

certain conditions detailed, a primary amine $R.NH_2$ reacts with the acid sulphate of dicyandiamidine—giving guanidine sulphate and the symmetrical urea $CO(NH.R)_2$.—P. Weill and Mlle. Madeleine Darmon: The isomerisation of phenylglycide. The affinity capacity of the primary alcohol group.—J. Bougault and Mlle. Pinguet: The combinations of allantoxanic acid and of allantoxidine with the alkaline bisulphites. Crystalline compounds are formed, slightly soluble in water and hence useful from the analytical point of view.—R. Marcel Godchot and Max Mousseron: The resolution of *o*-aminocyclohexanol into its optical antipodes.—Mlle. D. Biard: The preparation of the cyanhydrins of the formula $C_6H_5(CH_2)_n.CH(OH).CN$, $C_6H_5.(CH_2)_nCH(CH_2).CH(OH).CN$ and the corresponding α -acid-alcohols.—Ch. Courtot and P. Chiffert: The aryl thioniums with strictly hydrocarbon radicals.—M. Battégay and H. Silbermann: The aryl ethers of pseudo-urea.—J. P. Arend: The constitution of oolitic minerals and its relation with the facies of the deposits.—André Demay and Henri Longchambon: The antistephanian tectonic of the Cévennes at the height of Largentière.—Raymond Furon: The extension of the marine Devonian in western Africa.—Antonin Lanquine: The dislocations of the secondary strata of the valley of Caramy, below its confluent with the Issole (Var).—L. Dubertret, A. Keller, and H. Vautrin: Contribution to the study of the Syrian desert region.—Henri Erhart: The types of soils in the loess district in Alsace.—L. Cagniard: The reflection of a spherical and isotropic seismic wave at the surface of the soil.—L. Eblé and G. Gibault: The values of the magnetic elements at the station of Val-Joyeux (Seine-et-Oise) on Jan. 1, 1932.—R. Hicel: The two layers of tertiary plants in the Bas-Rhin.—J. Szymanek: Supplementary carvological observations on *Gossypium*.—Paul Wintrebert: The preservation in paraffin sections of the vital marks in Bismarck brown and Nile blue, made on the living eggs of Amphibians.—A. Policard and A. Morel: The comparative utilisation of a spark or of an arc in the spectrography of sections (histospectrography).—Maurice Lecamp: Grafts of fragments of the posterior limbs in *Alytes obstetricans*.—A. Girard, G. Sandulesco, A. Fridenson, C. Gaudetroy, and Ir. J. J. Rutgers: The crystallised sexual hormones extracted from the urine of pregnant mares. Detailed crystallographic study of folliculine and equiline. The composition of the latter is probably $C_{18}H_{20}O_2$: its physical, chemical, and physiological characters are described. A third crystalline hormone isomeric with equiline (hippuline) has been isolated.—Mmes. Eudoxie Bachrach and Jeanne Roche: The prolonged action of potassium chloride produces a displacement of the thermal optimum of yeasts.—Ph. Lasseur, M. Pierret, A. Dupaix, and C. Maguitot: Remarks on the bactericidal power of metallic silver.—Michel Faguet: Contribution to the study of microbial multiplication (*Bacterium coli*). The opacity of a broth culture is taken as measuring the number of micro-organisms. The variations in the opacity have been measured and recorded by means of a photoelectric cell. A reproduction of a 12-hour record is given.—C. Jonesco-Mihaesti, D. Noica, and B. Wisner: The experimental transmission to the ape of a disseminated human encephalomyelitis.—G. Mouriquand, A. Leulier, and Mlle. Weill: Age and substances preventing the assimilation of lime.

