

Official Publications Received.

The Institution of Civil Engineers. Engineering Abstracts prepared from the Current Periodical Literature of Engineering and Applied Science published outside the United Kingdom. Supplement to the Minutes of Proceedings of the Institution. Edited by W. F. Spear. New Series, No. 22, January. Pp. 234. (London: Institution of Civil Engineers.)

Proceedings of the Royal Society of Edinburgh, Session 1924-1925. Vol. 45, Part 1, No. 7: An Investigation of the Absorption of Superposed X-radiations. By Wm. H. Watson. Pp. 48-58. 1s. Vol. 45, Part 1, No. 8: The Stability of Suspensions. (1): The Rate of Sedimentation of Kaolin Suspensions by Salts at varying Hydrogen Ion Concentrations. By William Ogilvy Kernack and William Turner Horace Williamson. Pp. 59-70. 1s. Vol. 45, Part 1, No. 9: The Influence of Gelatin on the Stability of a Colloidal Solution of Cholesterol, and on the Charge on the Particles. By William Ogilvy Kernack and Peter MacCallum. Pp. 71-89. 1s. 6d. Vol. 45, Part 1, No. 10: The Action of Salts with Multi-valent Cations on Colloidal Solutions of Gold and Gum Benzoin. By William Ogilvy Kernack and Cecil Innes B. Thwell Voge. Pp. 90-101. 1s. (Edinburgh: R. Grant and Son; London: Williams and Norgate, Ltd.)

Ministry of Health: Advisory Committee on Water. Report on Measures for the Protection of Underground Water. Pp. 19. (London: H.M. Stationery Office.) 2d. net.

The Physical Society of London. Proceedings, Vol. 37, Part 3, April 15. Pp. 101-194. (London: Fleetway Press, Ltd.) 6s. net.

Proceedings of the Cambridge Philosophical Society. Biological Sciences. Vol. 1, No. 4, April. Pp. 219-277. (Cambridge: At the University Press.) 12s. 6d. net.

Aeronautical Research Committee. Reports and Memoranda. No. 934 (Ae. 155): Wind Channel Tests on Radiators. By R. G. Harris and W. K. Alford. Pp. 16+5 plates. 1s. net. No. 942 (Ae. 162): The Royal Aircraft Establishment Control Movement Recorder, Mark III. By D. A. Jones and H. L. Stevens. Pp. 8+3 plates. 6d. net. No. 943 (Ae. 163): Tests of three Aerofoils suitable for High Speed; A.D. 1, Sloane, and R.A.F. 26. By F. B. Bradfield and A. S. Hartshorn. Pp. 6+6 plates. 6d. net. No. 944 (Ae. 164): Measurement of Pitching Moments due to Roll on Wings of Avro 504.K. By F. B. Bradfield. Pp. 6+2 plates. 4d. net. No. 945 (Ae. 165): Lift and Drag of Junker Monoplane; Comparison of Model with full scale Results. By B. D. Clark, L. P. Coombes, H. Glauert and A. S. Hartshorn. Pp. 10+10 plates. 9d. net. No. 946 (Ae. 166): The Theory of the Design of Aerofoils, with an Analysis of the Experimental Results for the Aerofoils R.A.F. 25, 26, 30 to 33. By H. Glauert. Pp. 7+3 plates. 6d. net. No. 948 (Ae. 168): An Experimental Investigation into the Properties of certain Framed Structures having Redundant Bracing Members. By Prof. A. J. Sutton Pippard. Pp. 25+6 plates. 1s. 3d. net. (London: H.M. Stationery Office.)

The Volcanic Activity and Hot Springs of Lassen Peak. By Arthur L. Day and E. T. Allen. (Publication No. 360.) Pp. viii+190+14 plates. (Washington: Carnegie Institution.)

Rhodesia Museum, Bulawayo. Twenty-third Annual Report, 1924. Pp. 12. (Bulawayo.)

Field Museum of Natural History. Report Series, Vol. 6, No. 4: Annual Report of the Director to the Board of Trustees for the Year 1924. (Publication 227.) Pp. 265-383+plates 47-62. (Chicago.)

Ministry of Agriculture, Egypt: Technical and Scientific Service (Botanical Section). Bulletin No. 55: Ratoon Cotton in Egypt; a Preliminary Note. By James Templeton. Pp. iii+14+1 plate. (Cairo: Government Publications Office.) 5 P.T.

