

## Official Publications Received.

Department of Commerce: Bureau of Standards. Scientific Papers of the Bureau of Standards, No. 475: Visibility of Radiant Energy. By K. S. Gibson and E. P. T. Tyndall. Pp. 131-191. 15 cents. Technologic Papers of the Bureau of Standards, No. 242: Detector for Water Vapor in Closed Pipes. By E. R. Weaver and P. G. Ledig. Pp. 637-644. 5 cents. (Washington: Government Printing Office.)

Department of the Interior: Bureau of Education. Bulletin, 1923, No. 45: Work of the Bureau of Education for the Natives of Alaska. By William Hamilton. Pp. 4. (Washington: Government Printing Office.) 5 cents.

U.S. Department of Agriculture. Farmers' Bulletin No. 1354: The Yellow-Fever Mosquito. By L. O. Howard. Pp. 14. (Washington: Government Printing Office.) 5 cents.

Department of the Interior: United States Geological Survey. Mineral Resources of the United States in 1922 (Preliminary Summary). Introduction by G. F. Laughlin; Statistics assembled by Martha B. Clark. Pp. iv+124a. (Washington: Government Printing Office.)

Department of the Interior: United States Geological Survey. Bulletin 689: Boundaries, Areas, Geographic Centers and Altitudes of the United States and the Several States; with a Brief Record of Important Changes in their Territory. By Edward M. Douglas. Pp. vi+234+7 plates. 60 cents. Bulletin 709: Triangulation and Primary Traverse, 1916-1918. Pp. vi+914+2 plates. 75 cents. Bulletin 739: Mineral Resources of Alaska: Report on Progress of Investigations in 1921. By A. H. Brooks and others. Pp. vi+169+xiv+3 plates. Professional Paper 132-A: Rock Formations in the Colorado Plateau of South-eastern Utah and Northern Arizona. By C. R. Longwell, H. D. Miser, R. C. Moore, Kirk Bryan, and Sidney Paige. Pp. 23+10 plates. (Washington: Government Printing Office.)

Dove Marine Laboratory, Cullercoats, Northumberland. Report for the Year ending June 30th, 1923. Edited by Prof. Alexander Meek. Pp. 151+21 plates. (Cullercoats.) 5s.

The Royal Technical College, Glasgow. Annual Report on the One Hundred and Twenty-seventh Session, adopted at the Annual Meeting of Governors held on the 16th October 1923. Pp. 70. (Glasgow.)

Annalen van de Sterrewacht te Leiden. Deel 13, Stuk 3: Positions of 84 Stars near the North Pole determined with the Meridian Circle of the Observatory in the Years 1877-1885, under the Directorate of Prof. Dr. H. G. van de Sande Bakhuysen. Pp. 63. Deel 14, Stuk 2: Dessins de la voie lactée faites à Athènes par J. Fr. Julius Schmidt dans les années 1864-1876. Pp. 8+4 plates. (Haarlem: Joh. Enschede en Zonen.)

Marconi's Wireless Telegraph Company, Ltd. Report of the Directors and Statement of Accounts for the Year ended 31st December, 1922, to be presented at the Annual General Meeting of the Company, to be held at the Connaught Rooms, Great Queen Street, Kingsway, London, W.C.2, on Monday, the 3rd December, 1923, at 12 o'clock noon. Pp. 12. (London: Marconi House, Strand.)

## Diary of Societies.

## SATURDAY, DECEMBER 1.

GILBERT WHITE FELLOWSHIP (at 6 Queen Square, W.C.1), at 3.—F. R. S. Balfour: Trees and Flowers of the North-West Pacific Coast.

