

Official Publications Received.

Department of the Interior: United States Geological Survey. Forty-fifth Annual Report of the Director of the United States Geological Survey to the Secretary of the Interior for the Fiscal Year ended June 30, 1924. Pp. ii+83+1 plate. (Washington: Government Printing Office.)

Department of the Interior: United States Geological Survey. Bulletin 750-G: Bauxite in Northeastern Mississippi. By Ernest F. Burchard. Pp. ii+101-148. Bulletin 751-D: Geologic Structure of San Juan Canyon and Adjacent Country, Utah. By Hugh D. Miser. Pp. iv+115-155+plates 15-20. Bulletin 751-F: The Ekalaka Lignite Field, Southeastern Montana. By Clyde Max Baner. Pp. iv+231-267+plates 30-34. Bulletin 751-G: Geology and Oil and Gas Prospects of part of Moffat County, Colorado, and Southern Sweetwater County, Wyoming. By Julian D. Sears. Pp. v+269-319+plates 35-37. 20 cents. Bulletin 753: Geology and Oil Resources of a part of Los Angeles and Ventura Counties, California. By William S. W. Kew. Pp. viii+202+17 plates. 50 cents. Bulletin 760-B: The Physical Features of Central Massachusetts. By William C. Alden. Pp. v+13-105+plates 6-22. Bulletin 761: Molybdenum Deposits; a short Review. By Frank L. Hess. Pp. iv+35+10 plates. 15 cents. Bulletin 762: Geology and Ore Deposits of the Rochester District, Nevada. By Adolph Knopf. Pp. ix+78+4 plates. 15 cents. Bulletin 765: Geology of the Region around Lead, South Dakota, and its Bearing on the Homestake Ore Body. By Sidney Paige. Pp. iv+58+11 plates. 20 cents. (Washington: Government Printing Office.)

Department of the Interior: United States Geological Survey. Professional Paper 134: Upper Cretaceous and Tertiary Formations of the Western Part of the San Juan Basin, Colorado, and New Mexico, by John B. Reeside, Jr., and Flora of the Animas Formation, by F. H. Knowlton. Pp. iv+117+19 plates. 40 cents. Professional Paper 135: The Composition of the River and Lake Waters of the United States. By Frank Wigglesworth Clarke. Pp. iv+149. 50 cents. (Washington: Government Printing Office.)

Publications of the United States Naval Observatory. Second Series, Vol. 10, Part 2, Appendix: Total Solar Eclipses of August 30, 1905, and June 8, 1918, with Aviators' Notes on the Total Solar Eclipse of September 10, 1923. Pp. iii+B416+50 plates. (Washington: Government Printing Office.)

Review of Agricultural Operations in India, 1923-24. Pp. vii+152+8 plates. (Calcutta: Government of India Press.) 1.9 rupees; 2s. 9d.

Memoirs of the Department of Agriculture in India. Chemical Series, Vol. 7, No. 5: The Buffer Action of some Burma Soils. By J. Charlton. Pp. iii+101-121. (Calcutta: Thacker, Spink and Co.; London: W. Thacker and Co.) 12 annas; 1s.

Report of the Kodaikanal Observatory for the Year 1924. Pp. ii+4. (Madras: Government Press.) 6 annas.

Imperial Department of Agriculture for the West Indies. Sugar-Cane Experiments in the Leeward Islands: Report on Experiments with varieties of Sugar-Cane conducted in Antigua, St. Kitts-Nevis and Montserrat in the Season 1922-23. Pp. ii+54. (Barbados.) 1s.

The Indian Forest Records. Chemical Series, Vol. 11, Part 5: The Constituents of some Indian Essential Oils. Part 16: Note on the Rate of Oxidation of δ - Δ^3 Carene and other Terpenes in the presence of Catalysts. By Madayar Gopal Rao. Pp. ii+10+7 plates. (Calcutta: Government of India Central Publication Branch.) 12 annas; 1s. 3d.

Imperial Department of Agriculture for the West Indies. Report on the Agricultural Department, Dominica, 1923-24. Pp. iv+35. (Barbados.) 6d.

Records of the Survey of India. Vol. 18 (Supplementary to General Report 1921-22): Annual Reports of Parties and Offices, 1921-22. Prepared under the Direction of Col. C. H. D. Ryder. Pp. iv+132+10 maps. (Dehra Dun: Trigonometrical Survey.) 4 rupees; 8s.

