

VIENNA.

Academy of Sciences, July 5.—E. Hartmann and J. Zellner: The chemistry of the higher fungi. (19) *Polyporus pinicola*. An ally of the larch fungus containing a dozen different compounds.—N. Fröschl and J. Zellner: The chemistry of the higher fungi. (20) *Omphalia Campanella*, *Marasmius Scorodonius*, *Boletus cavipes*, *Calocera viscosa*.—J. Zellner: Contributions to the comparative chemistry of plants. (21) Chemistry of plants with latex.—J. Pollak and F. v. Meissner: The constitution of the disulpho-acids of meta-xylol.—J. Pollak and E. Riess: Oxy-thio-phenols.—E. Riess: The oxidation products of 4, 4-dichlor-2, 2-dinitro-diphenyl-sulphide and disulphide.—K. Brunner: Determination of the constitution of β -resorci-dicarboxylic acid.—A. Kohaut: Thermo-electric forces in wires partially covered with another metal.—F. Bartl: The compressibility of liquids. A formula is proposed which seems to connect the molecular weight, the density and the number of atoms in the molecule with the compressibility; also a table showing observed and calculated results for 25 different liquids, including mercury, ether, alcohol, and water.—F. Raaz: The electric conductivity of lithium silicates in the solid state. In contrast to other silicates, the lithium silicates show a marked conductivity at higher temperatures, and the orthosilicate a greater conductivity than the meta-silicate.

Official Publications Received.

BRITISH.

Air Ministry: Aeronautical Research Committee. Reports and Memoranda. No. 1151 (Ae. 317): The Characteristics of a Karman Vortex Street in a Channel of Finite Breadth. By H. Glauert. (T. 2573.) Pp. 14+1 plate. (London: H.M. Stationery Office.) 9d. net.

The Calendar of the Pharmaceutical Society of Great Britain 1928-1929. Pp. 242. (London.) 3s. 6d.

Madras Fisheries Department. Administration Report for the Year 1926-27. By Dr. B. Sundara Raj. (Report No. 1 of 1928, Madras Fisheries Bulletin, Vol. 22.) Pp. iii+99+3 plates. (Madras: Government Press.) 1 rupee.

New Zealand. Department of Lands and Survey: Scenery-Preservation. Report for the Year ended 31st March 1928, together with Statement of Accounts and Schedule of Lands acquired and reserved during the Year under the Scenery Preservation Act. Pp. 12+3 plates. (Wellington, N.Z.: W. A. G. Skinner.) 9d.

Public Library, Museum and Art Gallery of South Australia. Records of the South Australian Museum. Vol. 4, No. 1. Pp. 144. (Adelaide.) 10s. 6d.

Government of the Gold Coast. Report on the Survey Department for the Period April 1927-March 1928. Pp. 31+3 plates. (Accra: Colonial Secretariat; London: The Crown Agents for the Colonies.) 3s.

The Kent Incorporated Society for Promoting Experiments in Horticulture. Annual Report (Fourteenth and Fifteenth Years) 1926 and 1927. Supplement 2. Pp. 171+29 plates. (East Malling: East Malling Research Station.) 5s. 6d.

Commonwealth of Australia: Council for Scientific and Industrial Research. Pamphlet No. 8: Methods for the Examination of Soils. By Prof. J. A. Prescott and C. S. Piper. Pp. 52. Bulletin No. 36: Kimberley Horse Disease (Walk-about Disease). By D. Murnane and Prof. A. J. Ewart. Pp. 61. (Melbourne: H. J. Green.)

The Royal Aeronautical Society, with which is incorporated the Institution of Aeronautical Engineers. List of Members. Pp. 55. (London.)

British Cast Iron Research Association. Seventh Annual Report for the Year ending June 30th, 1928. Pp. 24. (Birmingham.)

Empire Grown Sisal and its Importance to the Cordage Manufacturer: Memorandum prepared by the Imperial Institute with the co-operation of its Advisory Committee on Vegetable Fibres, and issued by the Empire Marketing Board. (E.M.B. 10.) Pp. 25. (London: H.M. Stationery Office.) 6d. net.

