

## Official Publications Received.

## BRITISH.

The Victorian Bush Nursing Association. Report and Statement of Accounts to 30th June 1929. Pp. 244. (Melbourne.)

City of Belfast: New Museum and Art Gallery. Publication 97: Guide to Casts of Greek and Roman Sculpture. By I. A. Richmond. Pp. 28. (Belfast.) 3d.

Transactions and Proceedings of the Botanical Society of Edinburgh. Vol. 30, Part 2, Session 1928-29. Pp. ix-xv + 67-186 + plates 3-13. (Edinburgh.) 7s. 6d.

Air Ministry: Aeronautical Research Committee. Reports and Memoranda. No. 1245 (E. 31): Fuel Flowmeters designed to measure Mass Flow. By P. S. Kerr, with Appendices by D. Robinson, R. J. Penn and W. C. Cooper. (I.C.E. 660: I.C.E. 676: I.C.E. 693.) Pp. 21+8 plates. (London: H.M. Stationery Office.) 1s. net.

The Royal Technical College, Glasgow. Annual Report on the One Hundred and Thirty-third Session adopted at the Annual Meeting of Governors held on the 15th October 1929. Pp. 73. (Glasgow.)

John Innes Horticultural Institution. Conference on Polyploidy held at the Institution on January 19th, 1929, to commemorate the Centenary of the birth of the Founder, John Innes. Pp. 48. (London.)

Education and the League of Nations: being the Report of the Joint Committee of Enquiry into the Teaching of the Aims and Achievements of the League of Nations. Pp. 28. (London.)

Report of the Second Quarterly Meeting of the Ross Institute Industrial Anti-Malarial Advisory Committee, held in the Council Chamber of the Rubber Growers' Association, 2 Idol Lane, E.C.3, on Monday, October 14th, at 2.30 p.m. Pp. 8. (London: Ross Institute and Hospital for Tropical Diseases.)

Imperial Cancer Research Fund. Twenty-seventh Annual Report, 1928-1929. Pp. 18. (London.)

Quarterly Journal of the Royal Meteorological Society. Vol. 55, No. 232, October. Pp. 323-418. (London: Edward Stanford, Ltd.) 7s. 6d.

Department of Scientific and Industrial Research. Building Science Abstracts, compiled by the Building Research Station and published in conjunction with the Institute of Builders. Vol. 2 (New Series), No. 10, October. Abstracts Nos. 1983-2216. Pp. v+351-386. (London: H.M. Stationery Office.) 9d. net.

Seventeenth Annual Report of the Director of the Solar Physics Observatory. Pp. 4. (Cambridge.)

Livingstone College. Annual Report and Statement of Accounts for the Year 1928-29. Pp. 24. (London: Leyton, E.10.)

Journal of the Indian Institute of Science. Vol. 12A, Part 13: i. Amylase from *Zea mays*, by Vinayak Narayan Patwardhan; ii. Enzymes from the Seeds of *Cucurbiturta boudou elia*, by Vinayak Narayan Patwardhan. Pp. 185-192. (Bangalore.) 8 annas.

Commonwealth of Australia: Council for Scientific and Industrial Research. Bulletin 43: The Bionomics of *Fasciola hepatica* in New South Wales and of the Intermediate Host, *Limnaea brazieri* (Smith). By I. Clunies Ross and A. C. McKay. Pp. 62. Pamphlet No. 13: The Mechanical Analysis of Soils. By C. S. Piper and H. G. Poole. Pp. 19. (Melbourne: H. J. Green.)

Report of the 7th Congress of the Far Eastern Association of Tropical Medicine, British India, December 5th, 10th, 24th, 1927. Pp. iii+193. (Kasauli: Central Research Institute.)

The Journal, Hyderabad Geological Survey. Vol. 1, Part 1: i. The Annual Report for 1927 F. of the Geological Survey Department, H.E.H. the Nizam's Government, with Maps and Sections; ii. A History of the Golconda Diamond Mines, compiled from all available Sources with Maps and Appendices, together with a Reprint from the Transactions of the Royal Society of a Paper read in 1877 by the Rt. Hon. the Earl Marshall of England. Pp. v+62. (Lingsugur: Hyderabad Geological Survey.) 2s. rupees.

The Ninety-sixth Annual Report of the Royal Cornwall Polytechnic Society. New Series, Vol. 6, Part 3. Pp. xxxi-xl+187-312+14. (Cambridge.) 5s.

