

Official Publications Received.

BRITISH.

- Canada. Department of Mines & Mines Branch. The Gypsum Industry of Canada. By L. Heber Cole. (No. 714.) Pp. viii+164+20 plates. (Ottawa: F. A. Acland.) 30 cents.
- Transactions of the Mining and Geological Institute of India. Vol. 24, Part 3, July. Pp. 223-330+xiii+plates 15-18. 2.8 rupees: to non-Members, 4 rupees. Vol. 25, Part 1, August. Pp. 79. 2.8 rupees; to non-Members, 4 rupees. Member List, 1930. Pp. 26. (Calcutta.)
- Proceedings of the University of Durham Philosophical Society, 1929-1930. Vol. 8, Part 3, July. Pp. iii+161-279+vi. (Durham.) 5s.
- Indian Central Cotton Committee: Technological Laboratory. Technological Bulletin, Series B, No. 9: The Foundations of Yarn-Strength and Yarn-Extension. Part 4: The Influence of Yarn-Twist on the Diameters of Cotton Yarns and on the Proportions of Fibre-Slippage and Fibre-Fracture in Yarn-Breakage. By A. N. Gulati and Dr. A. J. Turner. Pp. ii+22. (Bombay.) 8 annas.
- Department of Scientific and Industrial Research. Report of the Forest Products Research Board, with the Report of the Director of Forest Products Research, for the Period ended 31st December 1929. Pp. v+54+11 plates. (London: H.M. Stationery Office.) 4s. net.
- The Organization of the Electrical Industry in Great Britain. By P. Good. Pp. 44. (London: Institution of Electrical Engineers.)
- The North Staffordshire Field Club. Transactions and Annual Report, 1929-30. Edited by H. V. Thompson. Vol. 64. Pp. 211+A24. (Stafford.) 7s. 6d.
- Air Ministry: Aeronautical Research Committee. Reports and Memoranda. No. 1318 (E. 35): Detonation and Lubricating Oil. By R. O. King and Dr. H. Moss. (I.C.E. 747.) Pp. 23+3 plates. 1s. 3d. net. No. 1326 (E. 37): Wind Tunnel Experiments on Steam Condensing Radiators. By Dr. R. G. Harris, L. E. Caygill and R. A. Fairthorne. (T. 2591: I.C.E. 497.) Pp. 28+10 plates. 1s. 6d. net. No. 1330 (Ae. 462): Maximum Force on the Fin and Rudder of a Bristol Fighter. By F. B. Bradfield and R. A. Fairthorne. (T. 2964.) Pp. 4+4 plates. 4d. net. No. 1331 (Ae. 463): Hinge Moments of Balanced and Unbalanced Ailerons on R.A.F. 14 Wing, to Large Angles of Incidence. By F. B. Bradfield and R. A. Fairthorne. (T. 2968.) Pp. 9+5 plates. 9d. net. (London: H.M. Stationery Office.)
- Department of Scientific and Industrial Research. The Investigation of Atmospheric Pollution: Report on Observations in the Year ended 31st March 1929. Fifteenth Report. Pp. vii+64. (London: H.M. Stationery Office.) 3s. 6d. net.
- Annual Report for the Year ended March 31st, 1930, of the Executive Council of the National Institute for the Blind. Pp. 66. (London.)
- Proceedings of the Royal Irish Academy. Vol. 39, Section B, No. 17: The Marine Mollusca of the Shores and Shallow Waters of County Dublin. By Nathaniel Colgan. Edited by A. R. Nichols. Pp. 391-424. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s.
- The Scientific Proceedings of the Royal Dublin Society. Vol. 19 (N.S.), No. 45: Photo-electric Measurements of Illumination in relation to Plant-Distribution. Part 3: Certain Spruce, Larch, Oak and Holm Oak Woods. By Dr. W. R. G. Atkins and Florence A. Stanbury. Pp. 517-531. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s.
- Empire Cotton Growing Corporation. Report of the Executive Committee to be submitted to the Meeting of the Administrative Council on October 21st, 1930. Pp. 8. (London.)
- University of London: University College. Calendar, Session 1930-1931. Pp. 509+cevi+34. (London: Taylor and Francis.)
- University College of North Wales. Calendar for Session 1930-31. Pp. 409. (Bangor.)
- New Zealand: State Forest Service. Annual Report of the Director of Forestry for the Year ended 31st March 1930. Pp. 34+2 maps. (Wellington, N.Z.: W. A. G. Skinner.)
- Ministry of Agriculture and Fisheries. Report on Salmon and Freshwater Fisheries for the Year 1929. Pp. 64+8 plates. (London: H.M. Stationery Office.) 1s. 6d. net.
- Transactions and Proceedings of the New Zealand Institute. Vol. 61, Part 2, June. Pp. iii+217-439+plates 39-67. (Wellington, N.Z.)
- Osmania University, Hyderabad: Publications of the Nizamiah Observatory. Astrographic Catalogue 1900-0. Hyderabad Section (Part 2), Dec. -20° to -24°, from Photographs taken and measured at the Nizamiah Observatory, Hyderabad, under the direction of T. P. Bhaskaran. Vol. 7: Measures of Rectangular Co-ordinates and Diameters of 88,506 Star-Images on Plates with Centres in Dec. -23°. Pp. xxxix+305. (Hyderabad.) 15 rupees; 20s. net.
- Empire Cotton Growing Corporation. Conference on Cotton Growing Problems, August 1930: Report and Summary of Proceedings. Pp. 166. (London.) 2s. 6d.
- The Journal of the Board of Greenkeeping Research. Vol. 1, No. 3, October. Pp. 109-189+8 plates. (Bingley, Yorks.: St. Ives Research Station.) 2s. 6d.
- Ordnance Survey. Report on the Experimental Revision of the 1/2500 Ordnance Survey Plans with the aid of Photographs taken from the Air. (No. 2, 1928-30.) Pp. 8. (London: H.M. Stationery Office.) 2d. net.