The Scientific Proceedings of the Royal Dublin Society. Vol. 19 (N.S.), No. 11: The Action of Aromatic Amines on Nitric Esters. By Dr. Hugh Ryan and Michael T. Casey. Pp. 101-111. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s.

FOREIGN.

Det Kongelige Departement for Handel, Sjøfart, Industri, Handverk og Fiskeri: Norges Svalbard-og Ishavs-Undersøkelser. Skrifter om Svalbard og Ishavet. Nr. 13: The Micromycetes of Svalbard. By J. Lind. Pp. 61+3 plates. 6.00 kr. Nr. 15: Geology of Bear Island, with special reference to the Coal Deposits, and with an Account of the History of the Island. By Gunnar Horn and Anders K. Orvin. Pp. xi+152+10 plates. 15.00 kr. Nr. 16: Déterminations astronomiques pour Norges Geografiske Opmåling. Par Hans S. Jøelstrup. Pp. 28. 2.00 kr. Nr. 17: Beiträge zur Kenntnis der Kohle von Svalbard (Spitzbergen und der Bäreninsel). Von Gunnar Horn. Pp. 60+5 Tafeln. 5.50 kr. (Oslo: Jacob Dybwad.)

No. 3083, Vol. 122]

Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 80. Agalines and Allies in North America, I. By Francis W. Pennell. Pp. 339-449. (Philadelphia, Pa.)

Hamburger Sternwarte in Bergedorf. Index der Sternörter 1900-1925. Herausgegeben von R. Schorr und W. Kruse. Band 1: Der nördliche Sternhimmel. Pp. ii+308. Band 2: Der südliche Sternhimmel. Pp. ii+291. (Bergedorf.)

Hamburger Sternwarte in Bergedorf. Erstes Bergedorfer Sternverzeichnis 1925-0 enthaltend die mittleren Örter von 4983 Sternen nach Beobachtungen am Repsoldschen 19 cm.-Meridiankreis in den Jahren 1913 bis 1926. Von Dr. Franz Dolberg. Pp. xxviii+108+2 Tafeln. (Bergedorf.)

Japanese Journal of Astronomy and Geophysics: Transactions and Abstracts. Vol. 6, No. 1. Pp. iv+69+37. Japanese Journal of Geology and Geography: Transactions and Abstracts. Vol. 6, Nos. 1-2. Pp. ii+62+7+12 plates. (Tokyo: National Research Council of Japan.)

Argeologiese Navorsing van die Nasionale Museum, Bloemfontein. Deel 1. Eerste Stuk: Die Koningse Kultuur. 1: Die Koningse Industrie. Deur Dr. Ir. E. C. N. van Hoepen. Pp. 11+4 plates. (Bloemfontein.)

Department of Commerce: Bureau of Standards. Bureau of Standards Journal of Research. Vol. 1, No. 4, October. Pp. 487-684. 25 cents. Research Paper No. 18: Mutual Inductance of any Two Circles. By Chester Snow. Pp. 531-542. 5 cents. Research Paper No. 22: The International Temperature Scale. By George K. Burgess. Pp. 635-640. 5 cents. Research Paper No. 23: Tables of Theoretical Zeeman Effects. By C. C. Kiess and W. F. Meggers. Pp. 641-684. 15 cents. (Washington, D.C.: Government Printing Office.)

New York Academy of Sciences. Scientific Survey of Porto Rico and the Virgin Islands. Vol. 7, Part 3: Paleobotany of Porto Rico. By Arthur Hollick. Pp. ii+177-393+plates 61-88. (New York City.)

Department of Commerce: Bureau of Standards. Bureau of Standards Journal of Research. Vol. 1, No. 5, November. Pp. 685-866. (Washington, D.C.: Government Printing Office.) 25 cents.

Diary of Societies.

FRIDAY, NOVEMBER 30.

TEXTILE INSTITUTE (Manchester), at 1.15.—E. E. Canney: Rational Development in the Organisation of the Cotton Industry.

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS (Associates' and Students' Section) (Newcastle-upon-Tyne), at 2.30.—J. H. M. Cragg: Notes on an Electric Heading Machine.—Papers open for discussion:—Bore-holes and their Purposes, W. S. Armstrong; Diamond Boring applied to Tapping Drowned Areas Underground, F. E. Smyth.

