

## Official Publications Received.

## BRITISH.

Canterbury College (University of New Zealand). Records of the Canterbury Museum. Vol. 3, No. 2, 14th December. Pp. 83-140+plates 18-23. (Christchurch, N.Z.)

Publications of the South African Institute for Medical Research. No. 22: A Mosquito Survey of certain Parts of South Africa, with special reference to the Carriers of Malaria and their Control. (Part 1.) By Dr. Alexander Ingram and Botha de Meillon. Pp. 81+15 plates. (Johannesburg.)

Nyasaland Protectorate. Annual Report of the Department of Agriculture, 1926. Pp. 26. (Zomba: Government Printer.)

The Empire Marketing Board and the Home Producer. Pp. 12. (London: Empire Marketing Board.)

The Journal of the Quekett Microscopical Club. Edited by W. S. Warton. Ser. 2, Vol. 15, No. 93, November. Pp. x+289-374+xxx+xi. (London: Williams and Norgate, Ltd.) 8s. 6d. net.

The Scientific Proceedings of the Royal Dublin Society. Vol. 18, N.S., Nos. 43-47. 43: Comment on an Article by James Wilson on "The Maintenance Requirements of Cattle on different Rations and at different Rates of Production," with a Note on "Dynamic Action," by E. B. Forbes; 44: The Maintenance Requirements of Cattle, a reply to E. B. Forbes' Criticism, by James Wilson; 45: *Catenaria anguillulæ* as a Parasite of the Ova of *Fasciola hepatica*, by Prof. J. Bayley Butler and J. J. C. Buckley; 46: Some Experiments on feeding Rats with Soya Beans and other Materials, by D. T. Barry and J. Freud; 47: The Formation of Vortices behind a Cylinder moving through a Fluid, by E. T. S. Walton. Pp. 495-534+plates 28-27. (Dublin: Royal Dublin Society; London: Williams and Norgate, Ltd.) 4s.

British Guiana: Combined Court, Annual Session, 1927. Report on the Preliminary Geological Survey of the Potaro-Ireng District of British Guiana. By Smith Bracewell. Pp. iii+60. (Georgetown, Demerara: Department of Lands and Mines.)

## FOREIGN.

Annual Report of the Director, United States Coast and Geodetic Survey, to the Secretary of Commerce for the Fiscal Year ended June 30, 1927. Pp. iv+47+15 maps. (Washington, D.C.: Government Printing Office.) 50 cents.

Department of Commerce: U.S. Coast and Geodetic Survey. Serial No. 394: Results of Observations made at the United States Coast and Geodetic Survey Magnetic Observatory at Cheltenham, Md., in 1923 and 1924. By Daniel L. Hazarl. Pp. ii+111+10 charts. (Washington, D.C.: Government Printing Office.) 20 cents.

Report of the Acting Secretary of the Smithsonian Institution for the Year ending June 30, 1927. (Publication 2923.) Pp. vi+131. (Washington, D.C.: Government Printing Office.)

Fiftieth Annual Report of the Secretary of Commerce, 1927. Pp. xli+310. (Washington, D.C.: Government Printing Office.) 30 cents.

Treasury Department, United States Public Health Service. Studies on Oxidation-Reduction. 11: Potentiometric and Spectrophotometric Studies of Bindschedler's Green and Toluyene Blue. By Max Phillips, W. Mansfield Clark and Barnett Cohen. Pp. iii+36. 10 cents. 12: A Note on the Schardinger Reaction (in reply to Kodama). By W. Mansfield Clark, Barnett Cohen and M. X. Sullivan. Pp. ii+10. 5 cents. (Washington, D.C.: Government Printing Office.)

State of Connecticut. Public Document No. 24: Fiftieth Report of the Connecticut Agricultural Experiment Station, New Haven, Conn., for the Year 1926. Pp. xvii+599+18 plates+58T+3 plates+li. (New Haven, Conn.)

## CATALOGUES.

Training Electrical Engineers. Pp. 32. (London: The Electrical Standardizing, Testing and Training Institution, Ltd.)

Catalogue of Botanical Books. (No. 157.) Pp. 56. (London: Dulau and Co., Ltd.)

Catalogue of Books and Journals bearing on the Mathematical, Physical and Chemical Sciences. (No. 301.) Pp. 74. (Cambridge: W. Heffer and Sons, Ltd.)