FOREIGN.

- The Fishery Experiment Station, Government-General of Työsen, Hsuan, Työsen, Japan. Annual Report of Hydrographical Observations. No. 2-3: For the Years 1927-28. Pp. 42+22 plates. No. 4: For the Year 1929. Pp. 44+6 plates. Oceanographical Charts for the Year 1928: Appendix to Annual Report of Hydrographical Observations, No. 3. 24 charts. Oceanographical Charts for the Year 1929: Appendix to Annual Report of Hydrographical Observations, No. 4. 43 charts. (Hsuan.)
- Ministry of Finance, Egypt. Report of the Department of Mines and Quarries, 1928. Pp. ix+44. (Cairo: Government Press.)
- Huvuddragen av Stockholms Geografi. Pp. 193-357. (Stockholm: Geografiska Förbundet.)

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- United States Department of Agriculture. Circular No. 109: Parasitism of the Mediterranean Fruit Fly in Hawaii, 1922-1924. By H. F. Willard and T. L. Bissell. (Corrected edition.) Pp. 12. (Washington, D.C.: Government Printing Office.) 5 cents.
- Proceedings of the United States National Museum. Vol. 78, Art. 1: New Two-winged Flies of the Family Calliphoridae from China. By J. M. Aldrich. (No. 2844.) Pp. 5. (Washington, D.C.: Government Printing Office.)
- Scientific Papers of the Institute of Physical and Chemical Research. No. 266: On the Stark Effect of Aluminium and Carbon. By Yoshio Ishida and Masaichi Fukushima. Pp. 123-143+plates 22-24. 40 sen. Nos. 267-270: Thickness of the Oxide Film which produces Temper Colour on Iron, by Masawo Kuroda; Resistance of Impact on Water Surface, Part 2: Cone (continued), by Shumpei Watanabe; Über die katalytische Reduktion des Kohlenoxyds unter gewöhnlichem Druck, 6: Die Kohlenwasserstoffbildende Wirkung des Eisenkatalysators, von Shinjiro Kodama; Studien in der Fluoreneihe, von Keizo Nakamura. Pp. 145-188+plates 25-30. 90 sen. (Tōkyō: Iwanami Shoten.)
- Collection des travaux chimiques de Tchecoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 2, No. 9, Septembre. Pp. 545-592. Année 2, No. 10, Octobre. Pp. 593-652. (Prague: Regia Societas Scientiarum Bohemica.)
- Acta Zoologica Fennica, 9. Eddidit Societas pro Fauna et Flora Fennica. Beiträge zu einer einheitlichen Auffassung gewisser Chromosomenfragen: mit besonderer Berücksichtigung der Chromosomenverhältnisse in der Spermatogenese von Alydus calcaratus L. (Hemiptera). Von Enzo Reuter. Pp. viii+487+8 Tafeln. (Helsingforsia.)
- Visindatfélag Íslendinga (Societas Scientiarum Islandica). 5: Some additional Notes on Thermal Activity in Iceland. By Thorkell Thorkelson. Pp. 31+3 plates. (Reykjavik: Ríkisprentsmidjan Gutenberg.)
- Comité national français de Géodésie et Géophysique. Assemblée générale du 7 avril 1930: Compte rendu publié par G. Perrier. Pp. 63. (Paris.)
- Rapport annuel sur l'état de l'Observatoire de Paris pour l'année 1929. Par Ernest Esclançon. Pp. 40. (Paris.)
- Journal de la Société des Américanistes. Nouvelle Série, Tome 22, Fasc. 1, Pp. 247. (Paris.) 60 francs.
