

Official Publications Received.

BRITISH.

- Indian Physiologist. Edited by Prof. Nibaran Chandra Bhattacharyya. No. 1, January. Pp. 52. (Calcutta: Chuckervertty, Chatterjee and Co. Ltd.) 8 annas.
- Dominion of Canada. Report of the Department of Mines for the Fiscal Year ending March 31, 1927. (No. 2142.) Pp. v+59. (Ottawa: F. A. Acland.) 15 cents.
- Transactions of the Royal Society of Edinburgh. Vol. 55, Part 3, No. 25: The Anatomy of a Fœtal African Elephant, *Elephas africanus* (*Loxodonta africana*). Part 2: The Body Muscles. By Dr. Nellie B. Baies. Pp. 609-642+5 plates. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.) 6s.
- Association of Technical Institutions. Agenda Paper and Report of Council (1927) for the Annual General Meeting to be held on Friday, February 24th, and Saturday, February 25th, 1928, at the Stationers' Hall, London, E.C.4. Pp. 64. Paper read at the Annual General Meeting, February 24th and 25th, 1928, on Education in the Royal Air Force. The Story of an Educational Experiment. By Col. Ivor Curtis. Pp. 27. Draft of Paper to be read at the Annual General Meeting, February 24th and 25th, 1928, on Technical Education for the Boot and Shoe Industry. By F. W. Roberts. Pp. 19. Draft of Paper to be read at the Annual General Meeting, February 24th and 25th, 1928, on Part-time Courses in Commerce in Small Schools. By Principal S. Carter. Pp. 16. Draft of Paper to be read at the Annual General Meeting, February 24th and 25th, 1928, on the Co-operation of Education with Industry and Commerce. Commercial Education. By Principal G. H. Austin. Pp. 16. Draft of Paper to be read at the Annual General Meeting, February 24th and 25th, 1928, on the Training of the Architect. By T. P. Bennett. Pp. 16. (London.)
- University of Leeds. Twenty-third Report, 1926-27. Pp. 192. (Leeds.)
- Ministry of Health. Seventh Report of the Advisory Committee on the Welfare of the Blind to the Minister of Health, 1926-27. Pp. 53. (London: H.M. Stationery Office.) 6d. net.
- Dove Marine Laboratory, Cullercoats, Northumberland. Report for the Year ending June 30th, 1927. (New Series 16.) Edited by Prof. Alexander Meek. Pp. 57. (Cullercoats.) 5s.
- Pharmaceutical Society of Great Britain: Pharmacological Laboratories. Second Annual Report, 1927. Pp. 23. (London.)
- Government of the Gold Coast. Report on the Survey Department for the period April 1926-March 1927. Pp. 34+2 plates+4 maps. (Accra: Colonial Secretariat; London: The Crown Agents for the Colonies.) 2s.
- Transactions of the Optical Society. Vol. 28, 1926-27, No. 5. Pp. 225-304+xii. 10s. Vol. 29, 1927-28, No. 1. Pp. 48. 10s. (London.)
- Department of Agriculture, Ceylon. Bulletin No. 81: Notes on the Cultivation of Sisal, with special reference to Ceylon. By G. Harbord. Pp. 15+11 plates. 40 cents. Bulletin No. 82: Field Experimentation with Rubber (*Hevea brasiliensis*). By L. Lord and L. Abeyesundera. Pp. 21. 40 cents. (Peradeniya, Ceylon.)

FOREIGN.