## MONDAY, DECEMBER 3.

ROYAL INSTITUTION, at 5.—General Meeting.  
 SOCIETY OF ENGINEERS, INC. (at Geological Society), at 5.30.—J. W. Gordon: Railway Surveying by Photography.  
 ROYAL SOCIETY OF MEDICINE, at 5.30.—Dr. Strandberg: Treatment of Tuberculosis of the Nose and Throat by Finsen Light Baths: Results.  
 INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—C. M. R. Balbi and others: Discussion on Electrical Apparatus for the Deaf.  
 ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Dr. Dorothy Winch-Nicholson: Some Aspects of Scientific Method.  
 ROYAL SOCIETY OF ARTS, at 8.—Prof. A. F. Barker: Recent Progress in the Wool Industries (Cantor Lecture) (I).  
 INSTITUTION OF THE RUBBER INDUSTRY (London Section) (at Engineers' Club, Coventry Street), at 8.—Major V. Lefebure: Accelerators.  
 SOCIETY OF CHEMICAL INDUSTRY (London Section) (at Chemical Society), at 8.—J. Allen Howe: The Use and Preservation of Building Stone.—J. J. Fox and T. W. Harrison: The Chemical Aspects of Building-Stone Decay.  
 ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 8.30.—Sir Charles Bell: A Year in Lhasa.  
 ROYAL SOCIETY OF MEDICINE (Tropical Diseases and Parasitology Section), at 8.30.—Sir Leonard Rogers and others: Discussion on Sprue and Celiac Disease.

## TUESDAY, DECEMBER 4.

INSTITUTION OF CIVIL ENGINEERS, at 6.  
 INSTITUTE OF MARINE ENGINEERS, INC., at 6.30.—J. H. Anderson: Spontaneous Ignition of Coal.  
 ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—H. Dennis Taylor: The Future of the Cinema; and Photography as an Extension of Vision. (Annual Traill-Taylor Memorial Lecture.)  
 ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—H. Balfour: Observations on the Technology of the Nagas of Eastern Assam.  
 RÖNTGEN SOCIETY (at British Institute of Radiology, 32 Welbeck Street), at 8.15.—Dr. L. G. Heilbron: Modern Radiographical Technique.

## WEDNESDAY, DECEMBER 5.

GEOLOGICAL SOCIETY OF LONDON, at 5.30.—D. J. Farquharson: The Geology of Southern Guernsey.—C. W. Osman: The Geology of the Northern Border of Dartmoor, between Whiddon Down and Butterdon Down.

ROYAL SOCIETY OF MEDICINE (Surgery Section), at 5.30.—Pathological and Clinical Meeting.

INSTITUTION OF ELECTRICAL ENGINEERS (Wireless Section), at 6.—L. B. Turner: The Relation between Damping and Speed in Wireless Reception.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS, INC. (at Engineers' Club), at 7.—A. J. Assheton: Vacuum Steam Heating.

ROYAL MICROSCOPICAL SOCIETY (Biological Section), at 7.30.

SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS (at Chemical Society), at 8.—H. Toms: Crystalline Bromides of Linseed Oil.—M. S. Salomon: The Plea for Standardisation.—H. T. S. Britton: Note on the Estimation of Chromium.—R. L. Andrew: The Colorimetric Estimation of Lead in Cream of Tartar.

ROYAL SOCIETY OF ARTS, at 8.—Dr. A. W. Hill: The Work of the Royal Botanic Gardens, Kew.

ENTOMOLOGICAL SOCIETY OF LONDON, at 8.

## THURSDAY, DECEMBER 6.

ROYAL SOCIETY, at 4.30.—E. G. T. Liddell and Sir Charles Sherrington: Recruitment Type of Reflexes.—G. S. Carter: The Structure and Movements of the Latero-Frontal Cilia of the Gills of *Mytilus*.—*To be read in title only*.—V. B. Wigglesworth and C. E. Woodrow: The Relation between the Phosphate in Blood and Urine.—J. B. S. Haldane, V. B. Wigglesworth, and C. E. Woodrow: (a) The Effect of Reaction Changes on Human Inorganic Metabolism; (b) The Effect of Reaction Changes on Human Carbohydrate and Oxygen Metabolism.—J. A. Campbell: Concerning the Influence of Atmospheric Conditions upon the Pulse Rate and "Oxygen-Debt" after Running.—J. Gray: The Mechanism of Ciliary Movement. IV. The Relation of Ciliary Activity to Oxygen Consumption.

