

of pyrrolidin.—H. Suida and H. Pröll: The composition of acetone oils.—P. Gross: The heat of dilution of electrolytic solutions.—W. J. Muller and E. Noack: The passivity of chromium.—B. P. Wiesner: The sexual cycle of the rat (v.). The secretion pause during the interval.—L. Schmid and G. Bilowitzki: Communications on inulin (iii.). Piperidin was used as a solvent to determine molecular weight by boiling-point methods.—F. Sigmund and G. Marchart: The behaviour of aldehyde-acetals during hydration after the method of Sabatier and Senderens.—R. Dworzak and P. Pifferling: Studies on *α*-brom- and oxyaldehyde.—O. Koller and K. Lohberger: Fish from the Thian-Shan.—M. Holly: Siluridae, Cyprinodontidae, Acanthopterygiae, and Mastacembelidae from Kamerun.—J. Kozeny: Capillary conduction of water in the ground, its rise, oozing away, and application to irrigation.—A. Paltauf: The colouring of living cell nuclei. Experiments with weak erythrosin solution on onions and with eosin on dahlia. Salts of magnesium and potassium favour intake of colour.—R. Andreasch: On acetoguanamin-sulphonic-acid and related bodies.—F. Werner and others: Miscellanea Sudanica, being part xxiv. of the scientific results of a zoological expedition to the Anglo-Egyptian Sudan.—G. Kirsch and H. Pettersson: Atomic disintegration by *α*-particles. (v.) On the question of the existence of atomic fragments of short range. (vi.) The disintegration of carbon. The fragments from carbon, at least in a large part, are hydrogen particles.—G. Stetter: Determination of the quotient, charge over mass, for atomic fragments from carbon, boron, and iron.—R. Holoubek: The detection of atomic fragments by the Wilson method.—E. Kainradl: Contributions to the biology of *Hydrolea spinosa*, with special consideration of the pericarp and seed development. The epithelial cells are a food store. A typical light germinator.

Official Publications Received.

BRITISH.

The National University of Ireland. Calendar for the Year 1927. Pp. viii+326+428+173. (Dublin.)
 Memoirs of the Asiatic Society of Bengal. Vol. 8, No. 6: Chemistry in Iraq and Persia in the Tenth Century A.D. By H. E. Stapleton, the late R. F. Azo, and Prof. M. Hidayat Husain. Pp. 315-417. 5.1 rupees. Vol. 9, No. 3: Geographic and Oceanographic Research in Indian Waters. By R. B. Seymour Sewell. Pp. 51-129. 2.18 rupees. (Calcutta.)
 Union of South Africa: Department of Agriculture. Reprint No. 80: Weeds of South Africa, Part 4. By K. A. Lansdell. Pp. 35. (Pretoria: Government Printing and Stationery Office.) 3d.
 Canada. Department of Mines: Mines Branch. Abrasives: Products of Canada, Technology and Application. Part 2: Corundum and Diamond. By V. L. Eardley-Wilmot. (No. 675.) Pp. v+51. 15 cents. Abrasives: Products of Canada, Technology and Application. Part 3: Garnet. By V. L. Eardley-Wilmot. (No. 677.) Pp. vii+69. 20 cents. (Ottawa: E. A. Acland.)
 Union of South Africa: Department of Mines and Industries. Geological Survey, Memoir No. 25: A Bibliography of South African Geology for the Years 1921 to 1925 (Inclusive). Authors' Index. By Dr. A. L. Hall. Pp. 117. (Pretoria: Government Printing and Stationery Office.) 5s.
 Medical Research Council. Seventh Annual Report of the Industrial Fatigue Research Board to 31st December 1926. Pp. 28. (London: H. M. Stationery Office.) 9d. net.
 Quarterly Journal of Experimental Physiology. Vol. 17: Sutherland Simpson Memorial Volume. Pp. viii+210+25 plates. (London: Charles Griffin and Co., Ltd.) 30s.

FOREIGN.

Methods and Problems of Medical Education. (Seventh Series.) Pp. iv+99. (New York: The Rockefeller Foundation.)
 Report of the Aeronautical Research Institute, Tôkyô Imperial University. No. 24: Studies on Inflammability of Hydrogen. By Yoshio Tanaka and Yûzaburo Nagai. iii. Influence of Di-ethyl Selenide on the Limits of Inflammability of Hydrogen-Air Mixtures. Pp. 265-273. 0.20 yen. No. 25: Studies on Inflammability of Hydrogen. By Yoshio Tanaka and Yûzaburo Nagai. iv. Influence of Hydrogen Selenide on the Limits of Inflammability of Hydrogen-Air Mixtures. Pp. 275-284. 0.20 yen. (Tôkyô: Koseikai Publishing Office.)
 The Carnegie Foundation for the Advancement of Teaching. Twenty-first Annual Report of the President and of the Treasurer. Pp. vii+250. (New York.)