- Department of the Interior: U.S. Geological Survey. Water-Supply Paper 596-F: Laboratory Tests on Physical Properties of Waterbearing Materials. By Norah Dowell Stearns. (Contributions to the Hydrology of the United States, 1927.) Pp. iv+121-176+plates 11-13. Bulletin 795-F: The Gilbert District, Nevada. By Henry G. Ferguson. (Contributions to Economic Geology, 1927, Part 1.) Pp. ii+125-145. 5 cents. Professional Paper 141: Upper Triassic Marine Invertebrate Faunas of North America. By James Perrin Smith. Pp. iv+262+121 plates. 1.50 dollars. (Washington, D.C.: Government Printing Office.)
- Department of the Interior: U.S. Geological Survey. Forty-eighth Annual Report of the Director of the Geological Survey to the Secretary of the Interior for the Fiscal Year ended June 30, 1927. Pp. ii+77. (Washington, D.C.: Government Printing Office.)
- Proceedings of the United States National Museum. Vol. 72, Art. 7: Redescription of Types of American Muscoid Flies in the Collection of the Vienna Natural History Museum, with Incidental Notes. By J. M. Aldrich. (No. 2703.) Pp. 35. (Washington, D.C.: Government Printing Office.)
- New York Academy of Sciences. Scientific Survey of Porto Rico and the Virgin Islands. Vol. 11, Part 1; Insects of Porto Rico and the Virgin Islands. Diptera or Two-winged Flies. By C. H. Curran. Pp. 118. (New York City.)
- The Science Reports of the Tôhoku Imperial University, Sendai, Japan. Second Series (Geology). Vol. 10, No. 4: On *Hipparion Richtofeni* Koken. By Hikoshichirô Matsumoto. Pp. 59-75+plates 29-32. (Tôkyô and Sendai: Maruzen Co., Ltd.)
- Report of the Aeronautical Research Institute, Tôkyô Imperial University. No. 28: An Electrical Indicator for High-speed Internal-Combustion Engines. By Jûichi Obata and Yaei Yosida. Pp. 397-408+plates 21-25. 0.50 yen. No. 29: On Preparation of Lead Tetraethyl. By Yoshio Tanaka and Tsutomu Kuwata. Pp. 409-420. 0.22 yen. No. 30: Theoretische Untersuchungen über die Querruderwirkung beim Tragflügel. Von C. Wiesselsberger. Pp. 421-447. 0.55 yen. (Tôkyô: Kôseikai Publishing House.)
- Proceedings of the American Academy of Arts and Sciences. Vol. 62, No. 7: The Viscosity of Mercury under Pressure. By P. W. Bridgman. Pp. 187-206. 50 cents. Vol. 62, No. 8: The Compressibility and Pressure Coefficient of Resistance of Ten Elements. By P. W. Bridgman. Pp. 207-226. 50 cents. (Boston, Mass.)
- The Carnegie Foundation for the Advancement of Teaching. Twenty-second Annual Report of the President and of the Treasurer. Pp. vi+168. (New York City.)
- University of California Publications in American Archaeology and Ethnology. Vol. 23, No. 5: Achromawi Geography. By Fred B. Kniffen. Pp. 297-332+plates 55-59+2 maps. 45 cents. Vol. 23, No. 6: Pitch Accent in Hupa. By Pliny Earle Goddard. Pp. 333-338. 25 cents. (Berkeley, Cal.: University of California Press.)

Carnegie Institution of Washington. Annual Report of the Director of the Department of Terrestrial Magnetism. (Reprinted from Year Book No. 26 for the Year 1926-27.) Pp. 165-216. (Washington, D.C.: Smithsonian Institution.)

Agricultural Experiment Station, Michigan State College of Agriculture and Applied Science. Technical Bulletin No. 85: Studies in the Etiology of Roup and Allied Diseases of Fowls. By Edwin P. Johnson. Pp. 20. Circular Bulletin No. 107: The Mexican Bean Beetle. By R. H. Pettit. Pp. 8. (East Lansing, Mich.)

CATALOGUES.

- Australasia: Books, Maps, Original Water Colour Drawings, Oil Paintings and Coloured Plates relating to Australia, Tasmania, New Zealand and the Islands of the Pacific Ocean. (Catalogue No. 505.) Pp. 92. (London: Francis Edwards, Ltd.)
- Wild-Barfield Electro-Magnetic Furnaces for the Automatic Hardening of Steel. (Section A.) Pp. 20. (London: Automatic and Electric Furnaces, Ltd.)
- Meteorological Instruments. (Catalogue No. 548.) Pp. 84. (London: C. F. Casella and Co., Ltd.)

Diary of Societies.

FRIDAY, MARCH 9.

