

physiological action of strontium. Continued endo-muscular administration of strontium hexose-oxypropionate to fowls causes a characteristic intoxication developed at the expense of the nervous system. The first symptom is wasting accompanied by a voracious appetite, nervous changes appearing later. The symptoms as a whole are reminiscent of those produced by lack of vitamin B and are to some extent attenuated by administration of this vitamin.—C. Guareschi: The ootocysts of anuran amphibia considered as a mosaic system.—S. Pastore: A special method of staining malaria parasites.

Official Publications Received.

BRITISH.

City and Guilds of London Institute. Annual Report of the Council to the Members of the Institute, 1928. Pp. xlix+72. (London.)

Indian Central Cotton Committee: Technological Laboratory. Technological Bulletin, Series A, No. 12: Technological Reports on Standard Indian Cottons, 1929. By A. James Turner. Pp. iv+125. (Bombay.) 2 rupees.

Report of the Nineteenth Meeting of the Australasian Association for the Advancement of Science (Australia and New Zealand). Hobart Meeting, January 1928. Edited by Clive E. Lord. Pp. xl+707. (Sydney, N.S.W.)

Transactions of the Royal Society of Edinburgh. Vol. 56, Part 2, No. 14: Studies on the Scottish Marine Fauna; The Fauna of the Sandy and Muddy Areas of the Tidal Zone. By A. C. Stephen. Pp. 291-306. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.) 2s.

Air Ministry: Aeronautical Research Committee. Reports and Memoranda. No. 1195: A Mechanical Method for Solving Problems of Flow in Compressible Fluids. By G. I. Taylor and Dr. C. F. Sharman. Pp. 21+1 plate. 1s. net. No. 1197 (Ae. 358): Wing Flutter Experiments upon a Model of a Single Seater Biplane. By W. G. A. Perring. (T. 2684.) Pp. 20+10 plates. 1s. 3d. net. No. 1216 (Ae. 375): The Lift and Pitching Moment of an Aerofoil due to a Uniform Angular Velocity of Pitch. By H. Glauert. (T. 2687.) Pp. 9+2 plates. 9d. net. No. 1219 (M. 59): Investigation into the Proposed Use of a Sand Cast Test Bar for Specification Purposes for Aluminium Alloys. By Dr. W. Rosenhain and S. I. Archbutt. Work performed for the Engineering Research Board of the Department of Scientific and Industrial Research. (A. 55.) Pp. 9. 6d. net. No. 1225 (Ae. 380): Wind Tunnel Tests of a R.A.F. 30 Wing fitted with a Self-setting Slotted Wing (Pilot Plane). By F. B. Bradfield and S. Scott Hall. (T. 2471.) Pp. 12+4 plates. 9d. net. No. 1226: The Characteristics of a Tapered and Twisted Wing with Sweep-back. By H. Glauert and S. B. Gates. (T. 2730.) Pp. 19+4 plates. 1s. net. No. 1236 (Ae. 391): The Control of the Fokker F. VII-3M Aeroplane. Interim Report by the Stability and Control Panel, with an Appendix giving Precise Pilots' Reports. (T. 2408.) Pp. 5. 4d. net. (London: H.M. Stationery Office.)

Cambridge Observatory. Annual Report of the Observatory Syndicate, 1928 May 19-1929 May 18. Pp. 3. (Cambridge.)

Journal of the Royal Microscopical Society. Series 3, Vol. 49, Part 2, June. Pp. 91-209+ xvi. (London.) 10s. net.

Annals of the (Mededelingen van het) Transvaal Museum. Vol. 13, Part 1. Pp. 69+15 plates. Vol. 13, Part 2. Pp. 71-121. (Pretoria.)

Department of Scientific and Industrial Research. Report of the Forest Products Research Board, with the Report of the Director of Forest Products Research, for the Period ended 30th September 1928. Pp. v+71+10 plates. (London: H.M. Stationery Office.) 3s. net.

Association of Technical Institutions. Paper read at the Summer Meeting, June 27th, 28th and 29th, 1929, on "The Relation between the Technical College and the Local University", by Principal W. A. Richardson. Pp. 19. (Loughborough: Loughborough College.) 6d.

FOREIGN.

Proceedings of the Imperial Academy. Vol. 5, No. 5, May. Pp. ix-xii+183-221. (Tokyo.)

Instituto Central Meteorológico y Geográfico de Chile. Publicación No. 38: Anuario Meteorológico de Chile de 1925. Pp. iv+163. (Santiago.)

Statens Meteorologisk-Hydrografiska Anstalt. Årsbok, 10, 1928. 2: Nederbörden i Sverige. Pp. 160. (Stockholm.) 5.00 kr.

Jahresbericht der Hamburger Sternwarte in Bergedorf für das Jahr 1928. Erstattet von Dr. R. Schorr. Pp. 26+4 Tafeln. (Bergedorf.)

The Rockefeller Foundation. A Review for 1928. By George E. Vincent. Pp. 54. (New York City.)

Department of the Interior: Bureau of Education. Bulletin, 1929, No. 4: Illiteracy in the Several Countries of the World. By James F. Abel and Norman J. Bond. Pp. vi+68. (Washington, D.C.: Government Printing Office.) 15 cents.

Agricultural Experiment Station: Michigan State College of Agriculture and Applied Science. Technical Bulletin No. 98: Further Studies on the Value of Non-virulent Living Culture Vaccination of Cattle against Brucella Abortus Infection. By I. Forest Huddleson. Pp. 11. Chart Section of Technical Bulletin No. 98: Herd Charts. By I. Forest Huddleson. Pp. 15. (East Lansing, Mich.)

Smithsonian Miscellaneous Collections. Vol. 73, No. 6: Opinions rendered by the International Commission on Zoological Nomenclature. Opinions 105 to 114. (Publication 3016.) Pp. 26. (Washington, D.C.: Smithsonian Institution.)