LENINGRAD

Academy of Sciences—*Comptes rendus*, No. 11, 1931.—V. Vernadsky: The field of stability of the liquid carbonic acid in the biosphere. Carbonic acid in liquid form exists in microscopic pores of many

minerals and must play an important part, but the problem has never been studied. Still more important is the fact that the low average temperature of water in oceans, coupled with great pressure in oceanic depths, make the existence in deep waters of liquid carbonic acid a certainty, and this cannot be without an effect on the life of organisms. It is possible, for example, that the absence of planktonic organisms at relatively small depths, where there is still light, is due to peculiar conditions for respiration owing to a certain part of the carbonic acid being in liquid state (see also NATURE, April 23, p. 607).—V. Chlopin: Geochemistry of noble gases.—E. Krinov: A bolide meteor of Nov. 23, 1930, in the Nijny-Novgorod region. Observations by eye-witnesses are quoted and a sketch-map of its track is presented.—A. Reichardt: On a new representative of the genus *Philotis*, Rehd. Description of *Philotis atavus*, sp. n., from Buchara.

SYDNEY

Linnean Society of New South Wales, Nov. 25.—W. W. Froggatt: A classification of the gall-making coccids of the genus *Apiomorpha*. The male and female galls are described and the range of each species, together with the name of the host eucalypt, is given. The species of the genus are classified into groups based on the form and disposition of the hairs and spines on the dorsal surface and the structure of the anal appendages.—Ida A. Brown: The stratigraphical and structural geology of the Devonian rocks of the south coast of New South Wales. The formations found in the south coast district are correlated with a number of other occurrences of Devonian rocks in south-eastern Australia, and the palæogeography of the Devonian era is considered.—H. M. R. Rupp: Notes on New South Wales orchids. A description is given of a teratological specimen of *Caladenia testacea* from the South Maitland coalfields, and a distinctive form of *Dendrobium teretifolium* var. *Fairfaxii* is recorded.—Gladys Carey: Note on the leaf-buds of *Angophora*. More detailed examination of the leaf bud of species of *Angophora*, previously described by the author as "an ill-defined axillary swelling", shows that this swelling is in reality a deep-seated bud of peculiar type in which the primordia are well differentiated.—Lilian R. Fraser: An investigation of *Lobelia gibbosa* and *Lobelia dentata*. Mycorrhiza, latex system, and general biology. The root is infected from the first by the fungus, which remains in an intercellular position in the cortex. The fungus infects the younger parts of the root and all lateral roots by growing down from the older region, and goes through a series of changes, being finally almost crushed out by the cortical cells of the root. Re-infection of roots takes place at intervals from the soil, rhizomorph-like strands of the fungus coming into contact with the root and penetrating into the cortex. The latex system of the two species is briefly described.

Forthcoming Events

FRIDAY, APRIL 29

ASSOCIATION OF ECONOMIC BIOLOGISTS (in Botany Department, Imperial College of Science and Technology), at 2.30.—Dr. S. G. Paine: The Relationship of Micro-organisms to the Decay of Stone.—Dr. E. S. Moore: Virus Disease Problems in Tobacco Cultivation in South Africa.

ROYAL ASTRONOMICAL SOCIETY, at 4.30.—Geophysical Discussion: The Maintenance of the Earth's Electric Field. To be opened by Dr. F. J. W. Whipple, and continued by Dr. G. C. Simpson and others.

INSTITUTION OF ELECTRICAL ENGINEERS (Meter and Instrument Section), at 7.—Dr. C. V. Drysdale: Future Progress in Electrical Measuring Instruments (Lecture).
ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. H. Hartridge: The Rival Theories of Hearing.

MONDAY, MAY 2

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.—Annual Meeting.
UNIVERSITY COLLEGE, LONDON, at 5.15.—Prof. O. Grosser: Human and Comparative Placentation, including the Early Stages of Human Development (1). (Succeeding Lectures on May 5 and 6.)
SCHOOL OF ORIENTAL STUDIES, at 5.30.—Prof. G. Morgenstierne: The Káfrs of the Hindu Kush (1). (Succeeding Lectures on May 4 and 6.)
ROYAL SOCIETY OF ARTS, at 8.—Prof. J. C. Drummond: Recent Researches on the Nature and Function of Vitamins (Cantor Lectures) (3).
SOCIETY OF CHEMICAL INDUSTRY (London Section) (Annual Meeting) (at Chemical Society), at 8, followed by a General Discussion on Smoke Abatement in Industry.