- ROYAL ASTRONOMICAL SOCIETY, at 5.—R. W. Gurney: Particles of High Velocity in the Chromosphere.—Dr. H. Jeffreys: Possible Tidal Effects on Accurate Time-keeping.—M. C. Johnson: Absorption by Nebulosity and the Temperature and Luminosity Sequences of Novæ.—Dr. H. Spencer Jones: The System of Procyon.
- PHYSICAL SOCIETY (at Imperial College of Science), at 5.—Sir J. J. Thomson: Electrodeless Discharge through Gases (Guthrie Lecture).
- INSTITUTE OF METALS (Sheffield Local Section) (in Non-Ferrous Section, Applied Science Department, Sheffield University), at 7.30.—W. R. Barclay: Special Alloys in relation to the Corrosion Problem.

SATURDAY, MARCH 10.

- ROYAL INSTITUTION OF GREAT BRITAIN, at 8.—Sir Ernest Rutherford: The Transformation of Matter (I.).

MONDAY, MARCH 12.

- ROYAL GEOGRAPHICAL SOCIETY (at Louth Lodge), at 5.—T. Hay: Some Topography of the English Lakes.
- ROYAL SOCIETY OF MEDICINE (War Section), at 5.—Lieut.-Col. E. Cowell: The Pathology and Treatment of Traumatic Wound Shock.
- ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Dr. E. Schrödinger: Wave Mechanics (II.).
- BRITISH PSYCHOLOGICAL SOCIETY (Education Section) (at London Day Training College), at 6.—R. R. Dobson: Report of an Enquiry into the Attitude of Local Authorities towards Mental Tests.
- INSTITUTE OF AUTOMOBILE ENGINEERS (Birmingham Centre) (at Queen's Hotel, Birmingham), at 7.—G. L. Ensor: Notes on the Single Sleeve-Valve Principle.
- INSTITUTE OF ELECTRICAL ENGINEERS (at Armstrong College, Newcastle-upon-Tyne), at 7.—T. N. Riley and T. R. Scott: Insulating Oils for High-Voltage Cables.
- CERAMIC SOCIETY (at North Staffordshire Technical College, Stoke-on-Trent), at 7.30.—J. Williamson: A New Type of Tunnel Kiln Suitable for the Firing of Pottery.
- INSTITUTE OF METALS (Scottish Local Section) (at 39 Elmbank Crescent, Glasgow), at 7.30.—Annual General Meeting.
- INSTITUTE OF CHEMISTRY (Leeds Area Section) (at Leeds).—Dr. H. S. Houldsworth: The Expert Witness and the Law of Evidence.
- INSTITUTE OF ELECTRICAL ENGINEERS (Western Centre) (at Swansea).

TUESDAY, MARCH 13.

- ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Dr. I. Bennett: Some Problems of Nephritis (Goulstonian Lectures) (I.).
- ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. J. S. Huxley: The Behaviour of Animals (IV.).
- INSTITUTE OF PETROLEUM TECHNOLOGISTS (at Royal Society of Arts), at 5.30.—Lieut.-Col. S. J. M. Auld: The Natural Gas of South Persia, Process Development and Exploitation.
- ILLUMINATING ENGINEERING SOCIETY (at Holophane, Ltd., Elverton Street, S.W.1), at 6.30.—Dr. S. English: The Manufacture and Properties of Glass and their Application in Illuminating Engineering.
- INSTITUTE OF MARINE ENGINEERS, at 6.30.—G. R. Hutchinson: Recent Developments in Propelling Equipment Practice of Reciprocating Engine Steamers.
- ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—Annual General Meeting.
- INSTITUTE OF BRITISH FOUNDRYMEN (Lancashire Branch, Burnley Section) (at Burnley Municipal College), at 7.15.—W. H. Meadowcroft: Foundry Conditions.
- INSTITUTE OF ELECTRICAL ENGINEERS (Scottish Centre) (at North British Station Hotel, Edinburgh), at 7.30.—F. H. Rosencrants: Practice and Progress in Combustion of Coal as applied to Steam Generation.
- QUEKETT MICROSCOPICAL CLUB, at 7.30.—T. H. Savory: Spiders and their Environment.
- PHARMACEUTICAL SOCIETY, at 8.—Dr. H. H. Dale: Some Reactions of Pharmacology on Pharmacy.
- ROYAL SOCIETY OF MEDICINE (Tropical Diseases, Psychiatry, Neurology, and Balneology Sections), at 8.30.—Special Discussion on Neuroses in the Tropics.

WEDNESDAY, MARCH 14.

- ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Dr. E. Schrödinger: Wave Mechanics (IV.).