robarts and W. Whitaker, F.R. S. Members meet at New Cross Station (L. B. & S. C. R., down platform), at 3.21 p.m. Object: To see the Reopening of the Cutting S. of the Station, showing the Junction of the London Clay with the Beds below.

MONDAY APRIL 20.

VICTORIA INSTITUTE, at 4.30.—The Geolegical Conditions of the West Indian Volcanoes: Prof. J. W. Spencer.—On Volcanic Action, with Special Reference to the Recent Eruptions in the West Indian Islands: Prof. J. Logan Lobley.

TUESDAY, APRIL 21.

ROYAL INSTITUTION, at 5.—The Blood and some of its Problems: Prof. Allan Macfadyen.

ROYAL INSTITUTION, at 5.— The Blood and some of its Fromeius: Fiol. Allan Macfadyen.

ROYAL STATISTICAL SOCIETY, at 5.—Agricultural Wages in England and Wales during the last Fifty Years: A. Wilson Fox.

INSTITUTION OF CIVIL ENGINEERS, at 8.—The Decay of Metals: James T. Milton and William J. Larke.

ZOOLOGICAL SOCIETY, at 8.30.—On the Geographical Distribution of Spiders of the Order Mygalomerphe: R. I. Pocock.—On some Mammals

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collected by Capt. H. N. Dunn in the Soudan: Oldfield Thomas, F.R.S.—Linnæus and Hunter on Feather tracts: Henry Scherren.

F.R.S.—Linnæus and Hunter on Feather-tracts: Henry Schemed.

WEDNESDAY, APRIL 22.

Society of Arts, at 8.—Modern Bee Keeping: Walter F. Reid.

Chemical Society, at 5.30.—The Velocity and Mechanism of the Reaction between Potassium Ferricyanide and Potassium Iodide in Neutral Aqueous Solution: F. G. Donnan and R. de Rossignol.—A Microscopic Method of Determining Molecular Weights: G. Barger.—Note on the Spectrum of Pilocarpine Nitrate: W. N. Hartley.—Isomeric Change of Dipropionanilide into Propionyl-1-aminepropiophenone: F. D. Chattaway.—Note on the Formation of the Di- and Hexa-Methylammoniacal Chlorides of Cadmium: W. R. Lang.

THURSDAY, April 23.

THURSDAY, APRIL 23.

ROYAL INSTITUTION, at 5.—Hydrogen: Gaseous, Liquid and Solid: Prof. Dewar, F.R.S.

SOCIETY OF ARTS, at 4.30.—The Province of Sind: Dr. Herbert M. Birdwood.

INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Distribution Losses in Electric Supply Systems: A. D. Constable and E. Fawssett.—A Study of the Phenomenon of Resonance in Electric Circuits by the Aid of Oscillograms: M. B. Field. And, if time permit.—Divided Multiple Switchboards: An Efficient Teiephone System for the World's Capitals: W. Aitken.

W. Aitken.

FRIDAY. APRIL 24.

ROYAL INSTITUTION, at 9.— Some Recent Investigations on Electrical Conduction: The Hon. R. J. Strutt.

INSTITUTION OF CIVIL ENGINERS, at 8.—Bacterial Sewage-Disposal Works, at Ash, Dover: H. S. Watson.

PHYSICAL SOCIETY, at 5.—An Electrical Thermostat: H. Darwin.—Dimensional Analysis of Physical Quantities and the Correlation of Units: A. F. Ravenshear.—Note on the Limensions of Physical Quantities: R. J. Sowier.

INSTITUTION OF MECHANICAL ENGINEERS, at 8.—Address by the president, J. H. Wicksteed.—The Education of Engineers in America, Germany and Switzerland: Prof. W. E. Dalby.

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