TUESDAY, MAY 3

ROYAL ANTHROPOLOGICAL INSTITUTE (African Research Committee), at 4.30.—Methods of Study of Culture Distribution in Africa.
ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Dr. Harriette Chick: The Relation of Light to Nutrition (Oliver-Sharpay Lectures) (1).
ROYAL SOCIETY OF MEDICINE (Orthopædics Section), at 5.30.—Annual General Meeting.
UNIVERSITY COLLEGE, LONDON, at 5.30.—Dr. W. A. Shewhart: The Role of Statistical Method in Industrial Standardisation (1). (Succeeding Lectures on May 5 and 6.)
GOLDSMITHS' COLLEGE (New Cross), at 5.45.—Exhibition in connexion with the Teaching of Geography.—At 5.45.—Sir Halford Mackinder: Inaugural Address.

WEDNESDAY, MAY 4

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, at 5.30.—Aldous Huxley: Huxley as a Literary Man (Huxley Memorial Lecture).
NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY (at London School of Economics), at 5.30.—Dr. C. S. Myers: Psychological and Social Factors in Business Rationalisation (1): The Significance of Rationalisation.
GOLDSMITHS' COLLEGE (New Cross), at 5.45.—L. Brooks: The Teaching of Geography—The Modern Approach.
EUGENICS SOCIETY (at Royal Society).—Annual General Meeting.

THURSDAY, MAY 5

IRON AND STEEL INSTITUTE (at Institution of Civil Engineers), at 10 A.M.—Annual Meeting.
ROYAL SOCIETY, at 4.—Election of Fellows.
ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Dr. Harriette Chick: The Relation of Light to Nutrition (Oliver-Sharpay Lectures) (2).
LONDON SCHOOL OF ECONOMICS, at 5.—Dr. R. R. Marett: Covenant in Primitive Economics, Law, and Religion (1). (Succeeding Lecture on May 12.)
GOLDSMITHS' COLLEGE (New Cross), at 5.45.—Prof. E. G. R. Taylor: First Ventures on the Atlantic—A Study in the Relations of Human and Physical Geography.
INSTITUTION OF ELECTRICAL ENGINEERS (Varley Centenary Meeting), at 6.—Lt.-Col. A. G. Lee: The Lives and Work of Cromwell Fleetwood Varley (April 6, 1828) and Samuel Alfred Varley (March 22, 1832).—Annual General Meeting, at 6.45.
SIR JOHN CASS TECHNICAL INSTITUTE (31 Jewry Street, E.C.), at 7.—Prof. C. O. Bannister: Ancient and Modern Metallurgy (Armourers and Brasiers' Company Lectures) (1). (Succeeding Lectures on May 12 and 19.)

FRIDAY, MAY 6

IRON AND STEEL INSTITUTE (at Institution of Civil Engineers), at 10 A.M.—Annual Meeting.
ROYAL SOCIETY OF MEDICINE (Otology Section) (Annual

General Meeting), at 10.30 A.M.—Discussion on Labyrinthitis.

CAMBRIDGE UNIVERSITY (in Senate House), at noon.—Prof. A. Einstein: Die Theorie der Elektrizität im Rahmen der allgemeinen Relativitätstheorie (Rouse Ball Lecture).

INSTITUTION OF MECHANICAL ENGINEERS (London Spring Meeting), at 2.30.—A. Binns: Recent Developments in the Mechanical Equipment of the Port of London Authority.

ROYAL SOCIETY OF ARTS (Indian Meeting), at 4.30.—Miss B. M. le P. Power: Indian Labour Conditions.

SOCIETY OF CHEMICAL INDUSTRY AND INSTITUTE OF CHEMISTRY (Joint Scottish Meeting) (at University, St. Andrews), at 5.—Prof. J. Read: Alchemical Literature and Iconography (Lecture).

ROYAL SOCIETY OF MEDICINE (Laryngology Section), at 5.—Annual General Meeting.