## FOREIGN.

Department of the Interior: U.S. Geological Survey. Professional Paper 154-A: Moraines and Shore Lines of the Lake Superior Region. By Frank Leverett. Pp. iv+72+8 plates. (Washington, D.C.: Government Printing Office.) 50 cents.

U.S. Department of Commerce: Bureau of Standards. Bureau of Standards Journal of Research, Vol. 3, No. 3, September. R.P. No. 99: Thermoelectric Temperature Scales, by William F. Roeser; R.P. No. 100: Light Fastness of Lithographic Ink Pigments, by William D. Appel and Robert F. Reed; R.P. No. 101: Effect of Oxidizing Conditions on Accelerated Electrolytic Corrosion Tests, by Henry S. Rawdon and W. A. Tucker; R.P. No. 102: Representation of Aberration Diffraction Effects by means of Rotating Sectors, by A. H. Bennett; R.P. No. 103: Hot Aqueous Solutions for the Quenching of Steels, by H. J. French and T. E. Hamill; R.P. No. 104: Preparation of Experimental Saggur Bodies according to Fundamental Properties, by R. A. Heindl and L. E. Mong; R.P. No. 105: A Suppressed-Zero Electrodynamic Voltmeter, by F. K. Harris; R.P. No. 106: Two Isomeric Crystalline Compounds of *d*-mannose with Calcium Chloride, by J. K. Dale; R.P. No. 107: A Study of Purified Wood Fibres as a Paper-making Material, by Royal H. Rasch. Pp. 343-506. (Washington, D.C.: Government Printing Office.)

Ministry of Finance, Egypt: Coastguards and Fisheries Service. Report on the Fisheries of Egypt for the Year 1927. By El Miralal Ahmed Fouad Bey. Translated from the Arabic by Selim Eff. Khoury. Pp. vii+88. (Cairo: Government Publications Office.) 5 P.T.

Bulletin of the American Museum of Natural History. Vol. 58, Art. 11: A Collection of Brachyuran Crustacea from the Bay of Panama and the Fresh Waters of the Canal Zone. By Lee Boone. Pp. 561-583. (New York City.)

Department of the Interior: Bureau of Education. Bulletin, 1929, No. 22: Secondary Education. By Carl A. Jessen. Pp. 19. (Washington, D.C.: Government Printing Office.) 5 cents.

U.S. Department of Agriculture. Technical Bulletin No. 137: The Pandora Moth, a Periodic Pest of Western Pine Forests. By J. E. Patterson. Pp. 20. 5 cents. Technical Bulletin No. 138: Studies on the Fall Army Worm in the Gulf Coast District of Texas. By R. A. Vickery. Pp. 64. 10 cents. (Washington, D.C.: Government Printing Office.)

Scientific Papers of the Institute of Physical and Chemical Research. No. 207: The Angular Intensity Distribution of Continuous X-ray Spectrum. By Y. Sugura. Pp. 251-290. 65 sen. Nos. 208-213, 208: Über die Alkalicellulose und deren Bedeutung auf die Herstellung der Kunstseide, von Gen-itsu Kita und Ichirō Sakurada; 209: On the Development of Experimental Methods in Photo-Elasticity, by Ziro Tuzi; 210: Photo-Elastic Study of Stress-Distributions in the Side-Framing of Steel Car, by Ziro Tuzi; 211: Mechanical Properties of Snow-Layer, by Masao Kuroda; 212: A New Design of Cathode-Ray Oscillograph and its Applications to Piezo-Electric Measurements, by Shumpei Watanabe; 213: Study on Impact Test by Means of Piezo-Electricity and Cathode-Ray Oscillograph, by Shumpei Watanabe. Pp. 112+14 plates. 2.20 yen. (Tokyo: Iwanami Shoten.)

Publikationer og mindre Meddelelser fra Københavns Observatorium. Nr. 65: Formeln zur genäherten Störungsrechnung in Bahnelementen. Von Bengt Strömgren. Angewandt auf die Planeten 633 Zelima, 956 (1921 IW), 979 Isewa, 1035 Amata und 1049 (1925 RB), von O. Möller Nielsen und E. Laursen. Pp. 26. (København.)

Collection des travaux chimiques de Tchecoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 1, No. 11, Novembre. Pp. 571-626. (Prague: Regia Societas Scientiarum Bohemica.)

University of Illinois Engineering Experiment Station. Bulletin No. 196: An Investigation of the Friability of Different Coals. By Cloyde M. Smith. Pp. 50. 30 cents. Bulletin No. 197: A Study of Fatigue Cracks in Car Axles. Part 2: A Report of an Investigation conducted by the Engineering Experiment Station, University of Illinois, in cooperation with the Utilities Research Commission. By Prof. Herbert F. Moore, Stuart W. Lyon and Norville J. Alleman. Pp. 30. 20 cents. (Urbana, Ill.)