## Diary of Societies.

## SATURDAY, FEBRUARY 18.

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS (Newcastle-upon-Tyne), at 2.30.—W. Maurice: Electric Mine Lamps and Better Lighting.—Prof. W. M. Thornton: A New Gas Detecting Miners' Electric Lamp.—High Candle-power Lamps will be exhibited and explained by H. Staples on behalf of Prof. R. V. Wheeler.—Papers open for further discussion.—Impressions of the Canadian Empire Mining Congress, by W. C. Carr.—Further Modifications of the Correlation of the Coal-seams of the Northumberland and Durham Coalfield, by Dr. W. Hopkins.

PHYSIOLOGICAL SOCIETY (in Department of Physiology, University, Manchester), at 3.—E. Boyland and A. D. Ritchie: The Adductor Muscles of Pecten.—Prof. A. V. Hill: Recent Myothermic Experiments.—F. W. Lamb and J. V. A. Simpson: Assessment of Schoolboys by Air Force Tests.—F. W. Lamb, E. D. Portman, and G. J. Woolham: Posture Deviations of the Arm and their Reversal.—A. N. Birkett and F. W. Lamb: Balance of Ocular Muscles in Normal Subjects.—C. E. Brunton: Respiratory Responses to Interruption of Breathing and to Inflation.—Dr. J. C. Bramwell and R. Ellis: (a) The Tidal Wave; (b) Some Observations on the Action of Amyl Nitrite.—J. G. Woolham: On Correlations between Pulse and Respiratory Tests.—Dr. G. A. Clark: Pituitrin and Blood-Sugar.—H. E. Magee and B. A. Southgate: A Method for Determining the Effect of Electrolytes in the Lumen of the Surviving Gut on its Movements. (Preliminary Com-

munication.)—B. Finkleman: Vagus Inhibition in its Relation to Ions.—Dr. A. D. Macdonald and E. D. Portman: The Diuretic Principle of Pituitary Extracts.—E. D. McCrea and Dr. A. D. Macdonald: The Action of Drugs on Entogastric Pressure.—Dr. E. C. Hayes: Calcium, Iron, and Phosphorus in Normal and Some Abnormal Brains.—M. M. Croll: Alteration in Weight of the Brain and Some Other Tissues during Formalin Fixation.—H. D. Kay: The Organic Phosphorus of the Erythrocyte.—Prof. R. J. S. McDowall: Class Experiments in Leucocytosis.—I. Berembloom and Dr. B. A. McSwiney: Reaction of Adrenaline with Relation to the H-ion Concentration.—Demonstrations:—Light Production in a Marine Animal (Cypridina), by W. R. Amberson; Apparatus for the Observation and Photography of the Skin Capillaries in Man, by G. L. Brown and F. W. Lamb; An Optical Sphygmograph, by Dr. J. C. Bramwell; Records of Sounds, by Dr. J. C. Bramwell and F. W. Lamb; The Action of Pituitary Extracts on Isolated Blood-Vessels, by E. D. Portman and Dr. A. D. Macdonald; Calcium and Vagus Threshold, by B. Finkleman; Histological Preparations showing the Innervation of Different Parts of the Human and Rabbit's Pituitary, by M. M. Croll; A New Drop-Recorder, by O. Inchley.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—H. C. Colles: Musical London from the Restoration to Handel (1660-1759) (III.)

SOCIETY OF SUPERINTENDENTS OF TUBERCULOSIS INSTITUTIONS (at 122 Harley Street), at 3.—Dr. A. N. Robertson: Open-air Treatment and Meteorological Conditions.

OXFORD UNIVERSITY JUNIOR SCIENTIFIC CLUB (in Departments of Electricity and Comparative Anatomy, Oxford University), at 8.15.—Annual Exhibition.

## MONDAY, FEBRUARY 20.

ROYAL SOCIETY OF EDINBURGH, at 4.30.—E. B. Bailey: Schist Geology: Braemar, Glen Cluny, and Glen Shee.—Dr. H. H. Read: Highland Schists of Middle Deeside.—C. N. Kemp: The X-ray Examination of Coal Sections (Preliminary Note).—To be read by title only.—Dr. E. Henderson: An X-ray Examination of Saturated Dicarboxylic Acids and Amides of the Fatty Acid Series.—W. L. Ferrar: General Derivatives and Integrals.

VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—Prof. T. G. Pinches: The Influence of the Mythology and Heathen Practices of the Canaanites upon the Hebrews.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—C. E. Shattock: Pathological Specimens in the Museum.

INSTITUTION OF MECHANICAL ENGINEERS (Graduates' Section, London), at 6.30.—Informal Discussion on The Relative Importance of Sales, Design, and Works Organisation in Engineering.

INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—L. Emanuel and others: Discussion on 132,000-volt Cables.

INSTITUTION OF ELECTRICAL ENGINEERS (Mersey and North Wales (Liverpool) Centre) (at Liverpool University), at 7.30.—Dr. S. Z. de Ferranti: Electricity in the Service of Man (Faraday Lecture).

RAILWAY CLUB (25 Tottenham Street, S.W.1), at 7.30.—Annual General Meeting.

ROYAL INSTITUTE OF BRITISH ARCHITECTS, at 8.—Prof. A. P. Laurie: Stone Preservation and Decay.

ROYAL SOCIETY OF ARTS, at 8.—Dr. H. Gough: Fatigue Phenomena, with special reference to Single Crystals (Cantor Lectures) (2).

CHEMICAL INDUSTRY CLUB, at 8.—Dr. F. C. Shrubbsall: Mental Deficiency.

ROYAL GEOGRAPHICAL SOCIETY (at Eolian Hall), at 8.30.—G. Watkins: The Cambridge Expedition to Edge Island.

SOCIETY OF CHEMICAL INDUSTRY (Yorkshire Section).—Dr. F. L. Usher and others: Discussion on The Phenomenon of Wetting and its Industrial Significance.

## TUESDAY, FEBRUARY 21.

ROYAL DUBLIN SOCIETY (in Science Room, Ball's Bridge, Dublin), at 4.15.—Rev. H. C. Browne: Stereoscopic Notes.—Dr. J. H. J. Poole: The Measurement of the Current flowing through a Photo-electric Cell by means of a Neon Lamp.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. J. S. Huxley: The Behaviour of Animals (1).

ROYAL STATISTICAL SOCIETY (at Royal Society of Arts), at 5.15.—Dr. T. H. C. Stevenson: The Vital Statistics of Wealth and Poverty.

ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—Hon. Ivor Montague: Exhibition of Photographs of the Moscow Zoological Gardens.—G. C. Robson: Observations on the Oviposition of Octopus.—Prof. D. M. S. Watson: On Some Points in the Structure of Palaeoniscid and Allied Fish.—Oldfield Thomas: The Delacour Exploration of French Indo-China Mammals. II. On Mammals collected during the Winter of 1926-27.—S. Maulik: New Chrysomelid Beetles from India, with a Note on the Scales of Coleoptera.

INSTITUTION OF CIVIL ENGINEERS, at 6.

LONDON NATURAL HISTORY SOCIETY (at Winchester House, E.C.), at 6.30.—L. W. Chubb: Our Common Lands: The Story of their Preservation.

INSTITUTION OF ELECTRICAL ENGINEERS (North Midland Centre) (at Hotel Metropole, Leeds), at 7.—A. Page: Address.

INSTITUTION OF ELECTRICAL ENGINEERS (North-Western Centre) (at College of Technology, Manchester), at 7.—Dr. S. Z. de Ferranti: Electricity in the Service of Man (Faraday Lecture).

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—C. E. Kayser: A Comparison of the Norman Doorways of Yorkshire, Norfolk, and Gloucestershire.

INSTITUTION OF AUTOMOBILE ENGINEERS (Wolverhampton Centre) (at Engineering and Scientific Club, Wolverhampton), at 7.30.—C. R. F. Engelbach: Works Re-organisation to Increase Production.

INSTITUTION OF ELECTRICAL ENGINEERS (Scottish Centre) (jointly with Institution of Post Office Electrical Engineers—Scottish East Centre) (at Freemasons' Hall, Edinburgh), at 7.30.—E. H. Shaughnessy: The Rugby Radio Station.

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND (at 29 Elmbank Crescent, Glasgow), at 7.30.—Dr. R. M. Brown: Fatigue of Metals: Some Effects of Cold Drawing on the Strength and Endurance of Mild Steel.