

## Official Publications Received.

## BRITISH.

- Proceedings of the Fourteenth Indian Science Congress, Lahore 1927. (Second Circuit.) Pp. xxiv+384. (Calcutta: Asiatic Society of Bengal.)
- Australasian Association for the Advancement of Science (Australia and New Zealand). Programme, Hobart Meeting, January 1928. Pp. 29. Handbook to Tasmania; prepared for the Members of the Australasian Association for the Advancement of Science on the Occasion of its Meeting in Hobart, January 1928. Pp. ii+135+17 plates. 3s. (Sydney, N.S.W.)
- Metropolitan Boroughs of Wandsworth and Battersea. Guide to the Exhibition of Continued Education, Friday and Saturday, March 23rd and 24th, 1928. Pp. 40. (London: Battersea Polytechnic.) 2d.
- Memoirs of the Asiatic Society of Bengal. Vol. 9, No. 4: Geographic and Oceanographic Research in Indian Waters. By Lieut.-Col. R. B. Seymour Sewell. Part iv: The Temperature and Salinity of the Coastal Water of the Andaman Sea. Pp. 131-206. (Calcutta.) 2.13 rupees.
- Transactions of the Geological Society of South Africa. Vol. 30, January to December 1927. Pp. iv+144+7 plates. 42s. Proceedings of the Geological Society of South Africa: containing the Minutes of Meetings and the Discussions on Papers read during 1927. To accompany Vol. 30 of the Transactions, January-December 1927. Pp. iii+xlvi. (Johannesburg.)
- British Research Association for the Woolen and Worsted Industries. Annual Report, 1927-28. Pp. 40. (Leeds.)
- Annals of the Natal Museum. Edited by Dr. Ernest Warren. Vol. 6, Part 4, March. Pp. 169+11 plates. (London: Adlard and Son, Ltd.) 17s. net.

## FOREIGN.

- Observations and Investigations made at the Blue Hill Meteorological Observatory in the Year 1927 under the direction of Prof. Alexander McAdie. Pp. 36+21 plates. (Cambridge, Mass.)
- Transactions of the Astronomical Observatory of Yale University. Vol. 6, Parts 1 and 2: Tables for Weights and Probable Errors, by Frank Schlesinger; The Parallaxes of Fifty-eight Stars, by Frank Schlesinger, Frances Allen, and others. Pp. 32. Vol. 6, Part 3: The Stellar Case of the Problem of Three Bodies. By Paul Slavenas. Pp. 33-43. (New Haven, Conn.)
- Publikationer fra det Danske Meteorologiske Institut. Aarbøger. Isforholdene i der Arktiske Have (The State of the Ice in the Arctic Seas) 1927. Pp. 15+5 maps. (København: G. E. C. Gad.)
- Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique, 1928. 94<sup>e</sup> année. Pp. 92+68+3 planches. (Bruxelles: Maurice Lamertin.)
- Conseil Permanent International pour l'Exploration de la Mer. Rapports et procès-verbaux des Réunions. Vol. 46: Contribution aux appareils et aux méthodes destinés aux recherches océanographiques pratiquées à bord d'un navire en marche. Par J. Habert. Pp. 50+1 planche. (Copenhague: Andr. Fred. Høst et fils.)
- Koninklijk Nederlandsch Meteorologisch Instituut. No. 106a: Ergebnisse aerologischer Beobachtungen. 14, 1925. Pp. iv+41. 2.50 fl. No. 106: Seismische Registrierungen in De Bilt. 12, 1924. Pp. ix+54. 1.00 fl. No. 110: Oceanographische en Meteorologische Waarnemingen in der Atlantischen Oceaan, Juni, Juli, Augustus, (1870-1922). Kaarten. Pp. 16+24 kaarten. 7.50 fl. (Utrecht: Kemink en Zoon.)

## CATALOGUES.

- Bibliographie des livres français de médecine et de sciences, 1919-1928. Pp. xviii+166. (Paris: Masson et Cie.)
- Early English Books from the Huth, the Hoe, the Britwell and other famous Libraries. (Catalogue No. 19). Pp. 208. (Newcastle-on-Tyne: William H. Robinson.)