Proceedings of the United States National Museum. Vol. 65, Art. 9: A Revision of the West Indian Coleoptera of the family Buprestidae. By Warren S. Fisher. (No. 2522.) Pp. 207. (Washington: Government Printing Office.)

Proceedings of the Geologists' Association. Edited by A. K. Wells. Vol. 36, Part 1, 1925. Pp. 106+11 plates. (London: Edward Stanford, Ltd.) 5s.

Smithsonian Institution: United States National Museum. Contributions from the United States National Herbarium. Vol. 23, Part 4: Trees and Shrubs of Mexico (Passifloraceae—Scrophulariaceae). By Paul C. Standley. Pp. 849-1312+xxxix. (Washington: Government Printing Office.) 60 cents.

Diary of Societies.

SATURDAY, MAY 23.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Rev. Dr. E. M. Walker: Democracy in the Ancient World (I.).

ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section) (at Brighton), at 3.30.—Dr. D. Forbes: The Climate of Brighton.

MONDAY, MAY 25.

ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section) (at Brighton), at 3.30.—Dr. D. Forbes: The Climate of Brighton.

ROYAL IRISH ACADEMY, at 4.15.

ROYAL SOCIETY OF EDINBURGH, at 4.30.—C. W. Wardlaw: Size in Relation to Internal Morphology. No. 2. The Vascular System of Selaginella.—J. Thomson: The Parasitism of *Cuscuta reflexa*, Roxb.—S. Williams: Some Points in the "Anatomy of Dicksonia."—Dr. A. E. Trueman and Miss Williams: Studies in Ammonites of the Family Echioceratidae.

ROYAL SOCIETY OF MEDICINE (Odontology Section) (Annual General Meeting) (at Royal College of Surgeons of England), at 5.30.—E. W. Fish: Circulation of Lymph in the Dentine (Preliminary Report).

SOCIETY OF GLASS TECHNOLOGY (at Royal Society of Arts), at 7.30.—Prof. W. E. S. Turner: The Nature and Constitution of Glass.—Prof. G. Tammann: On Glasses as Supercooled Liquids.—Dr. F. Eckert: Some Remarks on the Constitution of Glass.—Dr. A. Q. Tool and E. E.

Hill: On the Constitution and Density of Glass.—Prof. H. Le Châtelier: On the Viscosity and Allotropy of Glass.
ROYAL GEOGRAPHICAL SOCIETY (at Aeolian Hall), at 8.30.—Col. C. H. D. Ryder: The Demarcation of the Turco-Persian Boundary in 1914.

TUESDAY, MAY 26.

SOCIETY OF GLASS TECHNOLOGY (at University College), at 2.30.—Sir W. H. Bragg: The Structure of Quartz and Silica.—V. H. Stott: The Viscosity of Glass.—Dr. G. W. Morey and Dr. N. L. Bowen: The Melting Relations of the Soda-Lime-Silica Glasses.—Dr. A. A. Lebedeff: Polymorphic Transformations in Glass.—Dr. G. W. Morey and Dr. R. W. G. Wyckoff: X-ray Studies of Soda-Lime-Silica Glasses.

ROYAL DUBLIN SOCIETY, at 4.15.

LINNEAN SOCIETY OF LONDON, at 5.—Anniversary Meeting.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. R. Whiddington: The Passage of Electricity through Vacuum Tubes (Tyndall Lectures) (II.).

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

BRITISH SOCIETY OF MASTER GLASS-PAINTERS (at Art Workers' Guild, 6 Queen Square, W.C.1), at 6.—Annual General Meeting and Exhibition of Cartoons and Photographs of Stained Glass.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Pictorial Group), at 7.—H. C. Brewer: The Pattern of the Picture.

ROYAL ANTHROPOLOGICAL INSTITUTE (jointly with Eugenics Education Society) (at Royal Anthropological Institute), at 8.30.—Dr. H. F. B. Walker and others: Discussion on Miscegenation in South Africa.

WEDNESDAY, MAY 27.

ROYAL SOCIETY OF ARTS, at 4.30.—Sir Alfred Mond, Bart.: The Unemployment Problem.