Cornell University: Agricultural Experiment Station. Bulletin 470: Pollination of Greenhouse Tomatoes. By H. W. Schneck. Pp. 60. Bulletin 471: An Economic Study of Retail Feed Stores in New York State. By E. A. Perregaux. Pp. 61. Bulletin 472: Sizes of Purchasing Centers of New York Farm Families. By Helen Canon. Pp. 15. Bulletin 473: The Cost of Handling Fluid Milk and Cream in Country Plants. By C. K. Tucker. Pp. 119. Bulletin 474: The Fumigation of Greenhouses to destroy Insect Pests. By Glenn W. Herrick and Grace H. Griswold. Pp. 20. Memoir 118: Wheat Prices and the World Wheat Market. By Vladimir Prokopovich Timoshenko. Pp. 100. Memoir 119: Prices of Fertilizer Materials, and Factors affecting the Fertilizer Tonnage. By Edmund Ellsworth Vial. Pp. 159. Memoir 120: A Physiological Study of Dormancy in Vetch Seed. By John Paul Jones. Pp. 50. Memoir 121: Variation and Correlation in the Appendages of the Honeybee. By E. F. Phillips. Pp. 52. Memoir 122: The Effect of Freezing on the Catalase Activity of Apple Fruits. By D. B. Carrick. Pp. 18. Memoir 123: Three Rust Diseases of the Apple. By H. E. Thomas and W. D. Mills. Pp. 21. (Ithaca, N.Y.)

Proceedings of the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge. Vol. 68, No. 1. Pp. 68. (Philadelphia, Pa.)

The List of the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge. Pp. 28. (Philadelphia, Pa.)

The Science Reports of the Tôhoku Imperial University, Sendai, Japan. Second Series (Geology), Vol. 13, No. 2. Pp. 17-33+ plates 9-10. (Tokyo and Sendai: Maruzen Co., Ltd.)

Proceedings of the United States National Museum. Vol. 74, Art. 11: Synopsis and Description of North American Tadpoles. By A. H. Wright. (No. 2756.) Pp. 70+9 plates. Vol. 75, Art. 1: Mammals from China in the Collections of the United States National Museum. By A. Brazier Howell. (No. 2772.) Pp. 82+10 plates. Vol. 75, Art. 24: Tertiary Fossil Plants from Colombia, South America. By Edward W. Berry. (No. 2795.) Pp. 12+5 plates. (Washington, D.C.: Government Printing Office.)

CATALOGUES.

Constable Announcements. Summer-Autumn 1929. Pp. 12. (London: Constable and Co., Ltd.)

The Cambridge Bulletin. No. 63, June. Pp. 24+4 plates. (Cambridge: At the University Press.)

Catalogue of Cine Cameras and Projectors. Pp. 16. (London: Sands Hunter and Co., Ltd.)

McGraw-Hill Books on Radio Engineering, Telegraphy and Telephony. (List 11, second edition.) Pp. 10. McGraw-Hill Books on Astronomy, Mathematics, Meteorology, Physics. (List 13, second edition.) Pp. 16. (London: McGraw-Hill Publishing Co., Ltd.)

Diary of Societies.

TUESDAY, JULY 23.

NEWCOMEN SOCIETY FOR THE STUDY OF THE HISTORY OF ENGINEERING AND TECHNOLOGY.—Summer Meeting at Dartmouth (jointly with the Devonshire Association) to Commemorate the Bicentenary of the Death of Thomas Newcomen (continued on July 24, 25, and 26).

THURSDAY, JULY 25.

ROYAL AERONAUTICAL SOCIETY (at Science Museum, South Kensington), at 9 P.M.—The Hon. W. P. MacCracken, jun.: Science in its Relation to Regulating and Promoting Civil Aviation (Wilbur Wright Memorial Lecture).

CONFERENCES.

JULY 23 TO 26.

BRITISH MEDICAL ASSOCIATION (at Manchester).

Tuesday, July 23, at 8 P.M.—Prof. A. H. Burgess: The Debt of Modern Surgery to the Ancillary Sciences (Presidential Address).

Wednesday, July 24, at 10 A.M.—Sections of Medicine, Surgery, Obstetrics and Gynaecology, Diseases of Children, Neurology and Psychological Medicine, Physiology and Biochemistry, Pathology and Bacteriology, Oto-Rhino-Laryngology, Ophthalmology, Radiology and Radio-Therapeutics, Venereal Diseases, Orthopaedics, Tuberculosis (also at 11.30 A.M.), Public Health (also at 11.30), Occupational Diseases.

Thursday, July 25, at 10 A.M.—Sections of Medicine, Surgery, Obstetrics and Gynaecology, Diseases of Children, Neurology and Psychological Medicine, Physiology and Biochemistry, Pathology and Bacteriology, Oto-Rhino-Laryngology (also at 11.30 A.M.), Ophthalmology, Anaesthetics, Dermatology, Radiology and Radio-Therapeutics, Venereal Diseases (also in afternoon), Orthopaedics, Tuberculosis (also at 11.30), Public Health, Occupational Diseases.

Friday, July 26, at 10 A.M.—Sections of Medicine, Surgery, Obstetrics and Gynaecology, Diseases of Children, Neurology and Psychological Medicine, Physiology and Biochemistry, Anaesthetics, Dermatology, History of Medicine, Medical Society.

At 7.30 P.M.—Prof. A. V. Hill: Experiments on Frogs and Men (Popular Lecture).

JULY 25 TO 31.

LEAGUE OF NATIONS UNION SUMMER SCHOOL (at New College, Oxford).

JULY 25 TO AUGUST 2.

FRENCH ASSOCIATION (at Havre).