ROYAL SOCIETY OF MEDICINE, at 5.30.—Sir Jagadis C. Bose: Assimilation and Circulation in Plants.

NEWCOMEN SOCIETY (Annual General Meeting) (in Room 13, Caxton Hall), at 5.30.—I. B. Hart: The Dynamics of Leonardo da Vinci.

CHILD-STUDY SOCIETY (at Royal Sanitary Institute), at 6.—L. Brooks: The Beginnings of Geographical Teaching.

CHEMICAL SOCIETY, at 8.—C. K. Ingold: The Additive Formation of Four-membered Rings. Part III. A System of Nomenclature for Heterocyclic Four-membered Rings and the Formation and Properties of some Derivatives of  $\beta$ -Methylenediminoxide.—H. J. S. Sand and E. J. Weeks: The Dependence of Polarisation-Overvoltage on Hydroxyl and Hydrogen Ion Concentration. Part I. Polarisation-Overvoltage of an Antimony Cathode in Aqueous Alkaline Solution.—H. King: Stereoisomerism and Local Anaesthetic Action in the  $\beta$ -Eucaine Group. Resolution of  $\beta$ - and iso- $\beta$ -Eucaine.—A. Green:  $\beta$ -Alizarin. An Isomeric Form of Alizarin.—O. L. Brady and F. P. Dunn: The Isomerism of the Oximes. Part XV: The Supposed Fourth Benzidioxima.—W. E. Garner and F. C. Randall: The Alternation in the Heats of Crystallisation of the Normal Monobasic Fatty Acids.

## FRIDAY, DECEMBER 7.

ROYAL SOCIETY OF ARTS (Indian Section), at 4.30.—W. Foster: The Archives of the Honourable East India Company (Sir George Birdwood Memorial Lecture).

ROYAL ASTRONOMICAL SOCIETY, at 5.—Geophysical Discussion: Gravity Deflections in Great Britain and the Geoid. Chairman, Col. E. M. Jack. Opener, Sir C. F. Close. Other speakers, H. L. P. Jolly, A. R. Hinks, Col. H. L. Crosthwait, Dr. J. W. Evans, and Capt. G. T. McCaw.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Arthur Keith: The Life and Times of William Clift, First Conservator (Thomas Vicary Lecture).

PHILOLOGICAL SOCIETY (at University College), at 8.—C. R. Enock: Euphratean Origin of Man, Language, and Place-Names.

ROYAL SOCIETY OF MEDICINE (Surgery, Ophthalmology, Otolaryngology, Odontology, and Anaesthetics Sections), at 8.30.—Dr. P. Watson-Williams and others: Discussion on The Comparative Value of Cocaine Substitutes.

## PUBLIC LECTURES.

## SATURDAY, DECEMBER 1.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—H. N. Milligan: The Natural History of Dragons.

BIRKBECK COLLEGE, at 6.—Dr. F. H. Hayward: Celebration of the Geologist.

## MONDAY, DECEMBER 3.

LONDON HOSPITAL MEDICAL COLLEGE, at 4.15.—Dr. Gordon Holmes: Some Symptoms of Cerebral Irritation (Schorstein Memorial Lecture).

## TUESDAY, DECEMBER 4.

KING'S COLLEGE, at 5.30.—Miss Hilda D. Oakeley: The Roots of Early Greek Philosophy: (2) Scientific.

## WEDNESDAY, DECEMBER 5.

UNIVERSITY COLLEGE, at 5.30.—W. C. B. Sayers: Library Classification in Modern Life.

## THURSDAY, DECEMBER 6.

KING'S COLLEGE, at 5.30.—Dr. A. R. Pastor: Spain and Europe (League of Nations Union Lecture).

## FRIDAY, DECEMBER 7.

UNIVERSITY COLLEGE, at 5.15.—Prof. Karl Pearson: Eugenics.

## SATURDAY, DECEMBER 8.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—Dr. E. M. Delf: Sunlight and Life.