Official Publications Received.

Official Publications Received. Scientific Papers of the Institute of Physical and Chemical Research; No. 48: On the Absorption Spectra produced by the Explosion of varias⁴⁰ Elements (Hg, Cu, Fe, etc.). By Takeo Hori. Pp. 59/78+5 plates. 70 sen. Nos. 50-51: La Konsisto de Magnezioksiklorida Cemento, de Tutomu Maeda kaj Sigeru Yamane; Viskozecošango, dum la Reakcio inter Magnezioksido kaj Magneziklorida Akvosolvajo, kaj Nova Konsidero rilate al Hardiĝo de Cementoj, de Tutomu Maeda. Pp. 85-128. 50 sen. No. 52: Some Experiments on Spark Discharge in Hetorogeneous Media – a Hint on the Mechanism of Lightning Discharge. By Torahiko Terada, Ukitirō Nakaya and Kiyoshiko Yumoto. Pp. 120-160+plates 7-14. 70 sen. No. 53: Influence of Vitamin A on the Absorption of a Foreign Fat. By Waro Nakahara. Pp. 161-166. 20 sen. No. 54: The Change of the Wave-length of the Cadmium Red-line (A6438:7 Å). By Mitsuharu Fukuda. Pp. 167-170+plate 15. 20 sen. No. 55: on the New Lines (IS-2p.), of Zinc, Cadmium and Mercury. By Mitsuharu Fukuda. Pp. 171-176+plate 16. 80 sen. No. 56: The Spectra of Metals under Heavy Current Excitation. By Mitsuharu Fukuda, Tamio Kuyama and Yasushi Uchida. Pp. 177-188+plate 17. 40 sen. (Tokyo: Institute of Physical and Chemical Research, Komagome, Hongo.) Aeronautical Research Committee. Reports and Memoranda, No. 987 (Ae. 199): The Full Scale Determination of the Lateral Resistance Derivatives of a Bristol Fighter Aeroplane. By H. M. Garner and S. B. Gates. (A.2.b. Stability, Full Scale Experiments 34-T, 2107.) (S. and C. 119.) Pp. 164-8 plates. Is. net. Reports and Memoranda, No. 990 (Ae. 201): Full Scale and Model Measurements of Lift and Drag of Bristol Fighter with R.A.F. 31 Wings. By B.D. Clark, Dr. R. G. Harris and L. E. Caygill. (A.3.a. Aerofoils General, 153, A.4.b. Full Scale work 28-T. 2123.) Pp. 6+7 plates, 6d. net. (London: H.M. Stationery Department of the Interior ; U.S. Geological Survey. Watef-Supply

Office.)
Department of the Interior: U.S. Geological Survey. Watet-Supply Paper 562: Surface Water Supply of the United States, 1923. Part 2: South Atlantic Slope and Eastern Gulf of Mexico Basins. Pp. iv+86+3 plates. 15 cents. Bulletin 783.4.: Mineral Industry of Alaska in 1924 and Administrative Report. By Philip S. Smith. Pp. ii+39+xvii. (Washington, D.C.: Government Printing Office.)
Publications of the Kapteyn Astronomical Laboratory at Groningen. Edited by Prof. Dr. P. J. Van Rhijn. No. 40: The Stars of High Velocity. By J. H. Oort. Pp. viii+75. (Groningen: Hoitsema Bros.)

Diary of Societies.

SATURDAY, JUNE 12.

- SATURDAY, JUNE 12.
 BIOCHEMICAI. SOCIETY (In Wellcome Physiological Research Laboratories, Langley Court, Beckenham), at 11.45 and 2.30.—C. G. Pope: (a) A Direct Reading H-ion Meter; (b) The Surface Concentration of Phenol in Aqueous Solutions.—J. W. Trevan, H. Bainbridge, and J. H. Gaddum: Micro Volumetric Methods.—J. W. Trevan: A New Micro-Balance.—A. F. Watson and E. D. F. Langstaff: Stages in the Purification of Culture Filtrates of B. Diphtheriæ.—C. Dorée and E. C. Barton-Wright: A Note ou the Stone-Cells of the Pear.—R. L. M. Wallis: The Corpus Luteum and Cholesterol Metabolism.—D. T. Davies, F. Dickens, and E. C. Dodds: Observa-tions on the Properties and Preparation of the Para-thyroid Hormone (Collip).—H. R. Whitehead: Phosphates and the Growth of Streptococci.—A. T. Glenuy, C. G. Pope, H. Waddington, and U. Wallace: Variations in Immunity Response to Different Preparations of Diphtheria Toxin.—A. F. Watson and E. D. F. Langstaff: The Preparation and Some Properties of Purified Diphtheria Antigen.— J. W. Trevan and E. M. Boock: Some Physical Properties of Icceal Amasthetics.—O. Rosenheim and T. A. Webster: (a) The Anti-rachitic Properties of Irradiated Sterols; (b) Note on Alleged Specific Colour Reactions for Vitumin D.
 MINING INSTITUTE OF Scotland (at Dunfermline).
- MINING INSTITUTE OF SCOTLAND (at Dunfermline).

