

Official Publications Received.

Memoirs of the Bernice Pauahi Bishop Museum. Vol. 8, No. 5: The Material Culture of the Marquesas Islands. By Ralph Lin'ou. (Bayard Dominick Expedition: Publication No. 5.) Pp. iv+263-471+plates 40-84. Vol. 9, No. 1: The Morioris of Chatham Islands. By H. D. Skinner. (Bayard Dominick Expedition: Publication No. 4.) Pp. 140+35 plates. Vol. 9, No. 2: Marquesan Somatology, with Comparative Notes on Samoa and Tonga. By Louis R. Sullivan. (Bayard Dominick Expedition: Publication No. 6.) Pp. 141-249+plates 36-41. (Honolulu, Hawaii: Bishop Museum Press.)

Madras Fisheries Department. Administration Report for the Year 1922-23. By James Hornell. Pp. 58. (Madras: Government Press.) 10 annas.

United States Department of Agriculture. Department Bulletin No. 1201: Plants Tested for or Reported to possess Insecticidal Properties. By N. E. McIndoo and A. F. Sievers. Pp. 62. 10 cents. No. 1204: Dusting Cotton from Airplanes. By B. R. Coad, E. Johnson, and G. L. McNeil. Pp. 40. (Washington: Government Printing Office.)

Transactions and Proceedings of the New Zealand Institute. Vol. 54 (new issue), December 14th, 1923. Pp. xxxi+920. (Wellington, N.Z.: W. A. G. Skinner; London: Wheldon and Wesley, Ltd.)

The Royal Botanic Gardens, Kew. Illustrated Guide. Pp. 64. (Kew: Royal Botanic Gardens; London: H. M. Stationery Office.) 1s. net.

State of Illinois. Department of Registration and Education: Division of the Natural History Survey. Bulletin, Vol. 15, Article 1: The Apple Flea-weevil, *Orchestes pallicornis* Say (Order Coleoptera; Family Curculionidae). By W. P. Flint, S. C. Chandler, and Pressley A. Glenn. Pp. 37. (Urbana, Ill.)

Bulletin of the American Museum of Natural History. Vol. 47, Art. 3: Carnivora collected by the American Museum Congo Expedition. By J. A. Allen. Pp. 73-281+plates 6-78. (New York City.)

Smithsonian Miscellaneous Collections. Vol. 73, No. 2: Opinions rendered by the International Commission on Zoological Nomenclature; Opinions 78 to 81. (Publication 2747.) Pp. 32. Vol. 76, No. 8: Additional Designs on Prehistoric Mimbres Pottery. By J. Walker Fewkes. (Publication 2748.) Pp. 46. Vol. 76, No. 9: The Brightness of Lunar Eclipses, 1860-1922. By Willard J. Fisher. (Publication 2751.) Pp. 61. (Washington: Government Printing Office.)

Smithsonian Institution: Bureau of American Ethnology. Bulletin 80: Mandan and Hidatsa Music. By Frances Densmore. Pp. xx+192+19 plates. 60 cents. Bulletin 81: Excavations in the Chama Valley, New Mexico. By J. A. Jancon. Pp. ix+80+65 plates. 75 cents. (Washington: Government Printing Office.)

Department of the Interior: Bureau of Education. Bulletin, 1923, No. 42: Educational Research. By Bird T. Baldwin, assisted by Madorah Smith. Pp. iii+76. 10 cents. Bulletin, 1923, No. 51: Schools and Classes for the Blind, 1921-22. Prepared in the Division of Statistics, Bureau of Education, under the Supervision of Frank M. Phillips. Pp. 12. 5 cents. (Washington: Government Printing Office.)

Department of the Interior: Bureau of Mines. Bulletin 212: Analytical Methods for certain Metals, including Cerium, Thorium, Molybdenum, Tungsten, Radium, Uranium, Vanadium, Titanium, and Zirconium. By R. B. Moore, and S. C. Lind, J. W. Marden, J. P. Bonardi, C. W. Davis, and J. E. Conley. Pp. xviii+325. (Washington: Government Printing Office.) 40 cents.

Carnegie Institution of Washington. Annual Report of the Director of the Department of Terrestrial Magnetism. (Extracted from Year Book No. 22 for the Year 1923.) Pp. 229-266. (Washington.)