ROYAL SOCIETY (Anniversary Meeting), at 4.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Prof. W. E. Dalby: The Possible Vibration of a Ship's Hull under the Action of an Unbalanced Engine (Thomas Lowe Gray Lecture).

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (at Mining Institute, Newcastle-upon-Tyne), at 6.—Dr. E. V. Telfer: Frictional Resistance and Ship Resistance Similarity.

INSTITUTE OF TRANSPORT (Manchester, Liverpool, and District Section) (at Manchester), at 6.30.—J. F. Leeming: Civil Air Transport.

ROYAL SANITARY INSTITUTE (at Town Hall, Manchester), at 7.—Dr. G. S. Coleman: The Training of a Sanitary Inspector.—F. W. Platt: Some Aspects of the Housing Problem.

ENGINEERING AND SCIENTIFIC CLUB (Wolverhampton), at 7.—Prof. D. Smith: Cutting Tools, their Treatment and Performance.

TEXTILE INSTITUTE (jointly with Leigh Municipal College Textile Section) (at Leigh), at 7.15.—W. Bailey: Various Methods of Winding Artificial Silk Yarns.

JUNIOR INSTITUTION OF ENGINEERS (Informal Meeting), at 7.30.—C. W. Harvey: The Manufacture of Decorative Metal Work.

INSTITUTION OF PRODUCTION ENGINEERS (at 83 Pall Mall), at 7.30.—Dr. G. H. Miles: Psychology as an Aid to Production.

INSTITUTION OF AUTOMOBILE ENGINEERS (Scottish Graduates' Branch) (at 51 West Regent Street, Glasgow), at 8.—W. P. Kirkwood: Brakes.

ROYAL AERONAUTICAL SOCIETY (Yeovil Branch).—W. Lind-Jackson: Napier Aero Engines.

SATURDAY, DECEMBER 1.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Dr. W. C. Whittaker: The Violin Sonatas of William Young (17th Century).

MONDAY, DECEMBER 3.

ROYAL SOCIETY OF ARTS (Indian Meeting), at 4.30.—Sir James MacKenna: The Sugar Industry of India.

ROYAL SOCIETY OF EDINBURGH, at 4.30.—Dr. T. A. Stephenson: Contribution to Actinian Morphology: the Genera *Phellia* and *Sagaritia*.—Miss S. M. Manton: On Some Points in the Anatomy and Habits of the Lophogastrid Crustacea.—Prof. H. Graham Cannon and Miss S. M. Manton: On the Feeding Mechanism of the Syncarid Crustacea.—B. P. Wiesner and Prof. F. A. E. Crow: The Preparation of ρ Factors: their Physiological Action upon the Immature, Mature, and Senile Gonad.

VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—Dr. J. A. Fleming: Matter, Energy, Radiation, Life, and Mind.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.—General Meeting.

INSTITUTION OF ELECTRICAL ENGINEERS (South Midland Centre) (at University, Birmingham), at 7.—F. H. Rosencrans: Practice and Progress in Combustion of Coal as applied to Steam Generation.

SOCIETY OF CHEMICAL INDUSTRY (Yorkshire Section) (at Leeds), at 7.15.—Dr. H. W. Davies and Prof. B. A. McSwiney: Poisoning and Disease in Industry. (1) Carbon Monoxide Poisoning.

HUNFRIAN SOCIETY OF LONDON, at 7.30.—C. S. Lane-Roberts and A. McAlister: Discussion on The Artificial Termination of Pregnancy.

EUGENICS SOCIETY (at Linnean Society), at 8.—Dr. H. Campbell, Dr. Ryle, and others: Discussion on Public Health and the C's.

ROYAL GEOGRAPHICAL SOCIETY (at Eolian Hall), at 8.30.—Capt. B. S. Thomas: The South-East Borderland of the Rub 'Al Khali.

SOCIETY OF CHEMICAL INDUSTRY (London Section).—Dr. L. A. Jordan: Scientific Aspects of Paint Technology.