MONDAY, JUNE 14.

- MONDAY, JUNE 14. FARADAY SOCIETY (at Institution of Mechanical Engineers) (Discussion on Explosive Reactions in Gaseous Media), at 2.30 and 5.-Part I. Explosive Reactions Considered Generally:-Dr. W. E. Garner: Introductory Survey.-Prof. H. B. Dixon, J. Harwood, and W. F. Higgins : On the Ignition Point of Gases.-Prof. W. T. David: Radia-tion in Gaseous Explosions.-Dr. S. W. Saunders and Dr. W. E. Garner: Ionisation in Gas Explosions.-Dr. S. C. Lind: I conisation and Gas Explosions.-Prof. R. V. Wheeler and Dr. W. Payman: The Uniform Movement of Flame.-Prof. W. A. Bone: Explosions at High Pressure. -Dr. Colin Campbell and Prof. H. B. Dixon: Explosion Wave in Cyanogen Mixtures.-At 7.45. Part II. Explosive Reactions Con-sidered in Reference to Internal Combustion Engines:-Sir Dugald Clerk: Introductory Survey.-Prof. W. T. David: Combustion in Gas Engines.-H. T. Tizard: Explosions in Petrol Engines. Royal Islen AcaDemy, at 4.15. VICTORIA INSTITUTE (at Central Buildings, Westminster), at 4.30.-Prof. H. A. Kelly: The Silence of God-How is it explained?

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BRITISH PSYCHOLOGICAL SOCIETY (Education Section) (at London Day Training College), at 8.—Capt. H. S. G. Sutherland: The Correlation between Size of Family and Intelligence of the Children. ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 8.30.

TUESDAY, JUNE 15.

- ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.-Sir Thomas Lewis. Observations upon Blood Vessels of the Human Skin (Croonian Lectures) (3).
- ROYAL STATISTICAL SOCIETY (at Royal Society of Arts), at 5.15 .- Dr. E. C.
- ROYAL STATISTICAL SOCIETY (at Royal Society of Arts), at 5.15.—Dr. B. C. Snow: Some Observations on Trade Forecasting and Prices. MINERALOGICAL SOCIETY (at Geological Society of London), at 5.30.—Dr. F. L. Stillwell: On the Nature of Berthierite.—S. I. Tomkeieff: On some Chloritic Minerals Associated with the Basaltic Carboniferous Rocks of Derbyshire.—H. E. Buckley: The Anomalous Optical Properties of Several New Series of Isomorphous Double Tartrates.— Dr. G. T. Prior: On the South African Meteorites, Vaalbult, Witklip, and Oncen's Marry.
- Dr. G. T. Prior: On the South African Meteorites, Vaalbult, Witklip, and Queen's Mercy. Zooroorcat Society of LONDON, at 5.30.—Dr. H. H. Scott: A Mycotic Disease of Batrachians.—H. G. Jackson: The Morphology of the Isopod Head.—F. W. Edwards: On the Marine Chironomida (Diptera); with Descriptions of a New Genns and Four New Species from Samoa. —P. A. Buxton: The Colonisation of the Sea by the Chironomide (Diptera); with an Account of the Habits of a New Genus and Species in Samoa.—O. A. Merritt Hawkes: On the Massing of the Ladybird, *Hippodamia convergens* (Coleoptera), in the Yosemite Valley.—Dr. Marie V. Lebour: On some Larval Buphausildes (Crustacea) from the Mediterranean in the Neighbourhood of Alexandria, Egypt, collected by Mr. F. S. Russell.—D. Bhatia: On Three New Species of the Genus Anadenus (Mollusca).—Prof. J. P. Hill and Prof. J. B. Gatenby: The Corpus Luteum of the Monetremata. The Corpus Luteum of the Monetremata.

WEDNESDAY, JUNE 16.

SOCIETY OF GLASS TECHNOLOGY (at Sheffield), at 2.20.

