

## Official Publications Received.

## BRITISH.

- Reports of the Imperial Economic Committee. Fourteenth Report: A Survey of the Trade in Rubber Manufactured Goods. Pp. 119. (London: H.M. Stationery Office.) 6d. net.
- The Journal of the Royal Anthropological Institute of Great Britain and Ireland. Vol. 59, July to December 1929. Pp. xii+273-531+17+48. (London.) 15s. net.
- Journal of the Indian Institute of Science. Vol. 13A, Part 2: Formation of Heterocyclic Compounds from Ethyl Carbethoxythiocarbamate. By Praphulla Chandra Guha and Shanker Rao A. Salotora. Pp. 11-20. 10 annas. Vol. 13A, Part 3: Petrol-Water Emulsions. By C. Varadhan and H. E. Watson. Pp. 21-30. 12 annas. Vol. 13A, Part 4: i. Studies on Dextrins, Part 1: Action of Amylase from Cholam (*Sorghum vulgare*) on Potato Starch, by Vinayak Narayan Patwardhan; ii. Amylase from Ragi (*Eleusine coracana*) by V. N. Patwardhan and Nugehalli Narayana. Pp. 31-41. 12 annas. (Bangalore.)
- Southern Rhodesia. Report of the Director, Geological Survey, for the Year 1929. Pp. 10. (Salisbury, S.R.)
- The Proceedings of the Physical Society. Vol. 42, Part 3, No. 233, April 15. Pp. iv+153-292. (London.) 7s. net.
- Canada. Department of Mines: Mines Branch. Mica. By H. S. Spence. (No. 701.) Pp. ix+142+21 plates. (Ottawa: F. A. Acland.) 30 cents.
- Air Ministry: Aeronautical Research Committee. Reports and Memoranda. No. 1268 (Ae. 414): Experiments relating to the Flow in the Boundary Layer of an Airship Model. By L. F. G. Simmons. (T. 2768.) Pp. 7+6 plates. (London: H.M. Stationery Office.) 6d. net.
- Journal of the Royal Microscopical Society. Series 3, Vol. 50, Part 1, March. Pp. xvi+160. (London.) 10s. net.
- Reports of the Progress of Applied Chemistry. Issued by the Society of Chemical Industry. Vol. 14, 1929. Pp. 775. (London.) 7s. 6d. to Members, 12s. 6d. to non-Members.
- Memoirs of the Geological Survey of India. Vol. 54: The Geology of North Singhbhum, including parts of Ranchi and Manbhum Districts. By Dr. J. A. Dunn. Pp. ii+iii+166+xxvii. (Calcutta: Government of India Central Publication Branch.) 12.4 rupees; 20s.
- Report of the Kodaikanal Observatory for the Year 1929. Pp. 4. (Calcutta: Government of India Central Publication Branch.) 6 annas.
- The Journal of the Institution of Electrical Engineers. Vol. 68, No. 400, April. Pp. 413-524+xxviii. (London: E. and F. N. Spon, Ltd.) 10s. 6d.
- Imperial Institute. Annual Report 1929 by the Director, Lieut.-Gen. Sir William Furse, to the Board of Directors. (Meeting 9th April 1930.) Pp. 56+4 plates. (London.)
- Department of Scientific and Industrial Research. Index to the Literature of Food Investigation. Vol. 1, No. 2, September 1929. Compiled by Agnes Elisabeth Glennie. Pp. iv+154. (London: H.M. Stationery Office.) 2s. net.
- The Scientific Proceedings of the Royal Dublin Society. Vol. 19 (N.S.), No. 37: The Application of Gamma Radiation to Deep-seated Tumours. By Dr. J. Joly. Pp. 447-450. 6d. Vol. 19 (N.S.), No. 39: Some Geochemical Applications of Measurements of Hydrogen Ion Concentration. By Dr. W. R. G. Atkins. Pp. 455-460. 6d. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.)
- Legislative Assembly, New South Wales. Report of the Director-General of Public Health, New South Wales, for the Year 1928, presented by the Minister for Health. Pp. v+126. (Sydney: Alfred James Kent.)
- New South Wales. Department of Mines: Geological Survey. Mineral Researches No. 35: The Yerranderie Silver Field. By L. F. Harper. Pp. 63+26 plates. (Sydney: Alfred James Kent.)
- Collected Papers from the Science Laboratories of the University of Melbourne, 1910-1928. Vol. 3. 87 papers. Vol. 4. 47 papers. Vol. 5. 42 papers. Vol. 6. 62 papers. (Melbourne.)
- Department of Scientific and Industrial Research. Building Science Abstracts. Vol. 3 (New Series), No. 3, March. Abstracts Nos. 458-670. Pp. 73-112. (London: H.M. Stationery Office.) 9d. net.
- Department of Scientific and Industrial Research. Second Report of the Fabrics Co-ordination Research Committee. Pp. viii+180. (London: H.M. Stationery Office.) 5s. net.