- Proceedings of the United States National Museum. Vol. 77, Art. 5: The Excavation and Repair of Betatakin. By Neil Merton Judd. (No. 2838.) Pp. 77+46 plates. Vol. 77, Art. 6: A Monograph of the Foraminiferal Family Polymorphinidae, Recent and Fossil. By Joseph A. Cushman and Yoshiaki Ozawa. (No. 2829.) Pp. 195+40 plates. (Washington, D.C.: Government Printing Office.)
- Museums of the Brooklyn Institute of Arts and Sciences. Report upon the Condition and Progress of the Museums for the Year ending December 31, 1929. By William Henry Fox. Pp. 77+5 plates. (Brooklyn, N.Y.)
- Cornell University Agricultural Experiment Station. Bulletin 505: Some Factors affecting the Cost of Operation of Retail Feed Stores in New York State. By Whiton Powell. Pp. 126. Bulletin 506: An Economic Study of Tractors on New York Farms. By C. W. Gilbert. Pp. 80. Memoir 129: Genetical and Cytological Studies of Mendelian Asynapsis in *Zea mays*. By G. W. Beadle. Pp. 23+6 plates. Memoir 130: A Study of Meadow-Crop Diseases in New York. By James G. Horsfall. Pp. 139. Memoir 131: Some Cold-Storage and Freezing Studies on the Fruit of the Vinifera Grape. By D. B. Carrick. Pp. 37. (Ithaca, N.Y.)
- Proceedings of the American Academy of Arts and Sciences. Vol. 64, No. 12, October: Records of Meetings, 1928-1929, 1929-1930; Biographical Notices; Officers and Committees for 1929-1930, 1930-1931; List of the Fellows, Associates and Foreign Honorary Members; Statutes and Standing Votes; Rumford Premium; Index. Pp. 463-613. (Boston, Mass.)

CATALOGUES.

- The Thring High Pressure Indicator. Pp. 4. (London: C. F. Casella and Co., Ltd.)
- Verlagskatalog, 1811-1930. Pp. 123. (Leipzig: Wilhelm Engelmann.)
- Surveying Instruments; Drawing Instruments and Materials; Photographic Apparatus and Materials; Plan Reproduction. Pp. iv+261. (London: A. West and Partners.)
- Books on the Subjects of Conchology, Entomology, Geology, Ornithology and General Zoology. (Catalogue No. 179.) Pp. 32. (London: Dulau and Co., Ltd.)
- Orchidaceae. Supplementum: Iconographiae Botanicae coloratae. (No. 78.) Pp. 38. (Berlin: W. Junk.)

Diary of Societies.

FRIDAY, NOVEMBER 21.

- ASSOCIATION OF ECONOMIC BIOLOGISTS (in Botany Department, Imperial College of Science), at 2.30.—Dr. H. F. Barnes: The Specific Resistance of Willows to Insect Attack.
- DIESEL ENGINE USERS' ASSOCIATION (at Caxton Hall), at 3.30.—Major W. H. Goddard: The Application of Diesel Engines to Road Transport.
- ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section), at 5.—Dr. F. G. Thomson: The Role of Hydrology in Preventive Medicine.
- PHYSICAL SOCIETY (at Imperial College of Science and Technology), at 5.—Dr. E. T. Paris: The Determination of the Acoustical Characteristics of Singly-resonant Hot-wire Microphones.—Dr. K. R. Rao: The Spectrum of Doubly-ionised Arsenic.—Dr. H. C. Bowker: The Effect of Temperature on Spark Potential.—Dr. L. F. Bates: The Curie Points.—Demonstration of an Instrument for Compounding Curves, designed by Dr. Haughton.
- ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Arthur Keith: Demonstration of Specimens illustrating the Enlargement of the Prostate, with an Account of the Present State of Knowledge concerning the Etiology of the Condition.