

United States Department of the Interior: Geological Survey. Water-Supply Paper 615: Surface Water Supply of Hawaii, July 1, 1924, to June 30, 1925. Pp. iv+155. 20 cents. Water-Supply Paper 616: Geology and Water Resources of the Kau District, Hawaii (including parts of Kilanea and Mauna Loa Volcanoes). By Harold T. Stearns and William O. Clark; with a Chapter on Ground Water in the Hawaiian Islands, by Oscar E. Meinzer. Pp. ix+194+53 plates. 85 cents. Water-Supply Paper 629: Surface Water Supply of the United States, 1926. Part 9: Colorado River Basin. Pp. v+138. 20 cents. Water-Supply Paper 632: Surface Water Supply of the United States, 1926. Part 12: North Pacific Slope Drainage Basins. A: Pacific Slope Basins in Washington and Upper Columbia River Basin. Pp. v+154. 20 cents. Professional Paper 156: Revision of the Lower Eocene Wilcox Flora of the Southeastern States, with Descriptions of New Species, chiefly from Tennessee and Kentucky. By Edward Wilber Berry. Pp. iv+196+50 plates. 75 cents. (Washington, D.C.: Government Printing Office.)

Ministry of Agriculture, Egypt: Technical and Scientific Service. Bulletin No. 99: A Note on Two Marssonina Diseases on Willows. By Dr. R. M. Natrass. Pp. ii+19+18 plates. (Cairo: Government Press.) 6 P.T.

Proceedings of the American Academy of Arts and Sciences. Vol. 64, No. 7: An Equation of State for Gas Mixtures. 2: A Study of the Methods of Combination of the Constants of the Beattie-Bridgeman Equation of State. By James A. Beattie and Shikao Ikehara. Pp. 127-176. Vol. 64, No. 8: The Anonymous La Conquista del Peru (Seville, April 1534) and the Libro Ultimo del Smmario delle Indie Occidentali (Venice, October 1534). Edited, with an Introduction and a Bibliography, by Alexander Pogo. Pp. 177-286. 1.75 dollars. (Boston, Mass.)

Scientific Papers of the Institute of Physical and Chemical Research. No. 254: Zeeman Effect of Neon. By Kiyoshi Murakawa and Tatsuro Iwama. Pp. 203-291. 20 sen. No. 256: Studies on the Coagulation of von Weimarn's Au⁺ Sols, II. By Eichi Iwase. Pp. 11. 20 sen. Nos. 257-259: Über die katalytische Reduktion des Kohlenoxyds unter gewöhnlichem Druck, 5: Die Einflüsse von Titanoxyd, Zirkoniumoxyd und Ceroyd auf den Kobalt-Kupferkatalysator, von Shinjiro Kodama; On the Promoter Action in the Catalytic Oxidation of Methane with Steam, by Benno Kubota and Tatsuo Yamanaka; The Separation and Determination of Gallium, 2: The Separation of Gallium and Aluminium from each other, and the Determination of these Elements, by Sunao Ato. Pp. 13-47. (Tōkyō: Iwanami Shoten.) 55 sen.

United States Department of Agriculture. Technical Bulletin No. 198: Relative Insecticidal Value of Commercial Grades of Pyrethrum. By C. C. McDonnell, W. S. Abbott, W. M. Davidson, G. L. Keenan and O. A. Nelson. Pp. 10. (Washington, D.C.: Government Printing Office.) 5 cents.

U.S. Treasury Department: United States Coast Guard. Bulletin No. 18: International Ice Observation and Ice Patrol Service in the North Atlantic Ocean, Season of 1929. Pp. iv+141+17 plates. (Washington, D.C.: Government Printing Office.)

Ministry of Finance, Egypt: Coastguards and Fisheries Service. Report on the Fisheries of Egypt for the Year 1928. By R. S. Wimpenny. Pp. x+86+4 plates. (Cairo: Government Press.) 5 P.T.

The Peking Society of Natural History. Bulletin, Vol. 4, Part 4: Yenching Science Conference Papers. Pp. 101. (Peking.) 1.50 dollars.

U.S. Department of Agriculture. Leaflet No. 59: Hints on Coyote and Wolf Trapping. By Stanley P. Young. Pp. 8. 5 cents. Circular No. 130: Traps for the Japanese Beetle. By E. R. Van Leeuwen and F. W. Metzger. Pp. 16. 5 cents. (Washington, D.C.: Government Printing Office.)

