

are discussed. A new species of pipe-fish, and one of Mastacembelus, are described and also a new colour form of *M. armatus*.—B. Prasad: Revision of Kobelt's nomenclature of the Indian Ampullariidæ.

Official Publications Received.

South Australia: Department of Mines. Mining Review for the Half-Year ended 30th June 1922. Compiled by Lionel C. E. Gee. Pp. 64. (Adelaide.)

South Australia. Annual Report of the Director of Mines and Government Geologist for 1921. Pp. 10+2 maps. (Adelaide.)

The Carnegie United Kingdom Trust. Ninth Annual Report (for the Year ending 31st December 1922) submitted by the Executive Committee to the Trustees on Friday, 9th March 1923. Pp. xii+63. (Edinburgh.)

The Journal of the Royal Anthropological Institute of Great Britain and Ireland. Vol. 52, July to December 1922. Pp. vi.+151-324+12. (London: Royal Anthropological Institute.) 15s. net.

Ministry of Public Works, Egypt. Report on the Work of the Physical Department for the Year ending 31st March 1922. By Dr. H. E. Hurst. Pp. 22. (Cairo: Government Printing Office.) P.T. 5.

Regenwaarnemingen in Nederlandsch-Indië. Twee en Veertigste Jaargang, 1920. Pp. vi+123. Drie en Veertigste Jaargang, 1921. Pp. iii+123. (Wetvevreden, Java: Landsdrukkerij.)

Annual Reports: The Academy of Natural Sciences of Philadelphia for the Year ending 30th November 1921. Pp. 74. (Philadelphia.)

Proceedings of the Academy of Natural Sciences of Philadelphia. Vol. 74, 1922. Pp. iii+313+22 plates. (Philadelphia.)

Annals of the Missouri Botanical Garden. Vol. 9, No. 3, September. Pp. 233-332. (St. Louis, Mo.) 1 dollar.

Library of Congress. Report of the Librarian of Congress and Report of the Superintendent of the Library Building and Grounds for the Fiscal Year ending 30th June 1922. Pp. 209. (Washington: Government Printing Office.) 50 cents.

Diary of Societies.

MONDAY, APRIL 23.

VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.—Dr. D. Anderson-Berry: Occultism: at the Bar of Philosophy and Religion.

ROYAL SOCIETY OF MEDICINE (General Meeting), at 5.—Sir Archibald Garrod, Dr. F. J. Poynton, Dr. M. Cassidy, and Dr. A. F. Hurst: Discussion on the Ætiology and Treatment of Osteo-arthritis and Rheumatoid Arthritis.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. Shattock: Syphilis.

INSTITUTION OF MECHANICAL ENGINEERS (London Graduates' Section), at 7.—S. H. G. Warne: Recent Steam-Wagon Progress, and a Suggested Design.

INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—E. H. Shaughnessy and others: Discussion on Practical Broadcasting.

ROYAL INSTITUTE OF BRITISH ARCHITECTS, at 8.—W. G. Newton: The Literature of Architecture.

ROYAL SOCIETY OF ARTS, at 8.—E. Kilburn Scott: Nitrates from Air (3). (Cantor Lectures.)

FARADAY SOCIETY (at Chemical Society), at 8.—J. H. Shaxby and J. C. Evans: The Properties of Powders—The Variation of Pressure with Depth in Columns of Powders.—E. E. Walker: The Properties of Powders. Part VI. The Compressibility of Powders. Part VII. The Distribution of Densities in Columns of Compressed Powder.—E. K. Rideal: The Rate of Hydrogenation of Cinnamic and Phenylpropionic Acids.—A. Tafel: The Temperature of Maximum Density of Aqueous Solutions.—L. Anderson: Note on the Coagulation of Milk by Acid.

ROYAL SOCIETY OF MEDICINE (Odontology Section), at 8.—Dr. C. F. Sonntag: Some Points in the Comparative Anatomy of the Mouth and Tongue.—G. J. Harborow: A Case of Unerrupted Incisors and Canines in a Male aged 59.—E. Sprawson: The Vascular Supply of the Enamel Organ of *Felis domestica*.

ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 8.30.—L. M. D. Buxton: Inner Mongolia.

TUESDAY, APRIL 24.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir Arthur Keith: The Machinery of Human Evolution (3). How New Features are Gained.

ROYAL SOCIETY OF MEDICINE (Medicine Section), at 5.30.—Dr. C. Gouldsbrough: Osteo-arthritis of the Spine.—Dr. H. L. Tidy: Glandular Fever and Infective Mononucleosis.

ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—R. B. Murray: Exhibition of a Giant Centipede from Trinidad, and Mounted Skins of Oil-birds.—Lt. Col. S. Monckton Copeman and Major E. E. Austen: Exhibition (with photographs) of a unique British Dipteron, taken on Primrose Hill.—Baron F. Nopsca: The Origin of Flight in Birds.—E. C. Stuart Baker: Cuckoos' Eggs and Evolution.

INSTITUTION OF CIVIL ENGINEERS, at 6.—Annual General Meeting.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Scientific and Technical Group), at 7.—Capt. J. W. Bamfylde: Photomicrography as applied to the Iron-Carbon.

WEDNESDAY, APRIL 25.

ROYAL SOCIETY OF ARTS, at 4.30.—Conference on the Milk Question.—Papers: Prof. R. S. Williams: The Arguments for maintaining an Open

Market for Fresh Milk.—Prof. J. C. Drummond: Changes in the Digestibility and Nutritive Value of Milk induced by Heating.—Dr. S. S. Zilva: The Effect of Heat on some Physiological Principles in Milk.—Capt. J. Golding and Mrs. A. T. R. Matfick: A Demonstration of some of the Chemical Changes in Milk on Heating to various Temperatures.

