

of 100° C. for the moist combustion and a means of burning the carbon monoxide always produced.—**E. Brumpt**: The identity of the genera *Grahamella* and *Bartonella*.—**Georges Blanc and J. Caminopetros**: Experiments made in Greece on the mode of transmission of dengue. Attention is directed to the fact that the word 'dengue' has been applied to two separate diseases. The mosquito *Stegomyia* is infected by the disease and can transmit it in the usual way; mosquitoes of the genus *Culex* do not pass on the infection by stinging.—**Et. Burnet, P. Durand, and D. Olmer**: Attempts at the transmission of Marseilles exanthematic fever by lice. Attempts to infect apes through the medium of lice gave negative results.

Official Publications Received.

BRITISH.

Madras Agricultural Department. Year Book, 1927. Pp. ii+48+5 plates. 10 annas. Report on the Operations of the Department of Agriculture, Madras Presidency, for the Year 1927-28. Pp. ii+103+4+6 plates. 1 rupee. Bulletin No. 92: Mosaic Disease of Sugar Cane. By Rudolph D. Anstead. Pp. 13+2 plates. 6 annas. Bulletin No. 93: Cultivation of Plantains on Wet Lands in the Godavari Delta. Pp. ii+8+1 plate. 2 annas. (Madras: Government Press.)

South Australia: Department of Mines. Mining Review for the Half-Year ended June 30th, 1928. (No. 48.) Pp. 70+9 plates. (Adelaide: Harrison Weir.)

Tide Tables for the Eastern Coasts of Canada for the Year 1929: including the River and Gulf of St. Lawrence, the Atlantic Coast, the Bay of Fundy, Northumberland and Cabot Straits; and Information on Currents; in addition to Tide Tables for New York and Boston, U.S.A. (Thirty-third Year of Issue.) Pp. 90. (Ottawa: F. A. Acland.)

Transactions of the Geological Society of Glasgow. Vol. 18, Part 2, 1927-1928. Pp. 247-300. (Glasgow.) 7s. 6d.

City of Leicester Museum and Art Gallery. Twenty-fourth Report to the City Council, 1st April 1927 to 31st March 1928. Pp. 24. (Leicester.)

London School of Hygiene and Tropical Medicine. Report on the Work of the School for the year ended July 31st, 1928. Pp. 32. (London.)

FOREIGN.

University of Illinois Engineering Experiment Station. Bulletin No. 185: A Study of the Failure of Concrete under combined Compressive Stresses. By Prof. Frank E. Richart, Anton Brandtzaeg and Rex L. Brown. Pp. 104. 55 cents. Bulletin No. 186: Heat Transfer in Ammonia Condensers, Part 2. By Prof. Alonzo P. Kratz, Prof. Horace J. Macintire and Richard E. Gould. Pp. 28. 20 cents. (Urbana, Ill.)

New York Academy of Sciences. Scientific Survey of Porto Rico and the Virgin Islands. Vol. 10, Part 1: Amphibians and Land Reptiles of Porto Rico, with a List of those reported from the Virgin Islands. By Karl Patterson Schmidt. Pp. 160+4 plates. (New York City.)

Department of the Interior: Bureau of Education. Bulletin, 1928, No. 14: Land-Grant Colleges and Universities, Year ended June 30, 1927. By Walter J. Greenleaf. Pp. v+77. (Washington, D.C.: Government Printing Office.) 15 cents.

Japanese Journal of Physics: Transactions and Abstracts. Vol. 5, No. 1. Pp. 66+14+2 plates. (Tokyo: National Research Council of Japan.)

Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 80. Land Shells of Tortuga Island, Haiti, and a new Haitian Oleacina, by Henry A. Pilsbry and Edward G. Vanatta; Review of the Species of Lucidella belonging to the Subgenus Poesniella (Helicinidae) of Haiti and Santo Domingo, by Henry A. Pilsbry. Pp. 475-482+plate 27. (Philadelphia, Pa.)

CATALOGUES, ETC.

Rare Books. (Catalogue No. 23.) Pp. 58. (Newcastle-on-Tyne: William H. Robinson.)

Calendar for 1929. (Newcastle-on-Tyne: C. A. Parsons and Co., Ltd.)