## FOREIGN.

- Publications of the United States Naval Observatory. Second Series, Vol. 12. Pp. ix+592+15 plates. (Washington, D.C.: Government Printing Office.)
- Bergens Museum. Årsberetning, 1928-1929. Pp. 114. Bergens Museums Årbok 1929. Naturvidenskapelig rekke. Heft 2. Pp. 10+22+6+4+8+35+7+46+92+4. Bergens Museums Årbok 1930. Naturvidenskapelig rekke. Heft 1. Pp. 179. (Bergen: A.-S. John Griegs Boktrykkeri.)
- Conseil Permanent International pour l'Exploration de la Mer. Journal du Conseil. Vol. 5, No. 1, Avril. Pp. 137. (Copenhague: Andr. Fred. Høst et fils.)
- Bulletin of the American Museum of Natural History. Vol. 61, Art. 1: Pug-Headedness in the Striped Sea Bass, *Roccus lineatus*, and in other related Fishes. By E. W. Guéguen. Pp. 19+3 plates. (New York.)
- The Observatory of Zi-ka-wei: Fifty Years of Scientific Work. By the Rev. P. Lejay. Pp. 86. (Zi-ka-wei.)
- Japanese Journal of Physics: Transactions and Abstracts. Vol. 5, No. 3. Pp. 103-137+25-52+ii. Vol. 5, No. 4. Pp. 139-160+53-63+vi. (Tokyo: National Research Council of Japan.)
- Agricultural Experiment Station: Michigan State College of Agriculture and Applied Science. Special Bulletin No. 194: The Use of Peat in the Greenhouse. By Alex Laurie. Pp. 23. Circular Bulletin No. 129: Results of a Long Time Mineral Feeding Experiment with Dairy Cattle. By C. F. Huffman and O. E. Reed. Pp. 11. (East Lansing, Mich.)
- Smithsonian Institution: United States National Museum. Contributions from the United States National Herbarium. Vol. 26, Part 5: Notes on certain Type Specimens of American Asteraceae in European Herbaria. By S. F. Blake. Pp. iii+227-263+v-ix. (Washington, D.C.: Government Printing Office.) 10 cents.

No. 3157, Vol. 125]

Proceedings of the United States National Museum. Vol. 76, Art. 7: *Briarosaccus callosus*, a new Genus and new Species of a Rhizocephalan Parasite of *Lithodes agassizii* Smith. By H. Boschma. (No. 2804.) Pp. 8. Vol. 77, Art. 7: The Caudal Molt of certain Coraciiform, Coliiform and Piciform Birds. By Herbert Friedmann. (No. 2830.) Pp. 6. (Washington, D.C.: Government Printing Office.)

Conseil Permanent International pour l'Exploration de la Mer. Faune ichthyologique de l'Atlantique nord. Publiée sous la direction de Prof. Joubin. Pp. 46 (24 planches). (Copenhague: Andr. Fred. Høst et fils.) 4 kr.

Proceedings of the Imperial Academy. Vol. 6, No. 1, January. Pp. iii+25. Vol. 6, No. 2, February. Pp. v-viii+27-92. (Tokyo.)

Report of the Aeronautical Research Institute, Tōkyō Imperial University. No. 58: On the Resistance experienced by a Cylinder moving in a Channel of Finite Breadth. By Susumu Tomotika. Pp. 101-142. (Tōkyō: Koseikai Publishing House.) 0.44 yen.

Académie Tchèque des Sciences (Česká Akademie Věd a Umění). Bulletin International. Résumés des travaux présentés. Classe des sciences mathématiques, naturelles et de la médecine. Année 28 (1927). Pp. vi+450. (Prague.)

United States Department of Agriculture. Technical Bulletin No. 178: Properties of Soils which influence Soil Erosion. By H. E. Middleton. Pp. 16. (Washington, D.C.: Government Printing Office.) 5 cents.

American Geographical Society. Special Publication No. 11: Brief History of Polar Exploration since the Introduction of Flying. By W. L. G. Joerg. To accompany a Physical Map of the Arctic and a Bathymetric Map of the Antarctic. Pp. v+50+2 maps. (New York.) 5 dollars.

