

Reprint and Circular Series of the National Research Council. No. 90: Enzyme Catalysts. Seventh Report of the Committee on Contact Catalysis, National Research Council. By E. F. Armstrong and T. P. Hilditch. Pp. 15. 25 cents. No. 91: Doctorates conferred in the Sciences by American Universities, 1928-1929. Compiled by Callie Hull and Clarence J. West. Pp. 46. 50 cents. (Washington, D.C.: National Academy of Sciences.)

United States Department of Commerce: Bureau of Standards. Bureau of Standards Journal of Research. Vol. 3, No. 6, December 1929. Pp. 829-1052. (Washington, D.C.: Government Printing Office.)

U.S. Department of Commerce: Coast and Geodetic Survey. Annual Report of the Director, United States Coast and Geodetic Survey to the Secretary of Commerce for the Fiscal Year ended June 30, 1929. Pp. iii+41+17 plates. 15 cents. Serial No. 452: Results of Observations made at the United States Coast and Geodetic Survey Magnetic Observatory near Honolulu, Hawaii, in 1923 and 1924. By W. N. McFarland. Pp. ii+108. 30 cents. (Washington, D.C.: Government Printing Office.)

CATALOGUES.

B.D.H. Vitamin Products: their Composition and Uses. Pp. 4. (London: The British Drug Houses, Ltd.)

Catalogue of Important Works on Botany, Herbals, Phanerogams, Floras and Cryptogams, Zoology and Geology. (No. 11.) Pp. 20. (London: John H. Knowles.)

Diary of Societies.

FRIDAY, MARCH 28.

- ROYAL SOCIETY FOR THE PROTECTION OF BIRDS (at Middlesex Guildhall, Westminster), at 3.—Annual Meeting.
- ROYAL SOCIETY OF MEDICINE (Disease in Children Section) (Clinical Meeting at King's College Hospital), at 5.
- PHYSICAL SOCIETY (Annual General Meeting) (at Imperial College of Science), at 5.—Presentation of the Duddell Medal to Prof. A. A. Michelson.—At 5.45 (in Electrical Engineering Department of the City and Guilds Engineering College).—Exhibition of Research Work now in Progress.
- INSTITUTION OF ELECTRICAL ENGINEERS (North-Western Centre, jointly with Manchester Association of Engineers) (at Manchester), at 7.15.—J. Calderwood: Marine Diesel Installations, with particular reference to Auxiliary Machinery.
- JUNIOR INSTITUTION OF ENGINEERS (at Royal Society of Arts), at 7.30.—G. S. Taylor: Industrial Accidents; their Cause and Prevention (Gustave Canet Memorial Lecture).
- ROYAL SOCIETY OF MEDICINE (Epidemiology Section), at 8.—Dr. W. Fletcher: Typhus-like Diseases of Unknown Aetiology.
- PHILOLOGICAL SOCIETY (at University College), at 8.—L. C. Wharton: Slav Philologists' Congress.
- ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Sir Ernest Rutherford: The Transmutation of Matter.
- INSTITUTION OF ELECTRICAL ENGINEERS (West Wales (Swansea) Sub-Centre).

SATURDAY, MARCH 29.

- BRITISH MYCOLOGICAL SOCIETY (in Botany Department, University College), at 11 A.M.—Miss E. M. Blackwell and Miss G. M. Waterhouse: Spores and Spore Germination in the Genus *Phytophthora*.—Miss M. Brett: *Stemphylium-Alternaria*.—K. St. G. Cartwright: The Study of Basidiomycetes in Culture.—S. Dickinson: The Genetics of the Smut Fungi.—Exhibition by S. P. Wiltshire on The Preservation of Petri Dish Cultures of Fungi.
- ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir Ernest Rutherford: Atomic Nuclei and their Structure (4).

MONDAY, MARCH 31.

- INSTITUTE OF ACTUARIES, at 5.—C. F. Wood: Experiments in Modified Forms of Select Mortality Tables.
- INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—Capt. P. P. Eckersley and others: Discussion on Loud-Speakers.
- ROYAL SOCIETY OF ARTS, at 8.—Comdr. F. G. Cooper: Aids to Navigation (Thomas Gray Lectures) (2).

TUESDAY, APRIL 1.

- ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Dr. C. Singer: The Passage from Medieval to Modern Science (4): The Scientific Crux.
- ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—Major R. W. G. Hingston: In the Tree Roof of the Guiana Forest.—Prof. A. Meek: Further Notes on *Bipinnaria asterigera* from the Northumberland Plankton (Echinoderma).—Nellie F. Paterson: The Bionomics and Morphology of the Early Stages of *Paraphaedon tumidulus* Germ. (Coleoptera, Phytophaga, Chrysomelidae).—C. P. Gnanamuthu: The Anatomy and Mechanism of the Tongue of *Chamaeleon carcaratus* (Merrem).—J. Omer-Cooper: Report on the Gyridae (Coleoptera) collected during Dr. Hugh Scott's and Mr. Omer-Cooper's Expedition to Abyssinia.
- LONDON NATURAL HISTORY SOCIETY (at Winchester House, E.C.), at 6.30.—A. D. Middleton: Red and Grey Squirrels.
- INSTITUTION OF ELECTRICAL ENGINEERS (North-Western Centre) (at Engineers' Club, Manchester), at 7.—H. A. Humphrey, D. M. Buisst, and J. W. Bansall: The Imperial Chemical Industries Limited's Steam and Electric Power Plant at Billingham.
- ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—H. Pickwell: The Pilgrim's Way.
- INSTITUTION OF AUTOMOBILE ENGINEERS (at Royal Society of Arts), at 7.30.—Capt. J. S. Irving: Some Problems Encountered and Overcome in the Design and Construction of the *Golden Arrow*.—J. H. Hyde and Dr. F. Aughtie: Measurements made of the Power and Efficiency of a Motor Lorry Gear Box.
- LEICESTER LITERARY AND PHILOSOPHICAL SOCIETY (Chemistry Section) (Annual General Meeting) (at Leicester Museum), at 8.

