

Official Publications Received.

Field Museum of Natural History. Zoological Series, Vol. 14, No. 2: Review of Living Caenolestids, with Description of a new Genus from Chile. Reports on Results of the Captain Marshall Field Expeditions. By Wilfred H. Osgood. (Publication 222.) Pp. 163-173. Zoological Series, Vol. 13: Catalogue of Birds of the Americas and the Adjacent Islands in Field Museum of Natural History; including all Species and Subspecies known to occur in North America, Mexico, Central America, South America, the West Indies, and Islands of the Caribbean Sea, the Galapagos Archipelago, and other Islands which may be included on Account of their Faunal Affinities. By Charles B. Cory. Revised and continued by Charles E. Hellmayr. Part 3: Pterotochidae, Conopophagidae, Formicariidae. (Publication 223.) Pp. vii+369. (Chicago.)

Department of the Interior: United States Geological Survey. Water-Supply Paper 513: Surface Water Supply of the United States, 1919-1920. Part 12: North Pacific Slope Drainage Basins. B: Snake River Basin. Pp. vi+318+2 plates. 80 cents. Water-Supply Paper 519: Ground Water in Santa Clara Valley, California. By William O. Clark. Pp. vii+209+19 plates. 35 cents. Water-Supply Paper 520-D: Base Exchange in Ground Water by Silicates as illustrated in Montana. By B. Coleman Renick. Pp. ii+53-72+plates 3-5. Water-Supply Paper 520-E: The Artesian Water Supply of the Dakota Sandstone in North Dakota, with special reference to the Edgeley Quadrangle. By Oscar E. Meinzer and Herbert A. Hard. Pp. ii+73-95+plates 6-7. Water-Supply Paper 525: Surface Water Supply of the United States, 1921. Part 5: Hudson Bay and Upper Mississippi River Basins. Pp. v+191+2 plates. 20 cents. Water-Supply Paper 532: Surface Water Supply of the United States, 1921. Part 12: North Pacific Slope Drainage Basins. A: Pacific Basins in Washington and Upper Columbia River Basins. Pp. vi+222+2 plates. 25 cents. Water-Supply Paper 538: The San Juan Canyon, Southeastern Utah; a Geographic and Hydrographic Reconnaissance. By Hugh D. Miser. Pp. v+80+22 plates. 30 cents. Water-Supply Paper 560-A: Water Power and Irrigation in the Madison River Basin, Montana. By John F. Deeds and Walter N. White. Pp. ii+30. (Washington: Government Printing Office.)

Sudan Government. Wellcome Tropical Research Laboratories, Khartoum. Report of the Government Chemist for the Year 1924. (Chemical Section, Publication No. 35.) Pp. 42. (Khartoum.)

Report of the Board of Commissioners of Agriculture and Forestry of the Territory of Hawaii for the Biennial Period ended December 31, 1924. Pp. iv+49+10 plates. (Honolulu, Hawaii.)

Diary of Societies.

SATURDAY, MAY 16.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—G. L. Bickersteth: Byron and Italian Literature (II.).

BRITISH PSYCHOLOGICAL SOCIETY (Jointly with the General and Aesthetic Sections of the Society) (at King's College), at 3.—Mrs. Ursula Roberts: Intuition and Beauty.—Miss H. M. Wells: The Influence of the Relation between Values and Choice.

MONDAY, MAY 18.

CAMBRIDGE PHILOSOPHICAL SOCIETY, at 4.30.

VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—Prof. H. Wildon Carr: Review of Philosophic Tendencies since Hegel.

ROYAL GEOGRAPHICAL SOCIETY (at Lower Lodge), at 5.—N. E. Odell: The Physiography of Mount Everest.

INSTITUTION OF MECHANICAL ENGINEERS (Graduates' Section, London) (Annual Meeting), at 7.—P. W. Thomas: Some Factors in the Choice of the Best System of Traction for Handling Dense Suburban Rail Traffic.

ROYAL INSTITUTE OF BRITISH ARCHITECTS, at 8.—G. T. Forrest: The Architectural Development of American Cities (Lecture).

ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Prof. W. H. Moberley: Some Ambiguities in the Retributive Theory of Punishment.

TUESDAY, MAY 19.

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

ROYAL STATISTICAL SOCIETY, at 5.15.—Sir Napier Shaw: The Week or Month as an Intermediate Time-Unit for Statistical Purposes.

ROYAL SOCIETY OF MEDICINE, at 5.30.

ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—Report on the Additions made to the Society's Menagerie during the month of April 1925.—Dr. H. H. Scott: A Streptothrix Disease of Wallabies.—Dr. C. F. Sonntag: A Monograph of *Oryzeteropus afer*. II. Nervous System, Sense Organs, and Hairs.—R. H. Burne: Note on the Cerebral Arteries of the Angler (*Lophius piscatorius*).—Dr. E. A. Spanl: (a) On the Retarding Influences of the Posterior-lobe Pituitary upon the Development of Frog-tadpoles; (b) Iodine and Amphibian Metamorphosis.

ILLUMINATING ENGINEERING SOCIETY (at Lighting Service Bureau, 15 Savoy Street, W.C.2), at 7.—W. J. Jones and H. Lingard: A Survey of Lighting in 800 Retail Shops.

ROYAL PHOTOGRAPHIC SOCIETY (Kinematograph Group), at 7.—E. Blake: Film Mutilation.

ROYAL ANTHROPOLOGICAL INSTITUTE, at 8.15.—Prof. R. Ruggles Gates: Mendelian Inheritance in Man.

WEDNESDAY, MAY 20.

ROYAL METEOROLOGICAL SOCIETY, at 5.—Late F. W. Harmer and C. E. P. Brooks: Further Remarks on the Meteorological Conditions of the Pleistocene Epoch.—Sir Gilbert T. Walker: On Periodicity.—Dr. H. Jeffreys: On Fluid Motions produced by Differences of Temperature and Humidity.—A. H. R. Goldie: Gustiness of Wind in Particular Cases.

GEOLOGICAL SOCIETY OF LONDON, at 5.30.—J. W. Tutchet and Dr. A. E. Trueman: The Liassic Rocks of the Radstock District (Somerset).—H. Dewey: Paleolithic Implements of Chellean Type from the Gravels of Hyde Park.

INSTITUTION OF PRODUCTION ENGINEERS (at Engineers' Club, Coventry Street, W.1), at 7.30.—S. C. Downes: Mechanical Costing.

ROYAL SOCIETY OF ARTS, at 8.—Prof. J. A. Fleming: William Sturgeon and the Centenary of the Electro-magnet.

ROYAL MICROSCOPICAL SOCIETY, at 8.—Prof. R. Chambers: The Technique of Micro-dissection and Injection of Cells.—F. I. G. Rawlins: A Note on the Use of the Neon Lamp in Microscopy (with Demonstration by J. E. Barnard).—Dr. R. J. Ludford: The Cytology of Cancer.

THURSDAY, MAY 21.

MEDICO-PSYCHOLOGICAL ASSOCIATION OF GREAT BRITAIN AND IRELAND (at Medical Society of London), at 2.30.—Dr. J. Shaw Bolton: Mind and Brain (Maudsley Lecture).

ROYAL SOCIETY, at 4.30.—Dr. W. E. Curtis and R. G. Long: The Structure of the Band Spectrum of Helium. III. The Doublet Bands.

—G. S. Adair: (a) A Critical Study of the Direct Method of Measuring the Osmotic Pressure of Proteins; (b) The Osmotic Pressure of Haemoglobin and the Absence of Salts.—J. W. Fisher: Some Further Experiments on the Gyromagnetic Effect.—G. A. Elliott and Prof. I. Mason: Thermal Separation in Gaseous Mixtures.—To be read in title only:—Prof. O. W. Richardson: Structure in the Secondary Hydrogen Spectrum.—C. N. Hinshelwood and C. R. Priehard: The Catalytic Decomposition of Nitrous Oxide on the Surface of Gold.—E. H. Callow: The Velocity of Ice Crystallisation through Supercooled Gelatin Gels.—R. C. Johnson: Further Spectra associated with Carbon.—W. Sucksmith: The Gyromagnetic Ratio for Magnetite and Cobalt.—I. Sandeman: The Secondary Spectrum of Hydrogen at Higher Pressures.