Canada. Department of Mines: Mines Branch. Summary Report on Mines Branch Investigations during the Calendar Year ending December 31, 1922. Pp. 273. (Ottawa: F. A. Acland.)

Board of Trade. Catalogue of the British Industries Fair, 1924, The White City, Shepherd's Bush, London, W.12, April 28-May 9. Organised by the Department of Overseas Trade. Pp. xxviii+164+102. (London: Department of Overseas Trade, 35 Old Queen Street, S.W.1.) 1s.

Diary of Societies.

MONDAY, MAY 5.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.—General Meeting.
ROYAL COLLEGE OF PHYSICIANS, at 5.—Prof. K. F. Wenckebach: Angina Pectoris and the Possibilities of its Surgical Relief.
SOCIETY OF ENGINEERS, Inc. (at Geological Society), at 5.30.—C. H. J. Clayton: Some Factors of Sea-Defence Work.
ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Prof. A. A. Cock: Prayer—the Psychological and Metaphysical Concepts of its Meaning.
SOCIETY OF CHEMICAL INDUSTRY (London Section) (Annual Meeting) (at Chemical Society), at 8.—Dr. A. E. Dunstan and Mr. O'Brien: Utilisation of Bauxite for Refining and its Technical Application.
INSTITUTION OF RUBBER INDUSTRY (London Section) (at Engineers' Club, Coventry Street), at 8.—J. Fairbairn: The Rubber Industry—A Plea for Closer Working.
ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 8.30.—M. Terry: From East to West across Northern Australia.
MEDICAL SOCIETY OF LONDON, at 9.—W. Trotter: Certain Minor Injuries of the Brain (Annual Oration).

TUESDAY, MAY 6.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. J. Barcroft: The Effect of Altitude on Man. (II.) The Circulation.
ROYAL SOCIETY OF MEDICINE (Orthopædics Section), at 5.30.—Annual General Meeting.
ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—R. Broom: Some Points in the Structure of the Pareiasaurian Skull.—D. M. S. Watson: The Elasmosaurid Shoulder-Girdle and Fore-Limb.
RÖNTGEN SOCIETY (at Institution of Electrical Engineers), at 8.15.—Short descriptions and demonstrations of New X-Ray Apparatus:—Zenith

Diascope Couch—Three Plane Combination, by A. E. Dean and Co.—Some Recent Improvements in Protective X-Ray Apparatus and Accessories, Newton and Wright, Ltd.—A New Portable Apparatus, The Solus Electrical Co.—The Gaiffe Intensionometer, Watson and Sons (Electro-Medical) Ltd.

WEDNESDAY, MAY 7.

MEDICAL SOCIETY OF LONDON, at 2.—Dr. C. W. Buckley: British Spas: Their Waters and Methods of Treatment.
GEOLOGICAL SOCIETY OF LONDON, at 5.30.—Mrs. Ethel Gertrude Woods and Miss Margaret Chorley Crossfield: The Geology of the Clwydian Range, from Moel Arthur to Gyrn.
ROYAL SOCIETY OF MEDICINE (Surgery Section), at 5.30.—Annual General Meeting.
INSTITUTION OF ELECTRICAL ENGINEERS (Wireless Section), at 6.—L. C. Pocock: Faithful Reproduction in Radio Telephony.
ROYAL MICROSCOPICAL SOCIETY (Biological Section), at 7.30.—F. Martin-Duncan: The Hive Bee, its Structure and Life History.
SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS (at Chemical Society), at 8.—J. H. Lane and L. Eynon: Determination of Sugar in Urine by means of Fehling's Solution with Methylene Blue as Internal Indicator.—J. J. Considine: Simple Forms of Hydrogen Electrode.—K. A. Williams and E. R. Bolton: Note on the Recognition of Hydrogenated Oils.—Dr. A. T. Etheridge: Estimation of Copper and Tin and Copper-Tin Alloys.—D. W. Stewart: Notes on the Analysis of Milk Powders and Condensed Milks.

THURSDAY, MAY 8.