The Carnegie Foundation for the Advancement of Teaching. Bulletin No. 25: The Social Philosophy of Pensions, with a Review of existing Pension Systems for Professional Groups. By Henry S. Pritchett. Pp. iv+85. (New York City.) Free.

Collection des travaux chimiques de Tchecoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 2, No. 4, Avril. Pp. 161-208. (Prague: Regis Societas Scientiarum Bohemica.)

Naturwissenschaftliche Untersuchungen des Sarekgebirges in Schwedisch-Lappland. Band 2: Meteorologie und Geophysik. Lief. 2: Untersuchungen über die Wolkenbildung auf dem Pärtetjälkko im August 1928 nebst einer erweiterten Untersuchung der Tropfengruppen. Von Hilding Köhler. Pp. 77-128. (Stockholm: C. E. Fritze; Berlin: R. Friedländer und Sohn.)

Journal of the Faculty of Agriculture, Hokkaido Imperial University, Sapporo, Japan. Vol. 23, Part 1: Ein Beitrag zur Kenntnis der Gattung *Rhizopus*, I. Von Yoshihiko Yamamoto. Pp. 101+4 Tafeln. (Tokyo: Maruzen Co., Ltd.)

Division of Fish and Game of California. Fish Bulletin No. 20: The Commercial Fish Catch of California for the Year 1928. By the Staff of the Bureau of Commercial Fisheries. Pp. 110. (Sacramento: California State Printing Office.)

United States Department of the Interior: Office of Education. Bulletin, 1929, No. 31: Legal Education 1925-1928. By Alfred Z. Reed. Pp. 22. (Washington, D.C.: Government Printing Office.) 5 cents.

Proceedings of the California Academy of Science, Fourth Series. Vol. 18, No. 17 and No. 18: Report of the President of the Academy for the Year 1929, by C. E. Grunsky; Report of the Director of the Museum and of the Aquarium for the Year 1929, by Barton Warren Evermann. Pp. 531-586. (San Francisco.)

Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 82. Genotypes of the Scrophulariaceae in the first edition of Linné's "Species Plantarum". By Francis W. Pennell. Pp. 9-26. The Freshwater Fishes obtained by the Gray African Expedition, 1929; with Notes on other Species in the Academy Collection. By Henry W. Fowler. Pp. 27-33. The East African Forms of the Bare-Throated Francolin, *Pternistis cranchii*. By W. Wedgwood Bowen. Pp. 85-87. (Philadelphia.)

Smithsonian Miscellaneous Collections. Vol. 82, No. 6: The Past Climate of the North Polar Region. By Edward W. Berry. (Publication 3061.) Pp. 29. (Washington, D.C.: Smithsonian Institution.)

## CATALOGUE.

The Nickel Bulletin. Vol. 3, No. 4, April. Pp. 105-136. (London: The Mond Nickel Co., Ltd.)

## Diary of Societies.

## FRIDAY, MAY 2.

- ROYAL SOCIETY OF MEDICINE (Otolaryngology Section) (Annual General Meeting), at 10.30 A.M.—Papers by Prof. M. Sourdille and G. J. Jenkins.
- ROYAL ASTRONOMICAL SOCIETY (Geophysical Discussion), at 4.30.—The Earth's Bodily Tide. Dr. L. Rosenhead, Dr. H. Jeffreys, and J. C. Dobbie. Chairman, Prof. L. N. G. Filon.
- ROYAL SOCIETY OF MEDICINE (Laryngology Section), at 5.—Annual General Meeting.
- ROYAL SANITARY INSTITUTE (at Town Hall, Tunbridge Wells), at 5.30.—Dr. F. C. Linton and others: Discussion on The Maternity Home as a Health Asset.—H. T. Taylor and others: Discussion on Can the Slum be Abolished?
- INSTITUTION OF ELECTRICAL ENGINEERS (Meter and Instrument Section), at 7.—C. W. Marshall: The Metering Arrangements for the 'Grid' Transmission System in Great Britain (Lecture).
- INSTITUTION OF MECHANICAL ENGINEERS (Informal Meeting), at 7.—Major A. W. Farrer: Empire Free Trade and the Engineer.
- ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Pictorial Group), at 7.—Informal Meeting.
- GEOLOGISTS' ASSOCIATION (at University College), at 7.30.—A. A. Miller and J. S. Turner: The Lower Carboniferous Succession along the Dent Fault and the Yoredale Beds of the Shap District.—R. G. S. Hudson: The Carboniferous of the Craven Reef Belt: The Namurian Unconformity at Scafeber, Nr. Settle.
- FARADAY SOCIETY (at Chemical Society), at 8.—Prof. G. Wiegner: On Coagulation (Lecture).