Société des Nations: Institut International de Coopération Intellectuelle. Coordination des Bibliothèques: Guide des services nationaux de renseignements du prêt et des échanges internationaux. Pp. 50. (Paris.)

University of California Publications in American Archaeology and Ethnology. Vol. 24, No. 7: The Carver's Art of the Indians of Northwestern California. By Isabel T. Kelly. Pp. 343-360+plates 103-119. (Berkeley, Cal.: University of California Press; London: Cambridge University Press.) 40 cents.

University of California Publications in Zoology. Vol. 32, No. 4: Osteology of the California Road-Runner Recent and Pleistocene. By Leigh Marian Larson. Pp. 409-428. 25 cents. Vol. 32, No. 5: Notes on the Range and Life-History of the Pacific Freshwater Turtle, *Clemmys marmorata*. By Tracey I. Storer. Pp. 429-441. 25 cents. (Berkeley, Cal.: University of California Press; London: Cambridge University Press.)

Scientific Papers of the Institute of Physical and Chemical Research. No. 255: Isotope Effect in the Spectrum of Neon, I. By Hantaro Nagaoka and Tadao Mishima. Pp. 293-316+plates 34-38. (Tōkyō: Iwanami Shoten.) 60 sen.

Publikationer og mindre Meddelelser fra Københavns Observatorium. Nr. 70: Das kritische Massenverhältnis bei der Bewegung um L_4 und L_5 im Probleme Restreint. Von Elis Strömgren. Pp. 14. (København: Bianco Lunos Bogtrykkeri A.-S.)

Collection des travaux chimiques de Tchecoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 2, No. 8, Août. Pp. 489-544. (Prague: Regia Societas Scientiarum Bohemica.)

Journal of the Faculty of Agriculture, Hokkaido Imperial University. Vol. 29, Part 1: Die biologischen Gruppen der Rhynchitinen, Atellaninen und Apoderinen. Von Hiromichi Kōno. Pp. 36+4 Tafeln. (Tokyo: Maruzen Co., Ltd.)

Proceedings of the Imperial Academy. Vol. 6, No. 7, July. Pp. xxiii-xxiv+243-295. (Tokyo.)

Memoirs of the Geological Survey of China. Series A, No. 6: The Geology of the Kalgan Area. By Prof. George B. Barbour. (Contributions from the Department of Geology, Columbia University, Vol. 42, No. 2.) Pp. xi+148+14 plates. (Peking.)

CATALOGUES.

Cambridge Alternating Current Instruments for Supply Frequencies. (List No. 161.) Pp. 28. The Grassot Fluxmeter. (List No. 173.) Pp. 8. (London: Cambridge Instrument Co., Ltd.)

No. 3177, VOL. 126]

Diary of Societies.

MONDAY, SEPTEMBER 22.

CERAMIC SOCIETY (Refractory Materials Section) (at the Building Trades Exhibition, Olympia), at 2.30.—W. J. Rees and J. H. Chesters: The Application of Tensile Tests to the Study of the Bonding of Refractory Materials.—C. R. F. Theilfall: Grog.—H. T. S. Swallow: The Influence of Atmosphere on the Load-bearing Capacities of Firebricks.

CERAMIC SOCIETY (Building Materials Section) (at the Building Trades Exhibition, Olympia), at 2.30.—F. L. Brady and E. H. Coleman: Influence of Firing Conditions on the Soluble Salt Content of Burnt Brick.—J. Williamson: Continuous Kilns for Burning Clay.—W. Emery: Red Roofing Tile Kiln Report.

TUESDAY, SEPTEMBER 23.

CERAMIC SOCIETY (Refractory Materials Section) (at the Building Trades Exhibition, Olympia), at 10.30.—W. Huggill: The Structure of Diatomaceous Earths in Relation to their Uses.—R. J. Sarjant: Works Tests on Refractories and Service Conditions.—W. Huggill and W. J. Rees: Effect of Repeated Burning on the Structure and Properties of Lime-bonded Silica Bricks. Parts II and III.

CERAMIC SOCIETY (Building Materials Section) (at the Building Trades Exhibition, Olympia), at 10.30.—Ambrose W. Cross: British Bricks for British Roads.—G. A. Hodson: The Manufacture of Bricks for Road Paving in U.S.A. and Holland.—J. Bentley, jun.: A Few Observations on the Causes of a Particular Type of Crack encountered in the Manufacture of Plastic Machine-made Roofing Tiles.—W. Emery: Blue Brick Kiln Report.