PHYSICAL SOCIETY (in Physiological Laboratory, University College), at 5.—Prof. A. V. Hill: The Measurement and Analysis of the Heat Production of Nerve (Lecture).

UNIVERSITY COLLEGE, at 5.30.—Sir Bernard Pares: Russia and the West (Lecture).

GOLDSMITHS' COLLEGE (New Cross), at 5.45.—Prof. J. F. Unstead: Recent Developments of the Regional Method—as applied to Teaching.

ROYAL INSTITUTION OF GREAT BRITAIN, at 8.30.—Conversazione.

ROYAL SOCIETY OF MEDICINE (Anæsthetics Section), at 8.30.—Annual General Meeting.

CAMBRIDGE UNIVERSITY (in Anatomy Lecture Room, New Museum).—Prof. J. J. R. Macleod: Linacre Lecture.

SATURDAY, MAY 7

GOLDSMITHS' COLLEGE (New Cross), at 3.30.—Prof. H. J. Fleure: Social and National Ideals in their Geographical Settings—A Study of Some European Problems.

Official Publications Received

BRITISH

The West of Scotland Agricultural College. Research Bulletin No. 2: A Nematode Disease of Potatoes caused by *Heterodera schachtii* (Schmidt). By Dr. D. G. O'Brien and E. G. Prentice. Pp. 63+23 plates. (Glasgow.)
Proceedings of the Royal Irish Academy. Vol. 40, Section B, No. 14: Observations on the Reproduction of *Nyctiphanes couchii* (Bell) and *Meganyciphanes norvegica* (Sars) off the South Coast of Ireland. By Winifred E. Frost. Pp. 193-232. 1s. 6d. Vol. 40, Section A, No. 6: A Characteristic Property of Systems of Paths. By Charles H. Rowe. Pp. 99-106. 6d. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.)
Reports of the Council and Auditors of the Zoological Society of London for the Year 1931, prepared for the Annual General Meeting to be held on Friday, April 29th, 1932, at 4 p.m. Pp. 99. (London.)
Dominion of Canada. Fourteenth Annual Report of the National Research Council containing the Report of the President and Financial Statement, 1930-1931. Pp. 210. (Ottawa.)
Tanganyika Territory: Geological Survey Department. Bulletin No. 2: Report on the Geology of the Ruhuhu Coalfields, Njombe—Songea Districts; being a Preliminary Geological Survey of the Karoo Rocks, East of Lake Nyasa, by G. M. Stockley, and Technical Report on the Coal Samples, by F. Oates. Pp. vi+68+7 plates. (Dar es Salaam: Government Printer.) 5s.

FOREIGN

Carnegie Institution of Washington. Annual Report of the Director of the Department of Terrestrial Magnetism. (Reprinted from Year Book No. 30, for the Year 1930-31.) Pp. ii+281-375. (Washington, D.C.: Carnegie Institution.)
Bulletin of the Earthquake Research Institute: Tokyo Imperial University. Vol. 10, Part 1, March. Pp. 272+38 plates. (Tōkyō: Iwanami Shoten.) 4.45 yen.
Académie Tchéque des Sciences (Česká Akademie Věd a Umění.) Bulletin International. Résumés des travaux présentés, Classe des sciences mathématiques, naturelles et de la médecine. 29^e année (1928). Pp. iv+556. 30^e année (1929). Pp. v+475. (Prague.)
Proceedings of the Imperial Academy. Vol. 8, No. 2, February. Pp. iii-iv+27-57. (Tokyo.)
Methods and Problems of Medical Education. (Twentieth Series.) Pp. iv+250. (New York City: The Rockefeller Foundation.)

CATALOGUES

General Catalogue of Books and Prints, 1932. (No. 547.) Pp. 96 (London: Francis Edwards, Ltd.)
Important and Rare Books on Gardening (including Herbals), Agriculture and Husbandry (1481-1800). (New Series, No. 27.) 5s. (London: Wheldon and Wesley, Ltd.)
A Catalogue of Book Bargains. (No. 535.) Pp. 16. (London: William Glaisner, Ltd.)