IRON AND STEEL INSTITUTE (Annual Meeting) (at Institution of Civil Engineers), at 10.30 a.m.—Presentation of Bessemer Medal to Prof. A. Sauveur.—Sir William Ellis: Presidential Address.—J. P. Bedson: Continuous Rolling Mills, their Growth and Development.—J. H. Andrew and H. Hyman: High Temperature Growth of Special Cast Irons.—At 2.30.—F. C. Thompson and W. E. W. Millington: The Plastic Deformation of α and γ Iron.—H. O'Neill: The Effect of Cold-Work upon the Density of a Iron.—C. A. Edwards and L. B. Pfeil: The Production of Large Crystals by annealing Strained Iron.—A. Westgren and G. Phragmén: X-Ray Studies on the Crystal Structure of Steel. Part II.
ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—F. Balfour Browne: Social Life among Insects (II.).
CHILD-STUDY SOCIETY (at Royal Sanitary Institute) (Annual Meeting), at 6.—Hon. Sir John A. Cockburn: Chairman's Address.
INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—Annual General Meeting.
OPTICAL SOCIETY (at Imperial College of Science), at 7.30.—E. A. H. French: The Preparation of Coppered Glass Mirrors.—H. W. Lee: The Taylor-Hobson F/2 Anastigmat.

FRIDAY, MAY 9.

IRON AND STEEL INSTITUTE (Annual Meeting) (at Institution of Civil Engineers), at 10 a.m.—W. Dyrsen: Recovery of Waste Heat in Open Hearth Practice.—J. Seigle: Theoretical Considerations respecting Certain Features in the Working and Efficiency of Reversing Regenerators.—K. Honda: On the Forging Temperature of Steels.—K. Honda and K. Takahashi: On the Indentation Hardness of Metals.—A. L. Norbury and T. Samuel: Experiments on the Brinell-tensile Relationship.—At 2.30.—G. S. Bell and C. H. Adamson: Transverse Test Bars and Engineering Formulae.—E. W. Colbeck and D. Hanson: The Hardening of Silico-Manganese Steels.—D. J. Macnaughtan: Hardness of Electro-deposited Iron, Nickel, Cobalt, and Copper.—L. Aitchison and W. L. Johnson: Notes on the Testing of Metal Strip.—W. N. Hindley: Some Effects of the Penetration of Arsenic and Sulphur into Steel.
ROYAL ASTRONOMICAL SOCIETY, at 5.—B. M. Peek: Occultation of a Tauri, 1924, April 8.—Dr. H. Jeffreys: (a) A Possible Increase of Mass of the Sun; (b) The Internal Constitution of Jupiter and Saturn.—Prof. S. D. Tscherny: Determination of the Relative Parallaxes of the Stars 32H Camelopardalis (A) and Lalande 27742.—M. C. Johnson: Cumulative Ionisation in Stellar Atmospheres.
PHYSICAL SOCIETY OF LONDON (at Imperial College of Science), at 5.—Dr. E. Griffiths and J. H. Awbery: Apparatus for the Determination of the Latent Heats of Liquids of High Boiling Points.—Dr. B. W. Clark: The Study of Diffusion in Liquids by an Optical Method.
MALACOLOGICAL SOCIETY OF LONDON (at Linnean Society), at 6.
INSTITUTION OF MECHANICAL ENGINEERS, at 6.
JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—F. W. Follott: Methods of Purifying Water and Sewage.
ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. V. F. K. Bjerknes: The Forces which lift Aeroplanes.
SATURDAY, MAY 10.
ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Dr. F. A. E. Crew: Heredity and Sex (II.).
PUBLIC LECTURES.
MONDAY, MAY 5.
UNIVERSITY COLLEGE, at 5.30.—Prof. W. A. Noyes: Positive and Negative Valences.
WEDNESDAY, MAY 7.
KING'S COLLEGE, at 5.30.—Sir Halford Mackinder: The Communications of the Empire.
THURSDAY, MAY 8.
INSTITUTION OF PATHOLOGY AND RESEARCH, ST. MARY'S HOSPITAL, at 5.—Prof. A. V. Hill: The Function of Hæmoglobin in the Body.
FRIDAY, MAY 9.
CHARING CROSS HOSPITAL MEDICAL SCHOOL, at 5.—Prof. J. Van Der Hoeve: Accommodation (in English).
ROYAL SOCIETY OF ARTS, at 5.15.—Prof. E. W. MacBride: Some Causes of a C3 Population (Chadwick Lecture).