

Official Publications Received.

BRITISH.

Transactions of the Royal Society of Edinburgh. Vol. 57, Part 1, No. 2: A Contribution to the Molluscan Flora of the Laki and Basal Kihthar Groups of the Indian Eocene. By L. R. Cox. Pp. 25-92+4 plates. (Edinburgh: Robert Grant and Son; London: Williams and Norgate, Ltd.) 10s

Jamaica. Annual Report of the Department of Agriculture for the Year ended 31st December 1930. Pp. 35+3 plates. (Kingston: Government Printing Office.)

India: Meteorological Department. Scientific Notes, Vol. 3, No. 22: The Structure and Movement of a Storm in the Bay of Bengal during the period 13th to 19th November 1928. By Dr. K. R. Ramanathan. Pp. ii+29-33+9 plates. 2-4 rupees; 4s. 3d. Scientific Notes, Vol. 3, No. 23: Historical Note on the Catch of Raingauges. By H. R. Puri. Pp. ii+37-59+6 plates. 1 rupee; 1s. 9d. (Calcutta: Government of India Central Publication Branch.)

Board of Education. Educational Pamphlets No. 85 (Industry Series No. 10): Report by H.M. Inspectors on the Provision of Instruction in Applied Chemistry in Technical Schools and Colleges in England and Wales. Pp. 55. (London: H.M. Stationery Office.) 1s. net.

Rothamsted Experimental Station: Lawes Agricultural Trust. Report for 1930. Pp. 172. (Harpenden.) 2s. 6d.

Imperial Agricultural Research Conference, 1927. Abstracts of Papers on Agricultural Research in the United Kingdom, published during the Year October 1929 to September 1930. Pp. 166. (London: H.M. Stationery Office.) 1s.

Union of South Africa: Department of Public Health. Report on Investigation into Malaria in the Union of South Africa, 1930-31. By Prof. N. H. Swellengrebel. Pp. 45. (Pretoria: Government Printer.)

Proceedings of the Royal Irish Academy. Vol. 40, Section B, No. 4: A Tentative Reconstruction of the Successive Margins of the Quaternary Ice-Sheets in the Region of the North Sea. By Prof. J. Kaye Charlesworth. Pp. 67-83. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 6d.

The National Physical Laboratory. Report on the Physics Department for the Year 1930. Pp. 62-99. (London: H.M. Stationery Office.) 2s. net.

The Cordwainers Technical College (Incorporated). Prospectus of Classes in Boot and Shoe Manufacture and Making, and Leather Goods Manufacture. Day and Evening Classes, Session 1931-32. Pp. 43. (London.)

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1379 (Ae. 504—T. 3010): Biplane Fins on a Model of R.101. By Dr. R. Jones and A. H. Bell. Pp. 13+3 plates. 9d. net. No. 1391 (Ae. 512—S. 73): Measurements of Lift and Drag of Southampton Seaplane. By A. S. Crouch. Pp. 3+3 plates. 6d. net. (London: H.M. Stationery Office.)

Department of Scientific and Industrial Research. Building Science Abstracts. Vol. 4 (New Series), No. 7, July. Abstracts Nos. 1141-1338. Pp. 223-258. (London: H.M. Stationery Office.) 9d. net.

Apia Observatory, Apia, Western Samoa. Report for 1928 and 1929. Pp. 176. (Wellington, N.Z.: W. A. G. Skinner.)

FOREIGN.

Bureau of Entomology. Report of the Entomologist. Pp. 34. (Washington, D.C.: Government Printing Office.)

World Social Economic Congress, under the Auspices of the International Industrial Relations Association. Principles and Practicability of Economic Planning. Section 1: Principles and Practice of Scientific Management. By Dr. H. S. Person. Pp. 64. Section 2: Europäische Aspekte der Rationalisierungsbewegung-Bedeutung des Scientific Management für die Sozialökonomische Planung. Von Hugo von Haan. Pp. 37. Section 3: The Problem of Economic Planning. By Dr. Lewis L. Lorwin. Pp. 43. (The Hague: International Industrial Relations Association.)