INSTITUTE OF MARINE ENGINEERS, at 6.—Lieut.-Comdr. Sir August B. T. Cayzer: Presidential Address.

WEDNESDAY, SEPTEMBER 24.

CERAMIC SOCIETY (Refractory Materials Section) (at the Building Trades Exhibition, Olympia), at 10.30 a.m.—Council and General Business Meeting of Refractory Materials Section.

CERAMIC SOCIETY (Building Materials Section) (at the Building Trades Exhibition, Olympia), at 11.30.—Council and General Business Meeting of Building Section. The following papers will be communicated by title:—W. J. Rees and W. Huggill: The Effect of Iron Oxide and a Reducing Agent on the Rate of Inversion of Quartz.—W. J. Rees: Note on the Effect of Iron Oxide in Quartz Inversion.—J. W. Mellor: A Study of Pan Grinding.

THURSDAY, SEPTEMBER 25.

INSTITUTION OF LOCOMOTIVE ENGINEERS, at 6.—H. Kelway Bamber: Presidential Address.

SATURDAY, SEPTEMBER 27.

SOUTH-EASTERN UNION OF SCIENTIFIC SOCIETIES (Autumn Meeting).—Visits to St. Paul's Cathedral and the Natural History Museum.

THURSDAY OCTOBER 2.

SOCIETY OF CHEMICAL INDUSTRY (Bristol Section) (in the Chemical Department, The University, Bristol), at 7.30.—Prof. J. W. Hinchley: Air and Water.

FRIDAY, OCTOBER 3.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—S. J. Crispin: The Development of the Bridge.

SATURDAY, OCTOBER 4.

ROYAL SANITARY INSTITUTE (in the Assembly Room, Town Hall, Hereford), at 10 a.m.—Councillor Mrs. Luard: The Place of Women in Local Government.—G. H. Jack: The Preservation of the Countryside.—Councillor J. R. Barker: The Health Authority and the Milk Supply.

CONGRESS.

SEPTEMBER 29 TO OCTOBER 1.

FARADAY SOCIETY (in Laboratory of Physical Chemistry, Cambridge).—Discussion on Colloid Science applied to Biology.

Monday, Sept. 29, 2 to 4 and 4.30 to 7.—Equilibrium in Protein Systems.

In Chair—Sir William Hardy, who will introduce the Discussion.

Prof. A. V. Hill: Membrane-Phenomena in Living Matter—Equilibrium or Steady State.

Dr. R. A. Gortner: The State of Water in Colloidal and Living Systems.

Prof. E. J. Bigwood: Distribution of Diffusible Ions in Gels.

Prof. W. Pauli: The Behaviour of Proteins towards other Colloids and towards Electrolytes.

Prof. F. F. Nord: The Biological Significance of the Physical Influence of Gases on Colloids.

Tuesday, Sept. 30, 10 a.m. to 11.15 a.m., 11.30 a.m. to 1 p.m., 2.30 to 4, and 4.30 to 7; and

Wednesday, Oct. 1, 10 a.m. to 1 p.m.—In Chair—Sir F. Gowland Hopkins, who will introduce the Discussion.

Dr. Honor B. Fell and Dr. Wilmer, followed by Kinematograph Studies of Living Cells by Dr. Canti: The Structure, Behaviour and Physiological Characteristics of Vertebrate Cells cultivated *in vitro*.

Prof. E. Faure-Fremiet: The Kinetics of Living Matter.

Prof. R. A. Peters: Surface Structure in the Integration of Cell Activity.

Prof. O. Warburg: Surface Reactions in Living Cells.

Prof. H. Pfeiffer: Isoelectric Point of Cells and Tissues.

Dr. A. von Muralt and Dr. J. Edsall: Double Refraction in Protein Systems.

Dr. J. H. Quastel: The Mechanism of Bacterial Action.

Other speakers will be: Prof. E. F. Burton, Prof. J. Duclaux, Prof. H. Euler, Prof. H. Freundlich, Prof. H. R. Kruyt, Prof. H. Lundegårdh, Dr. P. Leconte du Nouy, Prof. W. J. V. Osterhout, Prof. Wo. Ostwald, Prof. and Mme. Jean Roche, Dr. Straub, and Prof. T. Svedberg.