Proceedings of the United States National Museum. Vol. 69, Art. 5: Catalogue of Human Crania in the United States National Museum Collections. The Algonkin and related Iroquois; Sioutan, Caddoan, Salish and Sahaptin, Shoshonean, and Californian Indians. By Ales Hrdlička. (No. 2631.) Pp. 127. (Washington, D.C.: Government Printing Office.)
 Koninklijk Magnetisch en Meteorologisch Observatorium te Batavia. Jaarverslag 1926. Pp. 30. (Wetveredren: Landsdrukkerij.)
 Proceedings of the United States National Museum. Vol. 70, Art. 4: A Taxonomic and Ecological Review of the North American Chalcid-Flies of the Genus *Callimome*. By L. L. Huber. (No. 2663.) Pp. 114+4 plates. Vol. 71, Art. 7: Orthopteroid Insects from the Maritime Province of Siberia. (On the Insect Fauna of the Maritime Province of Siberia.) By A. N. Caudell. (No. 2679.) Pp. 7. Vol. 71, Art. 8: Larger Foraminifera of the Genus *Lepidocyclus* related to *Lepidocyclus* mantelli. By T. Wayland Vaughan. (No. 2680.) Pp. 5+4 plates. (Washington, D.C.: Government Printing Office.)
 Smithsonian Institution: United States National Museum. Contributions from the United States National Herbarium. Vol. 26, Part 2: The Piperaceae of Panama. By William Trelease. Pp. v+15-50+vii-viii. (Washington, D.C.: Government Printing Office.) 10 cents.
 Ministry of Agriculture, Egypt: Technical and Scientific Service. Bulletin No. 73: A Rapid and Accurate Means of Estimating Nicotine in Tobacco and Tobacco Extracts. By Dr. R. R. Le Geyt Worsley. Pp. 5. (Cairo: Government Publications Office.) 2 P.T.

CATALOGUES.

The Thomas Gas Meter for the Accurate Measurement of Gas. Pp. 24. (London: Cambridge Instrument Co., Ltd.) (List No. 151.)
 Siemens Electrical Distance Thermometers. (Pamphlet 840 A.) Pp. 12. Siemens Electrical Pyrometers and Thermometers. (Leaflet 2050.) Pp. 4. (London: Siemens Bros. and Co., Ltd.)

Diary of Societies.

SATURDAY, JULY 9.

BRITISH MYCOLOGICAL SOCIETY (Phytopathological Meeting) (at the Research Station, East Malling, Kent), at 11.30.—R. G. Hutton: General Account of the Station and its Activities.—At 12.—Demonstration of Reversion in Black Currants, by Mr. Hutton and Mr. Anos.—At 1.30.—Dr. H. Wornald: Brief Outline of the Pathological Problems under Investigation at East Malling.—1.45 to 3.45.—Tour of Egham Field and Great East Field, and Examination of Specimens, Cultures, etc., in the Laboratory. Features of pathological interest include examples of 'Die-back' in Plum Trees, various Raspberry Diseases, Walnut Bacteriosis, Spraying Experiments against Raspberry Anthracnose, and Apple Spraying Experiments, etc.—At 4.30.—General Discussion.
 HARVEIAN SOCIETY OF LONDON (at Star and Garter Hospital, Richmond), at 4.30.

SATURDAY, JULY 16.

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS (Eastern District Meeting) (at Guildhall, Cambridge), at 2.

CONGRESSES.

JULY 11 to 16.

ROYAL SANITARY INSTITUTE (at Hastings).
 Monday, July 11, at 5.—Sir William Joynson-Hicks, Bart.: Inaugural Address.
 Tuesday, July 12, at 10 A.M.—Meetings of Sections, and Conferences as follows:—Sanitary Science and Preventive Medicine, Representatives of Sanitary Authorities, Engineers and Surveyors, Health Visitors.
 At 8 P.M.—Sir William H. Willcox: Chronic Rheumatism in its Relation to Industry (Lecture).
 Wednesday, July 13, at 10 A.M.—Meetings of Sections, and Conferences as follows:—Sanitary Science and Preventive Medicine, Personal and Domestic Hygiene, Hygiene in Industry, Authorities of Health Resorts, Sanitary Inspectors.
 Thursday, July 14, at 10 A.M.—Meetings of Sections, and Conferences as follows:—Engineering and Architecture, Maternity and Child Welfare, including School Hygiene, Veterinary Hygiene, Medical Officers of Health.
 Friday, July 15, at 10 A.M.—Meetings of Sections, and Conferences as follows:—Engineering and Architecture, Maternity and Child Welfare, including School Hygiene, Hygiene of Food, Veterinary Hygiene.
 At 8 P.M.—Film illustrating The Treatment and Training of Crippled Children, by Sir Henry Gauvain.
 Saturday, July 16.—Excursions.

JULY 18 to 22.

ROYAL MEDICO-PSYCHOLOGICAL ASSOCIATION (at Royal College of Physicians and the University, Edinburgh).
 July 19.—Dr. H. C. Marr: Dante and Rabelais: An Account of Two Medieval Physicians, with a Summary of their Philosophy.
 July 20.—Dr. W. Hunter, Sir William Willcox, Sir Berkeley Moynihan, Dr. C. H. Bond, Dr. H. A. Cotton, Dr. T. C. Graves, Lieut.-Col. J. R. Lord, Dr. W. F. Menzies, Dr. A. Meyer, and Dr. D. C. Watson: Discussion on Chronic Sepsis as a Cause of Mental Disorder.
 July 21.—Dr. Ivy Mackenzie, Dr. J. G. Greenfield, Dr. R. M. Marshall, Dr. G. Riddoch, and others: Discussion on Epidemic Encephalitis.
 July 22.—Prof. G. M. Robertson and others: Discussion on Points in the Lunacy Commission (England) Report—(1) What legal facilities are required for treatment? (2) How far is judicial intervention necessary? (3) What safeguards against improper detention are inadequate?