Cornell University Agricultural Experiment Station. Bulletin 519: Studies of the Genus *Delphinium*. By Earle I. Wilde. Pp. 107. Bulletin 520: Fertilizer Tests of several Soil Types. By T. L. Lyon. Pp. 19. Bulletin 521: Cultivation Experiments with certain Vegetable Crops on Long Island. By H. C. Thompson, P. H. Wessels and H. S. Mills. Pp. 14. Bulletin 523: The Sociology of a Village and the Surrounding Territory. By Bruce L. Melvin. Pp. 138. Bulletin 525: A Survey of some Public Produce Markets in Up-State New York. By F. P. Weaver. Pp. 149. (Ithaca, N.Y.)

Bernice P. Bishop Museum. Bulletin 76: Social Organization of Manna. By Margaret Mead. Pp. iv+218. Bulletin 79: History and Culture in the Society Islands. By E. S. Craighill Handy. Pp. iii+110+6 plates. Bulletin 80: Archaeology of Kauai. By Wendell Clark Bennett. Pp. iv+156+15 plates. Bulletin 81: Vascular Plants of the Leeward Islands, Hawaii. By Erling Christophersen and Edward L. Caum. (Tanager Expedition, Publication No. 7.) Pp. 41+16 plates. Bulletin 82: Report of the Director for 1930. By Herbert E. Gregory. Pp. 36. Occasional Papers, Vol. 9, No. 12: Notes on Joinvillea. By Erling Christophersen. Pp. 7. Occasional Papers, Vol. 9, No. 13: Vascular Plants of Johnston and Wake Islands. By Erling Christophersen. (Tanager Expedition, Publication No. 6.) Pp. 20. (Honolulu.)

State of Connecticut: State Geological and Natural History Survey. Bulletin No. 50: Fourteenth Biennial Report of the Commissioners of the State Geological and Natural History Survey, 1929-1930. Pp. 26. 10 cents. Bulletin No. 49: Public and Semi-Public Lands of Connecticut. By Philip Laurance Buttrick. Pp. 151. 1 dollar. (Hartford, Conn.)

Division of Fish and Game of California: Bureau of Commercial Fisheries. Fish Bulletin No. 28: Handbook of Common Commercial and Game Fishes of California. By Lionel A. Walford. Pp. iii+183. Fish Bulletin No. 29: The Striped Bass of California (*Roccus lineatus*). By Eugene G. Scofield. Pp. 84. Fish Bulletin No. 30: The Commercial Fish Catch of California for the Year 1929. By the Staff of the Bureau of Commercial Fisheries. Pp. 135. Fish Bulletin No. 31: Studies of the Length Frequencies of the California Sardine (*Sardinia caerulea*). By the California State Fisheries Laboratory. Pp. 55. (Sacramento: Calif. State Printing Office.)

Proceedings of the American Philosophical Society. Vol. 70, No. 3. Pp. 215-316. (Philadelphia.)

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The Science Reports of the Tohoku Imperial University, Sendai, Japan. Second Series (Geology), Vol. 14, No. 2A. Pp. 97-133+plates 29-39. (Tokyo and Sendai: Maruzen Co., Ltd.)

CATALOGUES.

'Caprokol' Brand of Hexylresorcinol, the Urinary Antiseptic for Oral Administration. Pp. 8. Acriflavine "B.D." Pp. 8. (London: The British Drug Houses, Ltd.)

Books on all Technical and Applied Science. Pp. 104. (London: W. and G. Foyle, Ltd.)

Diary of Societies.

FRIDAY, SEPTEMBER 25.

INSTITUTE OF BREWING (at Queen's Hotel, Birmingham).—Dr. F. Windisch: New Results Concerning the Metabolism of Yeasts in their Relation to the Fermentation of Wort and Beer.