- SOCIETY OF GLASS TECHNOLOGY (at Sheffield), at 2.50.
 CORRELATIVE SCIENCE SOCIETY (at Royal Botanic Society of London), at s.—Chemical Physics—The Dynamics of Molecular Motions, Planetary Nebulæ, Critical Velocity (Conference).
 LONDON DERMATOLOGICAL SOCIETY (at St. John's Hospital, Leicester Square), at 4.30.—Sir Humphry Rolleston, Bart.: The Relations of Dermatology and General Medicine (Annual Oration).
 ROYAL METEOROLOGICAL SOCIETY, at 5.—J. E. Clark, I. D. Margary, and R. Marshall: Report on the Phenological Observations in the British Isles from December 1924 to November 1925.—S. M. Bower : Report on Winter Thunderstorms in the British Islands from January 1 to March 31, 1925.—Dr. E. Kidson: Abnormal Rates of Ascent of Pilot Balloons in the Lower Levels of the Atmosphere at Melbourne.

THURSDAY, JUNE 17.

THURSDAY, JUNE 17. ROYAL SOCIETY, at 4.30.—Sir Arthur Schuster: A Review of Mr. George W. Walker's Magnetic Survey (1915).—Lord Rayleigh: The Continuous Spectrum of Mercury Vapour in relation to the Resonance Line 256-62. —Prof. O. W. Richardson: Structure in the Secondary Hydrogen Spectrum. IV.—Prof. W. L. Bragg and J. West: The Structure of Boryl, Beg. Alg. Sig. Org.—Prof. A. P. Laurie: On the Change of Refractive Index of Linseed Oil in the Process of Drying and its Effect on the Deterioration of Oil Paintings. INSTITUTE OF PATHOLOGY AND RESEARCH (St. Mary's Hospital, Padding-ton), at 5.—J. E. Barnard: The Microscopy of the Filterable Viruses. ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Sir Thomas Lewis: Observations upon Blood Vessels of the Human Skin (Croonian Lectures) (4).

- Observations upon Blood Vessels of the Human Skin (Croonian Lectures) (4). CHEMICAL SOCIETY, at S. A. Hassell and Dr. C. K. Ingold: The Chemistry of Polycyclic Structures in Relation to their Homocyclic Unsaturated Isomerides. Part VII. Tautomerism corresponding with that of Nitrosophenol and Quinone-oxime in the Dicyclopentane Series. F. R. Goss, Dr. C. K. Ingold, and I. S. Wilson: The Nature of the Alternating Effect in Carbon Chains. Part VIII. The Nitration of some Benzylamine Derivatives with Special Reference to the Respective Roles of the Ions, Salts, and Bases.— E. L. Hirst: The Structure of the Normal Monosaccharides. Part V. Fructose, -W. N. Haworth and E. J. Hirst: The Constitution of the Disaccharidés. Part XI. The Relationships of Fructose, -Fructose, and Sucrose. Exotext Science of Taorical. MEDICINE AND Hydiexe (Annual General Meeting) (at 11 Chandos Street, W.), at 8.15.—Col. S. P. James: Epidemiological Results of a Laboratory Study of Malaria in England. Presentation of the Manson Medal to Prof. E. Marchiafava, in recognition of the part he took, with other Italian Investigators, in the Elucidation of the Life-history of the Parasites of Human Malaria.

FRIDAY, JUNE 18.

- FRIDAY, JUNE 18.
 ROYAL ASTRONOMICAL SOCIETY (Geophysical Discussion), at 5.—Prof. E. V. Appleton and Dr. G. C. Simpson: Electrical Discharges in the Atmosphere. Chairman: Col. H. G. Lyons.
 ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section) (Annual Meeting), at 5.
 GEOLOGIETS' ASSOCIATION (at University College), at 7.30,—Dr. D. R. Grantham: The Petrology of the Shap Granite.—G. W. Young: Notes on the Shoshone Valley, Yellowstone National Park, U.S.A. (Lecture).
 ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Seton Gordon: The Golden Eagle and its Neighbours.
 ROYAL SOCIETY OF MEDICINE (Study of Disease in Children) (at Children's Hospital, Birmingham).

CONFERENCES.

SATURDAY, JUNE 12.

- PHOTOGRAPHIC CONVENTION OF THE UNITED KINGDOM (at Edinburgh).
- South-EASTREN UNION OF SCIENTIFIC SOUTHERS (at Colchester).--A. Farquharson: The Social Constitution of a County.--G. E. Hutchings: The Choice of Maps for Regional Surveys.--Dr. C. Tierney: Some of Nutrice Science Nature's Secrets.