## CATALOGUES.

South Africa: Books, Prints, Paintings and Manuscripts. (Catalogue 520.) Pp. 32. (London: Francis Edwards, Ltd.)

Respiration Apparatus designed by Dr. E. Simonson. Pp. 8. (Berlin-Friedenau: Askania-Werke A.G.)

Catalogue of First and Early Editions, mainly of 19th and 20th Century Authors. (No. 337.) Pp. 134. (Cambridge: W. Heffer and Sons, Ltd.)

Christmas Catalogue: a Selection of Books suitable for Presentation. Pp. 16. (London: Francis Edwards, Ltd.)

First Editions of English Literature: the Nineteenth Century to the Present Day. (Catalogue No. 522.) Pp. 56. (London: Francis Edwards, Ltd.)

Zeiss Field Glasses. (T. 380E.) Pp. 54. (London: Carl Zeiss (London), Ltd.)

## Diary of Societies.

FRIDAY, DECEMBER 13.

ASSOCIATION OF ECONOMIC BIOLOGISTS (in Botany Lecture Room, Imperial College of Science and Technology), at 2.30.—Prof. E. S. Salmon, F. R. Petherbridge, M. H. Moore, and others: Discussion on Apple Scab, its Incidence and Control.

BIOCHEMICAL SOCIETY (at St. Bartholomew's Hospital), at 3 P.M.—H. E. Archer and G. A. Harrison: The Effect of Reaction on the Heat Test for Bence-Jones' Proteinuria.—W. H. Hurlley: Notes on the Determination of Iodine in Blood, etc.—K. V. Thimann: The Precipitation of the Basic Amino-acids of Proteins by Phosphotungstic Acid.—M. J. Rowlands and B. Wilkinson: Vitamin Content of Grass Seeds in Relationship to Manures.—A. G. Norman: The Biological Decomposition of Plant Materials.—D. R. P. Murray and C. G. King: The Stereochemical Specificity of Esterases.—H. Chick and M. H. Roscoe: Stability to Heat of Vitamin B<sub>2</sub> (Anti-dermatitis, Anti-pellagra).—F. K. Herbert and M. C. Bourne: The Non-Glucose Reducing Substances of Blood, with Special Reference to Glutathione.—B. W. Town: Isolation of Isolucine from Gliadin.—H. G. Reeves and E. T. Renbourn: Some Properties of Dihydroxyacetone.—J. M. Gulland and R. A. Peters: Observations on the Reducing Substances in Avian Blood.—G. Graham: The Presence of Homogentisic Acid in the Blood of Patients with Alkaptonuria.

DIESEL ENGINE USERS' ASSOCIATION (at Caxton Hall), at 3.30.—W. Grose: A Form of Coupling for Geared Diesel Engines for Land and Marine Purposes.

ROYAL ASTRONOMICAL SOCIETY, at 5.—A. N. Brown: Observations of (Ch. 678) U Persei, 1924-29.—E. A. Kreiken: The Distribution of the Double Stars along the Giant Series.—J. G. Hagen: On the Significance of Baxendell's Nebulosity.—H. G. Tomkins: Three Features of the Lunar Crust, from Photographs taken at Dedham.—Dr. H. Spencer Jones and J. W. Jackson: Stellar Parallax Determined Photographically at the Cape Observatory (2nd list).—W. S. Franks: Visual Observations of Dark Nebulae.

ROYAL SOCIETY OF MEDICINE (Ophthalmology Section) (Clinical Meeting, at Royal London Ophthalmic Hospital), at 5.

PHYSICAL SOCIETY (at Imperial College of Science and Technology), at 5.—J. H. Awbery and Dr. Ezer Griffiths: Apparatus for Determining the Specific Heat of a Material in Powder Form.—Dr. W. E. Deming: On the Determination of the Parameters in an Empirical Formula.—N. S. Alexander: The *J*-Phenomenon in X-Rays.

INSTITUTION OF ENGINEERING INSPECTION (at Royal Society of Arts), at 5.30.—Capt. B. H. Peter: The Trend of Development in Railway Signalling.

ROYAL SOCIETY OF MEDICINE (Clinical Section), at 5.30.  
MALACOLOGICAL SOCIETY OF LONDON (in Zoological Department, University College), at 6.