

detonation of some gaseous mixtures. **ANDRÉ KLING** and **MAURICE ROUILLY**: A rapid method for determining the amount of carbon dioxide in gaseous atmospheres. **LOUIS MÉDARD** and **ROBERT MARCHAND**: The Raman effect of the neutral alkyl sulphates. The differences between the Raman spectrum of sulphuric acid and those of methyl and ethyl sulphates are greater than the differences between the spectra of the alkyl nitrates and nitric acid and suggest a peculiar molecular structure for sulphuric acid. **Mlle. Blanche Grédy**: Comparison of the Raman spectra of the 2-octene-1-ols and some of their *cis* and *trans* derivatives. **VICTOR HARLAY**: Some cupric and cuprous combinations of thiosemicarbazide and its derivatives. **MARCEL GODCHOT** and **Mlle. Germaine Cauquil**: The action of selenium dioxide on some cyclanones. **MARTIAL FÉLIX TABOURY** and **ROGER PAJEAU**: Beryllium bromide as a catalyst in the bromination of benzene. **J. JUNG** and **E. RAGUIN**: The petrography of an epicristallophyllian series of the Beaujolais. **MAURICE ROQUES**: The relations between the amphibolites and peridotites at Sarrazac (Dordogne). **FERNAND JACQUET**: The lower Eocene age of the phosphate deposits of Senegal. **PIERRE COMTE**: The Devonian of Léon (Spain). **Mlle. Marie Chaubert**: The certain presence of the Llandovery in the Gothlandian of the Montagne Noire. **JOSEPH BOUGET**: The distribution of aphid on the high ground and the lower parts of the Pyrenees valleys (Adour region). The greatly increased yield of potato plants exposed to high winds, as on hill-tops or on the coast, is explained as being due to the unfavourable effects of the wind on the plant aphid, the latter being known to carry disease. **JULIEN COSTANTIN**: Remarks on the preceding communication of J. Bouget. **STEFAN JELLINEK**: The parallelism of the physiological and morphological action of the cathode (commercial direct current on the human skin). **RENÉ HAZARD**: Sparteine, the antagonist of yohimbine on adrenaline hyperglycaemia. **RAOUL MICHEL MAY**: The duration of subcutaneous brephoplastic grafts of thyroid in the rat. **ETIENNE RABAUD**: Stereotropism of the hermit crabs. **VICTOR PLOUVIER**: The presence of amygdonitrile glucoside in the genus *Cotoneaster* and the leaves of *Cydonia vulgaris*. **THÉOPHILE CAHN** and **JACQUES HOUGET**: The transformation of glycogen into lactic acid in muscular extracts of normal and diabetic dogs. The experiments described show that diabetic muscle is capable of converting glycogen into lactic acid, but with a lower velocity. **RAYMOND HAMET**: Bulbocapnine, a type of a new group of medicaments.

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Royal Academy of Sciences (*Proc.*, 38, No. 10, December 1935). **L. RUTTEN**: The Antilles arc. There is no distinction stratigraphically or tectonically between the Greater and Lesser Antilles. They are to be considered as a recent tectonic structure. **J. G. VAN DER CORPUT**: Distribution functions (2). **F. A. H. SCHREINEMAKERS**, **MISS J. C. LANZING** and **C. L. DE VRIES**: Influence of the nature of the membrane and the temperature on the osmotic system of water and oxalic acid. This system behaves quite differently according to whether the membrane is a pig's bladder or 'cellophane'. **A. N. J. HEYN**: Chemical nature of some growth hormones as determined by the diffusion method. The hormones from the coleoptile tips of *Avena* and the root tips of *Vicia Faba* are shown to be identical with auxin *a* and

that from the sporangiophore of *Phycomyces nitens* with indolylacetic acid. **J. J. WAKKIE**: Notes on the possible structure of the chlorophyll granules in the plastid. Attempt to produce an anisotropic fluorescent chlorophyll model which will reproduce the properties of chlorophyll in the plastid. **W. BEIJERINCK**: Polymorphism and colour of the *Calluna* flower. Observations on the varieties found in the heath land of the Drenthe province of Holland. **W. BEIJERINCK**: The opening of the flower buds of *Calluna vulgaris*, L., Salisb. The influence of temperature and water-supply on the opening of the buds of this flower. **B. VAN DER EYKEN**: Denture and teeth development in the Irisfelle (*Salmo irideus*). (2) Tongue. Studies on embryos to determine the stages in the development of the teeth. **C. P. RAVEN**: Experimental investigations on glycogen metabolism of the organisation centre in the amphibian gastrula (2). **C. P. RAVEN**: Assimilatory induction in the dorsal lip of the blastopore of the amphibian gastrula.

Forthcoming Events

[Meetings marked with an asterisk are open to the public.]

Saturday, March 7

BIOCHEMICAL SOCIETY, at 2.30.—(at University College, London, W.C.1).—Annual General Meeting.

BRITISH PSYCHOLOGICAL SOCIETY, at 3.—(at Bedford College, Regent's Park, N.W.1).—Symposium on "Appetites". Papers by Prof. David Katz, C. A. Mace and Dr. C. A. McCurdy.

Monday, March 9

ROYAL SOCIETY FOR THE PROTECTION OF BIRDS, at 3.—(in Westminster Palace Rooms, 44, Victoria Street, S.W.1).—Annual General Meeting.

Discussion on "Bird Sanctuaries".

ROYAL GEOGRAPHICAL SOCIETY, at 5.—E. R. Gunther: "Variations in Behaviour of the Peru Coastal Current".

Tuesday, March 10

ROYAL INSTITUTION, at 5.15.—Prof. Edward Mellanby, F.R.S.: "Drug-like Actions of Some Foods" (succeeding lectures on March 17, 24 and 31).

INSTITUTION OF CIVIL ENGINEERS, at 6.—D. Anderson: "The Construction of the Mersey Tunnel".

Wednesday, March 11

ROYAL SOCIETY OF ARTS, at 8.—Dr. G. W. C. Kaye: "The Acoustics of Halls".

Thursday, March 12

ROYAL SOCIETY, at 11.30.—Discussion on "Surface Phenomena—Films" to be opened by Prof. E. K. Rideal, F.R.S.

Saturday, March 14

ROYAL INSTITUTION, at 3.—The Right Hon. Lord Rutherford, O.M., F.R.S.: "Recent Researches on Transmutation" (succeeding lectures on March 21, 28 and April 4).

INSTITUTE OF METALS, March 11–12.—Annual General Meeting to be held at the Institution of Mechanical Engineers, Storey's Gate, Westminster, S.W.1.

March 11, at 10.—W. R. Barclay: Presidential Address.

(March 10.—Special Discussion on "Metallic Wear", to be opened by Dr. H. W. Brownsdon.)