Nickel Steels, Series A, No. 2: The Properties and Applications of Invar and related Alloys. By C. E. Guillaume. Translated by R. Rengert. Pp. 8. (London: The Bureau of Information on Nickel, Ltd.)

Calendar for 1929. (London: Cambridge Instrument Co., Ltd.)

Calendar for 1929. (London: The Chemical Trade Journal.)

Récents publications médicales. Pp. 64. (Paris: Masson et Cie.)

Diary of Societies.

FRIDAY, JANUARY 11.

ROYAL ASTRONOMICAL SOCIETY, at 5.—**T. Roys**: A Very High Prominence on Nov. 19, 1928.—**J. M. Baldwin**: Alignment Chart Connecting Position Angle and Distance of the Apex of the Sun's Way and Galactic Co-ordinates with Equatorial Co-ordinates.

PHILOLOGICAL SOCIETY (at University College), at 5.30.—**L. C. Wharton**: Dialect Developments.

MALACOLOGICAL SOCIETY OF LONDON (in Zoological Department, University College), at 6.—**E. Ashby**: Taxonomic Value of Characters in the Order Polyplacophora.—**C. Oldham**: *Cepaea hortensis* Mull. and *Arianta arbustorum* L. on Blown Sand.—**Dr. H. Engel**: *Aplysia (Tethys) dactylometa* Rang, a Circumtropic Species.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (in Mining Institute, Newcastle-upon-Tyne), at 6.—**W. J. Drummond**: Coal used in its Raw State.—**Dr. W. T. K. Braunholz**: Fuels obtained by the Treatment of Coal.

INSTITUTION OF ELECTRICAL ENGINEERS (London Students' Section), at 6.15.—**J. A. H. Lloyd**: Telephone Repeaters.

SOCIETY OF CHEMICAL INDUSTRY (Manchester Section) (at Engineers' Club, Manchester), at 7.—**Dr. F. C. Wood**: Recent Progress in the Study of the Chemical Reactions of Cellulose.—**N. S. A. Humphries**: The Efficiency of the Present Day Finishing Senter.—**F. Schofield**: A New Oxygen Carrier for Dyeing and Printing Processes.—**Dr. G. N. Burkhardt and H. Wood**: The Nitro-Aryl-Sulphuric Acids and their Reduction Products.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—**F. E. Webb**: Developments in Spraying Apparatus.

BLACKBURN TEXTILE SOCIETY (at Blackburn Technical College), at 7.30.—**Dr. P. Bean**: The Dyeing of Artificial Silk.

KEIGHLEY TEXTILE SOCIETY (at Kiosk Café, Keighley), at 7.30.—Lecture on Artificial Silk.

SOCIETY OF CHEMICAL INDUSTRY (South Wales Section) (at Thomas' Café, Swansea), at 7.30.—**A. Grounds**: Preparation of Coal for the Market.

SOCIETY OF CHEMICAL INDUSTRY (Chemical Engineering Group) (at Royal Society of Arts), at 8.—**Prof. B. P. Haigh**: The Relative Safeties of Mild and High-Tensile Alloyed Steels under Alternating and Pulsating Stresses.

ROYAL SOCIETY OF MEDICINE (Ophthalmology Section), at 8.30.—**M. L. Hepburn**: An Attempt to Classify (Pathologically) the Various Fundus Pictures in Diseases of the Choroid.—**M. S. Mayou**: Juvenile Glaucoma.

MONDAY, JANUARY 14.

ROYAL GEOGRAPHICAL SOCIETY (at Lowther Lodge), at 5.—**Col. Sir Gerald Lenox-Conyngham**: The Cambridge Pendulums for Gravity Survey.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—**Sir Arthur Keith**: A Sketch of the Present State of Knowledge regarding the Evolution of the Brain in Higher Primates.

INSTITUTION OF AUTOMOBILE ENGINEERS (Birmingham Centre) (at Queen's Hotel, Birmingham), at 7.—**Dr. F. W. Lanchester**: Coil Ignition.

INSTITUTION OF AUTOMOBILE ENGINEERS (Graduates' Meeting) (at Loughborough College), at 7.—**E. C. Thompson**: Purchasing.

INSTITUTION OF ELECTRICAL ENGINEERS (North-Eastern Centre) (at Armstrong College), at 7.—**Capt. J. M. Donaldson, J. G. Hines**, and others: Discussion on The Anticipation of Demand, and the Economic Selection, Provision, and Layout of Plant.

INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—**Major A. Jenkin** and others: Discussion on Electric Trolley Omnibuses.

CERAMIC SOCIETY (at North Staffordshire Technical College, Stoke-on-Trent), at 7.30.—**G. W. S. Brewer**: Pre-wheel Pottery—Descriptive of Iron Age Remains from Cleeve Hill, Cheltenham.—**K. Silk and N. D. Wood**: The Comparative Effects on Earthenware Slip of Varying Soda-silica Ratios in Silicate of Soda.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS (Associate Members' and Graduates' Branch) (London and District) (at Borough Polytechnic), at 7.30.—**A. T. Henly**: Timber Drying and Seasoning.

HUNTERIAN SOCIETY OF LONDON, at 7.30.—**Prof. Putti**: Lecture.

INSTITUTE OF METALS (Scottish Local Section) (at Institution of Engineers and Shipbuilders in Scotland, 39 Elmbank Crescent, Glasgow), at 7.30.—**A. Spilke**: Recent Developments in the Manufacture of Condenser Tubes.

INSTITUTE OF BREWING (London Section) (at Charing Cross Hotel).—**J. Stewart**: The Malting Barleys of 1928.

TUESDAY, JANUARY 15.

ROYAL SOCIETY OF MEDICINE (Medicine Section), at 5.—**Dr. F. Parkes Weber**: Endocrine Tumours.—**Dr. O. Leyton**: How can we Decide that a Case of Glycosuria Should be Treated?

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—**Dr. F. A. Freeth**: Critical Phenomena in Saturated Solutions (I).

ROYAL SOCIETY OF MEDICINE, at 5.30.—General Meeting.

MINERALOGICAL SOCIETY (at Geological Society of London), at 5.30.—**Prof. A. Holmes and Dr. H. F. Harwood**: The Tholeiite Dikes of the North of England.—**A. Russell**: On the Occurrence of Gold at Hope's Nose, Torquay, Devonshire.

INSTITUTION OF ELECTRICAL ENGINEERS (East Midland Sub-Centre) (at Derby Technical College), at 6.45.—**F. H. Rosencrants**: Practice and Progress in Combustion of Coal as applied to Steam Generation.

INSTITUTION OF ELECTRICAL ENGINEERS (North Midland Centre) (at Hotel Metropole, Leeds), at 7.—**J. L. Carr**: Recent Developments in Electricity Meters, with Particular Reference to those for Special Purposes.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—**J. E. B. Wright**: Rock Climbing in the English Lake District.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS (Associate Members' and Graduates' Branch) (Manchester and District) (at Milton Hall, Manchester), at 7.—**L. Barton**: Ventilation of Institutions and Public Buildings.

INSTITUTE OF METALS (North-East Coast Local Section) (at Armstrong College, Newcastle-upon-Tyne), at 7.30.—**R. Dowson**: Some Aspects of Steam Turbine Development and Application.

BRITISH INSTITUTE OF PHILOSOPHICAL STUDIES (at Royal Society of Arts), at 8.15.—**Roger Fry**: Representation in Art (Lecture).

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.30.—**Prof. R. R. Gates**: Studies of Eskimos and Indians in the Canadian Arctic.

INSTITUTION OF MECHANICAL ENGINEERS (Swansea Branch).—**J. W. Burr**: The Electrification of a Small Railway.

WEDNESDAY, JANUARY 16.

SOCIETY OF GLASS TECHNOLOGY (at Manchester), at 2.30.

ROYAL SOCIETY OF MEDICINE (Surgery): Sub-Section of Proctology), at 5.—Clinical Pathological Meeting.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—**Sir Arthur Keith**: The Growth of the Human Brain, and a Discussion as to the Significance of its Mass.

INSTITUTION OF CIVIL ENGINEERS (Informal Meeting), at 6.—**H. H. Dalrymple-Hay**: Merits and Demerits of Alternative Methods of taking Water for Modern Power-Stations from Tidal Waters.

INSTITUTION OF ELECTRICAL ENGINEERS (Mersey and North Wales (Liverpool) Centre) (jointly with Liverpool Engineering Society) (at Liverpool), at 7.