

drop, and never be in excess.—Marcel **Dubard**: Remarks on the classification of the genus *Sideroxylon*.—J. **Granier** and L. **Boule**: The phenomena of the conjugation of the chromosomes at the prophase of the first reducing kinesis.—Raoul **Bayeux**: Experiments made at Mt. Blanc in 1910 on gastric secretion at very high altitude. The experiments were made on a dog, and showed that the quantity of gastric juice secreted in a given time, the feeding being maintained constant, diminishes in a marked manner during a stay at a high altitude. The total acidity is only slightly diminished under the same conditions. The general activity of the gastric juice is also slowed down. The bearing of these results upon mountain sickness is discussed.—H. **Agulhon**: The action of the ultra-violet rays upon diastases. Eight diastases were studied, and all of them were more or less rapidly attenuated by the radiations passing through quartz and arrested by glass.—Samuel **Lifchitz**: The sonorous reproduction of a periodic curve.—A. **Conte** and C. **Vaney**: The experimental reproduction of acephalous Lepidoptera.—E. **Roubaud**: Biological studies on the *Glossina* of central Dahomey.—H. **Coutière**: The ellobiopsis of bathypelagic crayfish.—Fernand **Gueguen**: Cladosporian mycosis in man. Details are given of a diseased condition in man caused by a fungus of the genus *Cladosporium*, the first example of a pathogenic action of a member of this genus.—R. **Robinson**: The heterotopic theory in pathology.—Louis **Gentil**: The formation of the south Riffian isthmus.—Ph. **Négris**: The existence of the Trias and Cretaceous on Mount *Voidias* in the north of the Peloponesus.

DIARY OF SOCIETIES.

THURSDAY, FEBRUARY 23.

ROYAL SOCIETY, at 4.30.—Transmission of Flagellates living in the Blood of certain Freshwater Fishes: Miss M. Robertson.—Report on the Separation of Ionium and Actinium from certain Residues, and on the Production of Helium by Ionium: Dr. B. B. Boltwood.—The Secondary γ -Rays produced by β -Rays: J. A. Gray.—The Specific Heat of Water and the Mechanical Equivalent of the Calorie at Temperatures from 0° to 80° C. With Additional Note on the Thermoid Effect: W. R. Bousfield and W. E. Bousfield.—On the Measurement of Specific Inductive Capacity: Prof. C. Niven, F.R.S.
ROYAL INSTITUTION, at 3.—Problems of Animals in Captivity: P. Chalmers Mitchell, F.R.S.
INSTITUTION OF ELECTRICAL ENGINEERS, at 8.—Long Distance Transmission of Electrical Energy: W. T. Taylor.—Extra High Pressure Transmission Lines: R. B. Matthews and C. T. Wilkinson.

FRIDAY, FEBRUARY 24.

ROYAL INSTITUTION, at 9.—Mouvement Brownien et Réalité Moléculaire: Prof. Jean Perrin.
PHYSICAL SOCIETY, at 5.—Flames of Low Temperature supported by Ozone: Hon. R. J. Strutt, F.R.S.—The Movement of a Coloured Index along a Capillary Tube, and its Application to the Measurement of the Circulation of Water in a Closed Circuit: Dr. Albert Griffiths.—An Optical Lever of High Power suitable for the Determination of Small Thicknesses and Displacements: E. H. Raver.
INSTITUTION OF CIVIL ENGINEERS, at 8.—The Design and Construction of Works for the Bacterial Purification of Sewage: R. J. Samuel.

MONDAY, FEBRUARY 27.

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Labrador: Dr. Wilfred T. Grenfell, C.M.G.
ROYAL SOCIETY OF ARTS, at 8.—Brewing and Modern Science: Prof. Adrian J. Brown.
INSTITUTE OF ACTUARIES, at 5.—The Assurance Companies Act, 1909, some Explanatory Notes on such Portions of the Act as relate to the Business of Life Assurance: A. R. Barrand.

TUESDAY, FEBRUARY 28.

ROYAL INSTITUTION, at 3.—Crystalline Structure: Mineral, Chemical, and Liquid: Dr. A. E. H. Tutton, F.R.S.
ROYAL SOCIETY OF ARTS, at 4.30.—The Resources and Problems of the Union of South Africa: The Hon. Sir Richard Solomon, K.C.B.
INSTITUTION OF CIVIL ENGINEERS, at 8.—Modern Railway-signalling: some Developments upon the Great Western Railway: A. T. Blackall.

WEDNESDAY, MARCH 1.

ENTOMOLOGICAL SOCIETY, at 8.—Persistence of Bacilli in the Gut of an Insect during Metamorphosis: A. Bacot.
SOCIETY OF PUBLIC ANALYSTS, at 8.—Examination of the Process of Shrewsbury and Knapp for the Estimation of Cocoa-nut Oil: R. Ross, J. Race, and F. Maudsley.—The Estimation of Iron by Permanganate in the Presence of Hydrochloric Acid: A. C. Cumming and A. Gemmell.—The Analysis of Sweetened Condensed Milk: A. Backe.—Note on Henry C. Frey's Method of Estimating Petroleum in Turpentine: H. S. Shrewsbury.—Note on the Formation of Hypoiodites and their Action on Sodium Thiosulphate—a source of error in certain Iodine Titrations: J. P. Batey.—New Form of Specific Gravity Apparatus: C. Butler Savory.
ROYAL SOCIETY OF ARTS, at 8.—Caisson Sickness and Compressed Air: Dr. Leonard Hill, F.R.S.

THURSDAY, MARCH 2.

ROYAL SOCIETY, at 4.30.—*Probable Papers*: Reversal of the Reflex Effect of an Afferent Nerve by altering the Character of the Electrical Stimulus applied: Prof. C. S. Sherrington, F.R.S., and Miss S. C. Sowton.—Carbon Dioxide output during Decerebrate Rigidity (preliminary communication): Dr. H. E. Roaf.—The Alcoholic Ferment of Yeast Juice. Part VI. The Influence of Arsenates and Arsenites on the Fermentation of the Sugars by Yeast Juice: Dr. A. Harden, F.R.S., and W. J. Young.—Experiments to ascertain if certain Tabanidae act as the Carriers of *Trypanosoma pecorum*: Col. Sir D. Bruce, F.R.S., and others.
LINNEAN SOCIETY, at 8.—Dermoptera (Earwigs) preserved in Amber, from Prussia: Dr. Malcolm Burr.—Report on the Marine Polyzoa of the Collection made by Mr. J. Stanley Gardiner in the Indian Ocean in H.M.S. *Sealark*: Miss Laura Roscoe Thornely.—On the Mysidacea and Euphausiacea collected in the Indian Ocean during 1905: W. M. Tattersall.
RÖNTGEN SOCIETY, at 8.15.—Some Experiments with a 10,000 volt. Storage Battery: A. A. Campbell Swinton.

FRIDAY, MARCH 3.

ROYAL INSTITUTION, at 9.—Scents of Butterflies: Dr. F. A. Dixey, F.R.S.
INSTITUTION OF CIVIL ENGINEERS, at 8.—Lagos Harbour Survey, 1909-1910: H. Ellis Hill.

SATURDAY, MARCH 4.

ROYAL INSTITUTION, at 3.—Radiant Energy and Matter: Sir J. J. Thomson, F.R.S.

MONDAY, MARCH 6.

SOCIETY OF ENGINEERS, at 7.30.—Petrol Air-gas: E. Scott-Snell.

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