ROYAL SOCIETY OF MEDICINE (Dermatology Section) (Annual Meeting), at 5.

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

INSTITUTION OF MINING AND METALLURGY (at Geological Society), at 5.30.

INSTITUTION OF AUTOMOBILE ENGINEERS (Graduates' Meeting) (at Watergate House, Adelphi), at 7.30.

C.B.C. SOCIETY FOR CONSTRUCTIVE BIRTH CONTROL AND RACIAL PROGRESS (at Essex Hall, Essex Street, W.C.2), at 8.—Prof. A. M. Carr-Saunders: The History of the Limitation of Numbers.

CHEMICAL SOCIETY, at 8.—Dr. P. C. Austin and J. R. Park: The Rotatory Dispersion of Derivatives of Tartaric Acid. Part II. Acetyl Derivatives.—J. Kendall and J. E. Booge: The Stability of Additive Compounds between Esters and Acids.—J. Kendall and C. V. King: Additive Compounds in the Ternary System, Acid Ester Water.—Prof. J. F. Thorpe: The Nature of Unsaturation in Carbon Compounds.

Part I. The Ethylenic Linkage.—E. H. Farmer, S. W. Switz, and Prof. J. F. Thorpe: The Nature of Unsaturation in Carbon Compounds. Part II. Conjugation (cis-hexatriene).—H. J. Emeleus: A Spectroscopic Study of the Combustion of Phosphorus Trioxide and of Phosphine.—E. L. Holmes and Dr. C. K. Ingold: The Nature of the Alternating Effect in Carbon Chains. Part III. A Comparative Study of the Directive Efficiencies of Oxygen and Nitrogen Atoms in Aromatic Substitution.

ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE (at 11 Chandos Street, W.1), at 8.15.—Lieut.-Col. J. Cunningham: Serological Observations on Relapsing Fever in Madras.

FRIDAY, MAY 22.

DIESEL ENGINE USERS' ASSOCIATION (at Engineers' Club, Coventry Street, W.1), at 3.30.—C. E. Foster: Pyrometry of Exhaust Temperatures of Internal Combustion Engines.

ROYAL SOCIETY OF ARTS (Indian Section), at 4.30.—Sir Alfred Chatterton: The Industrial Progress of the Mysore State.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science), at 5.—Prof. L. S. Ornstein: The Intensity of Spectral Lines—Measurement and Theory (Lecture).

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Prof. E. A. Allcut: Some Tests on a Two-Stroke Cycle Oil-Engine.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—G. J. T. Walford: The Photography of Architecture: a Thrice-told Tale.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Dr. Thorne M. Carpenter: The Nutrition Laboratory of the Carnegie Institution of Washington and its Investigations on the Metabolism of Man and Animals.

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 (Baineology and Climatology Section) (at Brighton), at 8.30.—Dr. D. Forbes: The Climate of Brighton.

FREE PUBLIC LECTURES.

MONDAY, MAY 18.

BIRKBECK COLLEGE, at 5.30.—Sir Richard Paget, Bart.: The Nature and Mechanism of Human Speech.

WEDNESDAY, MAY 20.

SCHOOL OF ORIENTAL STUDIES, at 5.30.—Dr. D. G. Hogarth: The Origin and Character of the Hittite Civilisation. (Succeeding Lecture on May 21.)

THURSDAY, MAY 21.

ST. MARY'S HOSPITAL (Institute of Pathology and Research), at 5.—Prof. E. W. MacBride: The Inheritance of Acquired Qualities.

FRIDAY, MAY 22.

BIRKBECK COLLEGE, at 8.—Prof. F. O. Bower: Personal Reminiscences of Botany in the Victorian Age—and after.