## Diary of Societies.

## FRIDAY, MARCH 30.

- INSTITUTION OF NAVAL ARCHITECTS (at Royal Society of Arts), at 11 A.M.—Lt.-Col. V. C. Richmond: Some Modern Developments in Rigid Airship Construction.—G. S. Baker and J. L. Kent: Experiments on the Propulsion of a Single-Screw Ship Model.—At 3.—W. G. A. Perring: The Vortex Theory of Propellers and its Application to the Wake Conditions existing behind a Ship.—J. Tutin: Cavitation.—J. L. Taylor: Statistical Analysis of Voyage Abstracts.
- DIESEL ENGINE USERS' ASSOCIATION (at Caxton Hall, Westminster), at 8.—D. Brownlie: Liquid Fuel from Coal.
- INSTITUTION OF LOCOMOTIVE ENGINEERS (Manchester Centre) (at College of Technology, Manchester), at 7.—W. G. Smith: Some Features of the Mechanical and Electrical Equipment of the Port of Manchester.
- INSTITUTION OF MECHANICAL ENGINEERS (Informal Meeting), at 7.—J. L. Hodgson and others: Discussion on The Problem of Utilising the Earth's Internal Heat.
- INSTITUTION OF ELECTRICAL ENGINEERS (North-Eastern Students' Section) (at Lighting Service Bureau, Newcastle-upon-Tyne), at 7.15.—Annual General Meeting.
- JUNIOR INSTITUTION OF ENGINEERS (Informal Meeting), at 7.30.—C. F. Adams: Locomotive Maintenance.
- GEOLOGISTS' ASSOCIATION (at University College), at 7.30.—A. G. Davis: The Geology of the Clapham-Morden Railway Extension.—Miss Helen M. Muir-Wood: A New Brachiopod, *Discinisa ferroviae*, from the Woolwich Beds.—E. M. Venables: The London Clay of Bognor.
- INSTITUTE OF METALS (Sheffield Local Section) (in Non-Ferrous Section, Applied Science Department, Sheffield University), at 7.30.—Dr. W. H. Hatfield: Non-Ferrous Metals in relation to Ferrous Metallurgy.
- INSTITUTION OF WELDING ENGINEERS (at Caxton Hall, Westminster), at 7.30.—W. Steele: Bronze Welding.
- ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Sir Ernest Rutherford: Radioactive Atoms and their Structure.

## SATURDAY, MARCH 31.

- ROYAL INSTITUTION OF GREAT BRITAIN, at 8.—Sir Ernest Rutherford: The Transformation of Matter (IV.).
- NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS (Associates and Students' Section) (at Neville Hall, Newcastle-upon-Tyne), at 3.—B. E. Houle: The Installation of a Booster Fan.
- MONDAY, APRIL 2.
- VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—A. H. Forbes: Science in the Book of Ecclesiastes.
- ROYAL INSTITUTION OF GREAT BRITAIN, at 5.—General Meeting.
- SOCIETY OF ENGINEERS (at Geological Society), at 6.—R. W. A. Brewer: Air Cooled Radial Engines.
- INSTITUTION OF AUTOMOBILE ENGINEERS (Western Centre) (at Merchant Venturers' Technical College, Bristol), at 6.45.—J. N. Tait: Mixture Distribution in Multi-Cylinder Engines.
- ROYAL INSTITUTE OF BRITISH ARCHITECTS, at 8.—Dr. H. Muthesius: Modern German Architecture.
- SOCIETY OF CHEMICAL INDUSTRY (London Section) (at Chemical Society), at 8.—C. D. Adams: The English Beet Sugar Industry.
- SURVEYORS' INSTITUTION (at Institution of Civil Engineers), at 8.—C. Dampier-Whetham: Agricultural Depression: its Causes and Possible Cures.
- ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 8.30.—A. C. Hardy: The Work of the R.R.S. *Discovery* in the Falkland Islands Dependencies.
- SOCIETY OF CHEMICAL INDUSTRY (Yorkshire Section) (at Leeds).—Annual General Meeting.