ROYAL SOCIETY OF MEDICINE (Comparative Medicine Section) (Annual General Meeting), at 5.—Dr. J. H. Sequeira: Parasitic Affections of the Skin communicated from Animals to Man.

ROYAL MICROSCOPICAL SOCIETY (Industrial Applications Section), at 7.30.—Dr. J. A. Murray: Lecture Demonstration on The Making of Microscopical Preparations. III. Staining.—The Microscope in Soil Microbiology.—G. Thornton: Soil Bacteria; D. W. Cutler: Soil Protozoa; Mrs. B. M. Roach: Soil Algae.—Dr. W. B. Brierley: The Microscope and Plant Pathology.

BRITISH PSYCHOLOGICAL SOCIETY (Medical Section) (at Royal Society of Medicine), at 8.30.—L. S. Penrose: The Relation of the Pleasure-Pain Principle of Freud to the Question of Growth.

THURSDAY, MAY 28.

ROYAL SOCIETY, at 4.30.—R. J. Ludford: (a) Cell Organs during Secretion in the Epididymis; (b) Nuclear Activity in Tissue Cultures.—J. Needham and Dorothy Needham: The Hydrogen Ion Concentration and the Oxidation Reduction Potential of the Cell Interior. A Micro-injection Study.—Dr. F. W. R. Brambell: The Oogenesis of the Fowl (*Gallus Bankiva*).

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. F. O. Bower: The Natural Classification of Ferns as a Study in Evolution (II.).

ROYAL SOCIETY OF MEDICINE (Epidemiology and State Medicine Section) (Annual General Meeting), at 5.30.—Dr. J. Brownlee: The Health of London in the Eighteenth Century.

FRIDAY, MAY 29.

SOCIETY FOR EXPERIMENTAL BIOLOGY (at King's College), at 10 A.M.—Prof. F. G. Donnan: Principles governing Passage through Membranes.—W. Stiles: Problems of Permeability in Plant Cells.—J. A. Hewitt: Absorption from the Intestine.—L. F. J. Harris: Acidimetry, Ampholytes, and Proteins, followed by a discussion by Prof. A. V. Hill, Prof. S. B. Schryver, Prof. W. Ramsden, and others.

SOCIETY FOR EXPERIMENTAL BIOLOGY (at King's College), at 2.—H. Munro Fox: On Chlorocruorin.—E. Stedman: The Oxygen Dissociation Curve of Haemocyanin.—Dr. L. Hogben: Relation of Electrolytes to Invertebrate Muscle.—H. W. Harvey: Some Variable Properties of Sea-water.—W. E. Garner: Molecular Orientation in relation to Muscle Contraction and Nervous Conduction.

SOCIETY OF CHEMICAL INDUSTRY (Chemical Engineering Group) (at Chemical Industry Club), at 8.15.—Annual General Meeting.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Sir Henry Newbolt: Scenery in the Pastoral Poets.

SATURDAY, MAY 30.

SOCIETY FOR EXPERIMENTAL BIOLOGY (at King's College), at 10 A.M.—R. Chambers and P. Reznikoff: Studies on the Plasma Membrane and Physical State of Protoplasm by Micro-dissection and Micro-injection.—C. Shearer: Child's Hypothesis.—J. S. Huxley: Some Problems of Differential Growth.—Dr. W. H. Pearsall: Rates of Growth and Plant Form.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Rev. Dr. E. M. Walker: Democracy in the Ancient World (II.).

FREE PUBLIC LECTURES.

MONDAY, MAY 25.

IMPERIAL COLLEGE OF SCIENCE—ROYAL SCHOOL OF MINES, at 5.15.—Prof. F. A. F. C. Went: Modern Conceptions of Light Stimuli in Plants.

ROYAL SOCIETY OF MEDICINE, at 5.15.—Prof. E. Brumpt: How to conduct an Anti-Malarial Campaign (Chadwick Lecture).

THURSDAY, MAY 28.

ST. MARY'S HOSPITAL (Institute of Pathology and Research), at 5.—Dr. W. E. Gye: The Filterable Viruses.

FRIDAY, MAY 29.

ROYAL SOCIETY OF ARTS, at 5.15.—Prof. E. Brumpt: The Prophylaxis of Sleeping Sickness (Chadwick Lecture).