THURSDAY, OCTOBER 1.

INSTITUTION OF AUTOMOBILE ENGINEERS (at Royal Society of Arts), at 8.—W. A. Tookey: The Internal Combustion Engine and its Performances (Presidential Address).

FRIDAY, OCTOBER 2.

INSTITUTION OF CHEMICAL ENGINEERS (at Chemical Society), at 6.—N. E. Rambush and F. F. Rixon: The Gas Generator as a Direct Producer of Metallurgical Products.

SATURDAY, OCTOBER 3.

GILBERT WHITE FELLOWSHIP (at 6 Queen Square, W.C.1), at 3.—Dr. P. Flemming: Harley Street, Historical and Topographical Notes (Lecture).

CENTENARY.

OCTOBER 1 AND 2.

JAMES CLERK MAXWELL CENTENARY CELEBRATION (at Cambridge).

Thursday, Oct. 1.—Sir J. J. Thomson: Memorial Lecture.

Friday, Oct. 2 (morning).—Addresses by Prof. Max Planck, Sir Joseph Larmor, and Prof. Niels Bohr.
(Afternoon).—Addresses by Dr. William Garnett, Sir Ambrose Fleming, and Sir Oliver Lodge.

CONGRESSES.

SEPTEMBER 20 TO 27.

INSTITUT INTERNATIONAL D'ANTHROPOLOGIE (at Paris).

SEPTEMBER 23 TO 25.

INSTITUTION OF MINING ENGINEERS (at Manchester).

SEPTEMBER 23 TO 30.

BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (Centenary Meeting). (For Programme see NATURE, Sept. 19.)

SEPTEMBER 24 TO 27.

SWISS SOCIETY OF NATURAL SCIENCES (at La Chaux-de-Fonds and Le Locle).

SEPTEMBER 29 TO OCTOBER 2.

IRON AND STEEL INSTITUTE (at Royal Metal Exchange, Swansea).

Tuesday, Sept. 29.—Prof. C. A. Edwards and A. Preece: The Constitution of the Iron-Tin Alloys.

C. O. Bannister and W. D. Jones: The Diffusion of Tin into Iron with special reference to the Formation of Columnar Crystals.

G. Burns: The Effect of Molybdenum on Medium-Carbon Steels containing 1 to 2.5 per cent of Manganese.

R. Harrison: The Influence of Silicon on Nickel Steel.

Wednesday, Sept. 30.—J. C. Jones: Mottled Tinplates.

The Equilibrium of Certain Non-Metallic Systems. Part I. By J. H. Andrew, W. R. Maddocks, and D. Howat. Part II. By J. H. Andrew, W. R. Maddocks, and E. A. Fowler.

F. Adecock: Alloys of Iron Research. Part X. The Chromium-Iron Constitutional Diagram.

G. A. Hankins and M. L. Becker: The Effect of Surface Conditions Produced by Heat Treatment on the Fatigue Resistance of Spring Steels.

B. Matuschka: The Solidification and Crystallisation of Steel Ingots: The Influence of the Casting Temperature and the Undercooling Capacity of the Steel.

Thursday, Oct. 1.—O. Cromberg: Production Economy in Iron and Steel Works. Part II. Costs of Production.

W. H. Cunningham and J. S. Ashbury: The Surface Hardening by Nitrogen of Special Aluminium-Chromium-Molybdenum Steels on a Production Basis.

N. T. Belaiev: The Structure of Nodular Troostite.

Prof. F. C. Thompson and R. Willows: A Critical Study of the Origin of the Banded Structure of a Hot-Worked Hypo-Eutectoid Steel.

OCTOBER 5 TO 10.

CONGRESS ON TUBERCULOSIS (at Davos).—Principal Subjects for Discussion:—Development and Course of Tuberculosis of the Lungs; Extra-Pulmonary Tuberculosis; Collapse Therapy.