Department of the Interior: Bureau of Education. Bulletin, 1924, No. 17: American School Buildings. By Fletcher B. Dresslar. Pp. ix+100+45 plates. (Washington: Government Printing Office.) 45 cents.

Experimental Researches and Reports published by the Department of Glass Technology, the University, Sheffield. Vol. 7, 1924. Pp. iii+175. (Sheffield.)

The Institute of Physics. Report of the Board for the Year 1924. Pp. 15. (London.)

Bergens Museum, 1925: en historisk fremstilling redigert av professorkollegiet. Pp. 523. (Bergen.)

Nauka Polska: Jej Potrzeby, Organizacja i Rozwój. Tom 5. Pp. vi+553. (Warszawa: Im. Mianowskiego.)

La science polonaise: ses besoins, son organisation et ses progrès. Résumé français des articles parus dans le volume 5. Pp. 36. (Varsovie: J. Mianowski.)

Proceedings of the Royal Irish Academy. Vol. 37, Section A, No. 1: The Equilibrium of Ionisation in the Atmosphere. By Prof. J. J. Nolan, R. K. Boylan and G. P. de Sauty. Pp. 12. 1s. Vol. 37, Section B, Nos. 4, 5: The α and γ Isomerides of 2-4-6-3'-4'-Pentamethoxy Diphenyl Propane, by J. J. Druumm, Norah G. J. O'Reilly and Prof. Hugh Ryan; The Condensation of Aldehydes with Methyl ethyl ketone, by Prof. Hugh Ryan and John J. Lennon. Pp. 19-36. 1s. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.)

Bulletin of the American Museum of Natural History. Vol. 51, Art. 9: A Revision of the Mesozoic Crocodylia of North America. By Charles C. Mook. Pp. 319-432+plates 4-5. (New York.)

Memoirs of the Geological Survey of India. Palaeontologia Indica. New Series, Vol. 6, Memoir No. 4: Upper Carboniferous Fossils from Chitral and the Pamirs. By Dr. F. R. Cowper Reed. Pp. vii+134+10 plates. 9.13 rupees; 15s. 3d. New Series, Vol. 8, Memoir No. 2: The Anthracotheriidae of the Dera Bugti Deposits in Baluchistan. By C. Forster Cooper. Pp. iv+60+7 plates. 4 rupees; 6s. 4d. (Calcutta: Government of India Central Publication Branch.)

Memoirs of the Geological Survey of India. Vol. 48, Part 2: The Geology of parts of the Persian Provinces of Fars, Kirman and Laristan. By Dr. Guy E. Pilgrim. Pp. vi+116+plates 11-16. (Calcutta: Government of India Central Publication Branch.) 3.12 rupees; 6s. 3d.

Survey of India. General Report for 1923-24, from 1st October 1923 to 30th September 1924. Prepared under the Direction of Col. E. A. Tandy. Pp. vii+66+ii+7 maps. (Calcutta.) 2 rupees; 3s. 6d.

Canada. The Dominion Fuel Board in co-operation with the Geological Survey, Department of Mines. Smoky River Coal Field: Examination and Comparison with the Kananaskis Area. By James McEvoy. Pp. x+19+5 plates. (Ottawa: F. A. Acland.)

Canada. Department of Mines: Geological Survey. Bulletin No. 39: Colour Printing of Geological Maps. By C.-O. Sénécal. (Geological Series No. 44.) Pp. iv+4 plates. (Ottawa: F. A. Acland.)

Report and Balance Sheet of the National Botanic Gardens of South Africa, Kirstenbosch, Newlands, Cape (and the Karoo Garden, Whitehill, near Matjiesfontein), for the Year ending 31st December 1924. Pp. 23. (Kirstenbosch.)

Diary of Societies.

SATURDAY, MAY 30.

SOCIETY FOR EXPERIMENTAL BIOLOGY (at King's College), at 10 A.M.—R. Chambers and P. Reznikoff: Studies on the Plasma Membrane and Physical State of Protoplasm by Micro-dissection and Micro-injection.—C. Shearer: Child's Hypothesis.—J. S. Huxley: Some Problems of Differential Growth.—Dr. W. H. Pearsall: Rates of Growth and Plant Form.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Rev. Dr. E. M. Walker: Democracy in the Ancient World (II.)

MONDAY, JUNE 1.

SOCIETY OF CHEMICAL INDUSTRY (London Section) (at Chemical Society), at 8.

WEDNESDAY, JUNE 3.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. R. Whiddington: The Passage of Electricity through Vacuum Tubes (Tyndall Lectures) (III.)