## TUESDAY, APRIL 3.

- INSTITUTION OF PETROLEUM TECHNOLOGISTS (at Royal Society of Arts), at 5.30.—Dr. A. Wade: The Oil Well and Later Developments at Hardstoft, Derbyshire.
- ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—Miss E. M. Brown: Exhibition of a Fluke (*Microcotyle alcedinis*) from the Gills of the Sea-Bream *Pagellus centrodontus*.—C. R. S. Pitman: (1) Notes on a Young Pangolin captured in January 1928; (2) Nkosi Island and its Sitatunga.—Dr. R. Gurney: Some Copepoda from Tanganyika collected by Mr. S. R. B. Pask.—Cambridge Suez Canal Expedition Reports:—(a) Prof. A. Palombi: Report of Turbellaria.—(b) Dr. A. Schellenberg: Report on the Amphipoda.—(c) F. A. Potts: Report on the Sedentary Polychæts.
- INSTITUTION OF CIVIL ENGINEERS, at 6.
- INSTITUTION OF ELECTRICAL ENGINEERS (North Midland Centre) (at Hotel Metropole, Leeds), at 7.—Annual General Meeting.
- INSTITUTION OF ELECTRICAL ENGINEERS (North-Western Centre) (at Engineers' Club, Manchester), at 7.—Annual General Meeting.—H. B. Poynder: Some Practical Considerations in the Design of Automatic Equipments for Heavy Traction Substations.
- ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Pictorial Group), at 7.—F. H. Evans: Westminster Abbey.
- NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (Middlesbrough Branch) (at Cleveland Scientific and Technical Institution, Middlesbrough), at 7.30.
- INSTITUTION OF AUTOMOBILE ENGINEERS (at Royal Society of Arts), at 7.45.—E. A. Watson: The Electrical Characteristics of Spark Gap and Sparking Plug.
- ROYAL SOCIETY OF MEDICINE (Orthopaedics Section), at 8.30.—Dr. C. Scudder: The Treatment of Recent Fractures by Operation.
- INSTITUTION OF MECHANICAL ENGINEERS (Swansea Branch).—G. A. V. Russell: Reversing Blooming Mill Practice.

## WEDNESDAY, APRIL 4.

- GEOLOGICAL SOCIETY OF LONDON, at 5.30.—Dr. G. W. Tyrrell: The Analcite-Syenites and Associated Rocks of Ayrshire.—Dr. J. Parkinson: The Pleistocene History of Western Iuchivacoa (Venezuela).—A. Tindall Hopwood: *Gyrinodon quus-us*, a New Genus and Species of Toxodont from Western Buchivacoa (Venezuela).
- INSTITUTION OF HEATING AND VENTILATING ENGINEERS (at Gas Light and Coke Company, Watson House, Nine Elms, S.W.8), at 5.30.—J. G. Clark: Demonstrations of Method of Assessing the Radiant Efficiency of Gas Fires.—Methods of Examining Materials of all kinds used in Gas Supply.—Testing of Gas Fittings for Soundness, Weight, and Quality.—The Testing of Wrought Iron Fittings for Soundness and Quality.—Methods of Ventilating Gas Appliances and of dealing with Adverse Winds.—Methods used for instructing the Various Sections of the Staff of the Gas Sales Department.—The Use of Special Pipes for Use with Gas Fires, etc.
- INSTITUTION OF ELECTRICAL ENGINEERS (Wireless Section), at 6.—Prof. E. V. Appleton: The Study of Signal Fading (The Work of the Radio Research Station at Peterborough).
- INSTITUTION OF ELECTRICAL ENGINEERS (Tees-Side Sub-Centre) (at Cleveland Technical Institute, Middlesbrough), at 7.—D. S. Munro: Modern Electric Wiring, particularly as applied to Small Houses.
- SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS (at Chemical Society), at 8.—J. Evans and T. E. Wallis: Coffee Parchment as an Adulterant of Bran and Sharps.—W. B. Adam: Determination of the Colour-producing Constituents of the Cacao Bean.—Dr. A. F. Etheridge: Determination of Vanadium in Steel.—S. G. Clarke: Colorimetric Determination of Antimony and its Separation from Tin.—Dr. A. Riad: Determination of Carbon Dioxide in Soils.
- ROYAL MICROSCOPICAL SOCIETY (Biological Section).

## PUBLIC LECTURES.

## MONDAY, APRIL 2.

- GREENHAM COLLEGE, at 6.—G. P. Bailey: Modern Science and Daily Life: Summary and Some Outstanding Problems.

## WEDNESDAY, APRIL 4.

- MEDICAL SCHOOL, LEEDS, at 3.30.—Prof. G. E. Gask: Radium in the Treatment of Malignant Disease.