ROYAL MICROSCOPICAL SOCIETY (Industrial Applications Section), at 7.—C. Baker: Junior Engineer Metallurgical Microscope and the Greenough Binocular Microscope.—R. and J. Beck, Ltd.: New Research Outfit for Metallurgical Work, including Microscope, Camera, Optical Bench, etc.—Edison Swan Electric Co., Ltd.: Projector and Fulloilite Lamps.—M. P. Swift: Use of Dichroscopes for the Identification of certain Gem Stones.—W. Watson and Sons, Ltd.: Petrological Microscopes.—At 8.—J. E. Barnard: The Manipulation of the Microscope in Industrial Laboratories. Part I. Illuminants and Illumination.—Dr. M. C. Stopes: The Microscopical Examination of Coal in relation to Fuel Economy and Efficiency.

BRITISH PSYCHOLOGICAL SOCIETY (Medical and Education Sections) (at London Day Training College), at 8.—Drs. East, Burt, Shrubbsall, and Stoddart: Symposium on Delinquency and Mental Defect, to be followed by a discussion.

THURSDAY, APRIL 26.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Prof. J. T. MacGregor-Morris: Modern Electric Lamps (1). Glowing Solids *in vacuo* (Tungsten Lamps).

ROYAL SOCIETY, at 4.30.—Prof. T. R. Merton and R. C. Johnson: Spectra associated with Carbon.—R. A. Watson Watt and Dr. E. V. Appleton: The Nature of Atmospheres.—Prof. W. A. Bone, D. M. Newitt, and D. T. A. Townend: Gaseous Combustion at High Pressures. Part III. The Energy-absorbing Function and Activation of Nitrogen in the Combustion of Carbon Monoxide.—Dr. I. Masson and L. G. F. Dolley: The Pressures of Gaseous Mixtures.—W. R. Bousfield and C. Elspeth Bousfield: Vapour Pressure and Density of Sodium Chloride Solutions.—Prof. F. A. Lindemann and G. M. B. Dobson: A Note on the Temperature of the Air at Great Heights.—Prof. G. H. Hardy and J. E. Littlewood: Lindelöf's Hypothesis concerning the Riemann Zeta-function.

LONDON MATHEMATICAL SOCIETY (at Royal Astronomical Society), at 5.—Grace Chisholm Young: The Solution of a Pair of Diophantine Equations connected with the Nuptial Number of Plato.—H. W. Richmond: (1) The Electrostatic Field of a Plane Grating with Thick Rounded Bars; (2) Notes on the use of the Schwarz-Christoffel Transformation in Electrostatics.—E. G. C. Poole: The Discontinuous Motion produced in an Infinite Stream by Two Plane Obstacles.—A. E. Ingham: Two Mean Value Theorems concerning Riemann's Zeta-function.—A. E. Jolliffe: The Inflections of the Non-singular Plane Quartic.—R. Vaidynathaswami: Transversal Problems in Hyperspace.—T. Stuart: Certain Diophantine Equations.—M. Riesz: Sur l'équivalence des certaines méthodes de sommation.—K. Basu: The Perturbations of the Orbit of the Valency-electron in the Generalised Hydrogen-unlike Atom.—Pandit Oudh Upadhyaya: Cyclotomic Heptasection.

CHILD-STUDY SOCIETY (at Royal Sanitary Institute), at 5.30.—Annual General Meeting.—At 6.—Dr. W. G. Sleight: Children's Taste in Pictures.

INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—L. Breach and H. Midgley: The Drive of Power Station Auxiliaries.

SOCIETY OF DYERS AND COLOURISTS (London Section) (at Dyers' Hall, Dowgate Hill), at 7.—L. G. Lawrie: Fur Dyeing.

ROYAL SOCIETY OF MEDICINE (Urology Section), at 8.30.—Clinical and Pathological Evening.

FRIDAY, APRIL 27.

ASSOCIATION OF ECONOMIC BIOLOGISTS (in Botany Theatre, Imperial College of Science and Technology), at 2.30.—Dr. C. M. Wenyon: Some Recent Observations on Pathogenic Protozoa of Plants and Animals.—(To be followed by a discussion.)

ROYAL SOCIETY OF MEDICINE (Study of Disease in Children Section), at 5.—(Epidemiology and State Medicine Section), at 8.—Dr. T. F. Dewar: The Incidence of Venereal Disease in Scotland.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science and Technology), at 5.—The Research Staff, General Electric Co., Ltd.: The Analysis of Bubbles in Glass.—Dr. H. P. Waran: A Simple Regenerative Vacuum Device, and some of its Applications.—Capt. H. Shaw and E. Lancaster Jones: Application of the Eötvös Torsion Balance to the Investigation of Local Gravitational Fields.—L. F. Richardson: Demonstration of an Electromagnetic Inductor.—Dr. F. Ll. Hopwood: Demonstration of Experiment Illustrating Time-Lag in Vision.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Arthur Keith: Surgical Anatomy of the Foot.

INSTITUTION OF MECHANICAL ENGINEERS (Informal Meeting), at 7.—Adjourned Discussion on paper by A. E. L. Chorlton: The Use of Light Alloys in place of Iron and Steel.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—J. Feard: Stock Control.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 8.—A. Watkins: Early British Trackways.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Prof. C. V. Boys: Measurement of the Heating Value of Gas.

SATURDAY, APRIL 28.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Dr. L. L. B. Williams: The Physical and Physiological Foundations of Character (1).

PUBLIC LECTURE.

WEDNESDAY, APRIL 25.

KING'S COLLEGE, at 5.30.—The late Prof. E. Troeltsch (by Dr. E. Barker): Ethics and the Philosophy of History. (Succeeding lectures on May 2 and 9.)