ROYAL SOCIETY OF MEDICINE (Surgery Section), at 5.30.—Dr. C. H. Mayo: A Consideration of Gastric and Duodenal Ulcer.

INSTITUTION OF ELECTRICAL ENGINEERS (Wireless Section), at 6.—Dr. R. L. Smith-Rose: The Effect of Wave Damping in Radio Direction-finding.

ENTOMOLOGICAL SOCIETY OF LONDON, at 8.

SOUTH-EASTERN UNION OF SCIENTIFIC SOCIETIES (Annual Congress) (at Folkestone) (continued on June 4, 5, 6).—Sir John Russell: The Place of Science in Rural Life (Presidential Address).—A. G. Tansley: The Vegetation of the English Chalk.—A. L. Leach: New Road Sections in North Kent.—E. C. S. Baker: Field Naturalists and Evolution.—G. L. Pepler: Regional Survey in East Kent.—D. W. Cutler: Life in a Garden Soil (Fishing Lecture).—Sir Arthur Smith Woodward: The Evolution of Fishes (Evening Lecture).—Capt. J. J. Eckersley: Broad-casting (Evening Lecture).

THURSDAY, JUNE 4.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. F. O. Bower: The Natural Classification of Ferns as a Study in Evolution (III.)

CHEMICAL SOCIETY, at 8.—W. A. Wightman: The Spatial Structure of Cycloparaffins. Part I. A New Aspect of Mohr's Theory and the Isomerism of Decahydronaphthalene.—Dr. T. A. Henry and H. Paget: Cherenopodium Oil. Part II. The Hydrocarbon Fraction.—J. A. Goodson and Dr. T. A. Henry: Echitamine.

ROYAL SOCIETY OF MEDICINE (Obstetrics and Gynaecology Section) (Annual General Meeting), at 8.—Dr. A. Willett: Placenta Praevia treated by Traction on the Fore-coming Head.—D. C. L. Fitzwilliams: Curiosities in Connexion with the Secretion of Milk.

SOUTH-EASTERN UNION OF SCIENTIFIC SOCIETIES (Annual Congress) (at Folkestone). (See June 3 for programme.)

FRIDAY, JUNE 5.

ROYAL SOCIETY OF MEDICINE (Laryngology Section) (Summer Meeting), at 10 A.M.—Dr. Tapia: The Big Pharyngostomes as an Accident in Laryngectomy: How they can be Avoided and the way of Closing them.—Dr. C. Mayo: Methods of Caring for Diseases of the Pharynx, Larynx, and Mouth.—Dr. R. Rodger: Tracheotomy in Tuberculous Laryngitis.—Dr. A. L. Turner and Dr. F. E. Reynolds: Furuncle of the Nasal Vestibule and Cavernous Sinus; Thrombosis the Pathway of Infection.—Dr. J. S. Fraser: Intra-nasal Dacryocystostomy.—At 3.—Clinical Meeting.—Prof. Burger: Pharyngeal Voice in a Case of Complete Laryngectomy.

BRITISH PSYCHOLOGICAL SOCIETY (at University College), at 5.30.—Extraordinary General Meeting.

PHILOLOGICAL SOCIETY (at University College), at 5.30.—W. Worrall: Dictionary Evening.

GEOLOGISTS' ASSOCIATION (at University College), at 7.30.—A. J. Brill and H. B. Milner: The Geology of the Eastbourne-Hastings Coastline.—G. S. Sweeting: The Geology of the Country around Crowhurst.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Howard Carter: The Tomb of Tut-Ankh-Amen from the Ante-Room to the Burial Chamber.

SOUTH-EASTERN UNION OF SCIENTIFIC SOCIETIES (Annual Congress) (at Folkestone). (See June 3 for programme.)

SATURDAY, JUNE 6.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Rev. Dr. E. M. Walker: Democracy in the Ancient World (III.)

SOUTH-EASTERN UNION OF SCIENTIFIC SOCIETIES (Annual Congress) (at Folkestone). (See June 3 for programme.)

FREE PUBLIC LECTURES.

WEDNESDAY, JUNE 3.

BEDFORD COLLEGE FOR WOMEN, at 5.15.—A. R. Hinks: Geodesy. (Succeeding Lecture on June 5.)

THURSDAY, JUNE 4.

ST. MARY'S HOSPITAL (Institute of Pathology and Research), at 5.—Sir Arthur Keith: The Structural and Functional Disorders of the Great Bowel.