WEDNESDAY, APRIL 2.

- INSTITUTION OF ELECTRICAL ENGINEERS (Wireless Section), at 6.—R. H. Barfield: Recent Developments in Direction-Finding Apparatus. (Part 1. Medium Wave Apparatus, 250-600 metres. Part 2. Short Wave Apparatus, 12-60 metres.)
- INSTITUTION OF ELECTRICAL ENGINEERS (Tees-Side Sub-Centre) (Annual General Meeting) (at Cleveland Technical Institute, Middlesbrough), at 7.—At 7.30.—L. C. Grant: The Breaking Performance of High-Power Switchgear and of a New Form of Quenched-Arc Switch.
- SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS (at Chemical Society), at 8.—Prof. M. Eldin Bey: The Detection and Identification of Alkaloids in the Saliva and Salivary Glands.—Ella M. Collin: The Separation of Cadmium and Copper in Spelter and Zinc Ores by Internal Electrolysis.—A. F. Lerrigo: The Routine Detection of Nitrites in Milk.—Dr. J. C. Ghosh: A Method for the Determination of Titanium as Phosphate.
- ROYAL SOCIETY OF ARTS, at 8.
- ROYAL SOCIETY OF MEDICINE (Anaesthetics Section) (Reception at Wellcome Historical Medical Museum), at 8.30.—Lord Dawson of Penn: Henry Hill Hickman.
- ROYAL SOCIETY OF MEDICINE (Surgery Section), at 8.30.—C. M. Page, P. J. Verrall, Dr. R. D. Langdale-Kelhan, and Capt. A. R. Maxwell: Discussion on Amputations and their Relation to the Artificial Limb.
- ROYAL MICROSCOPICAL SOCIETY (Biological Section).

THURSDAY, APRIL 3.

- INSTITUTION OF CHEMICAL ENGINEERS (Annual Corporate Meeting) (at St. Ermins, Westminster), at 3.—Dr. J. T. Dunn and Dr. B. Moore: Pulverised Fuel.
- LINNEAN SOCIETY, at 5.—H. Lister: Some Observations on the Comparative Morphology of the Protozoan Fauna, etc.—Prof. H. S. Holden: Some Wound Reactions in *Akyropteris corrugata*.—Dr. J. M. Cowan: Botanical Exploration through North-west Persia.
- ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. J. B. S. Haldane: Some Problems of Genetics.
- ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 6.30.—P. Grimault: Operation of the Aero-Postale Service in Europe.
- CHEMICAL SOCIETY, at 8.—Prof. C. S. Gibson, A. R. Penfold, and J. L. Simonsen: The Essential Oil of *Baccharis Angustifolia*. Part II. The Isolation of Naturally Occurring β -diketones: Angustione and Dehydroangustione.—Miss F. M. Hamer: Attempts to Prepare Cyanine Dyes from Quaternary Salts of 2-methylacetylpyridine and of *m*-methylacridine.—Prof. C. S. Gibson, E. S. Hiscocks, J. D. A. Johnson, and J. L. Jones: 10-Chloro-5:10: Dihydrophenarsazine and its Derivatives. Part XII. Absorption Spectra.—R. W. Aldis and Prof. J. C. Phillip: The Production of Fog in the Neutralisation of Alkali with Hydrogen Halides. Part II. The Significance of the Presence of Ammonia.
- OPHTHALMOLOGICAL SOCIETY.—Sir Arthur Keith: The Genius of William Bowman (Bowman Lecture).

FRIDAY, APRIL 4.

- INSTITUTION OF CHEMICAL ENGINEERS (Annual Corporate Meeting) (at Hotel Victoria, Northumberland Avenue), at 11.30 A.M.—Presentation of Medals: The Moulton Medal, The Junior Moulton Medal, The Osborne Reynolds Medal.—At 12.15.—J. A. Reavell: The Role of Science in Industry (Presidential Address).—At 2.15.—H. Tongue: The High Pressure Equipment of the Chemical Research Laboratory, Teddington.
- ROYAL SOCIETY OF ARTS (Indian Section), at 4.30.—Lieut.-Col. Sir Wolsey Haig: The Maratha Nation (Sir George Birdwood Memorial Lecture).
- FEDERAL COUNCIL FOR CHEMISTRY (at Burlington House), at 4.30.
- NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (at Mining Institute, Newcastle-upon-Tyne), at 6.—A. Read: Ship's Electrical Deck Auxiliaries.
- SOCIETY OF CHEMICAL INDUSTRY (Birmingham and Midland Section) (Annual Meeting) (at Chamber of Commerce, Birmingham), at 6.30.—At 7.—A. R. Warnes: Some Little Known Causes of Stone Decay.
- SOCIETY OF CHEMICAL INDUSTRY (Manchester Section) (Annual General Meeting) (at Engineers' Club, Manchester), at 7.—Major A. G. Church: The Attitude of the Government towards Scientific Research.
- INSTITUTION OF ELECTRICAL ENGINEERS (Meter and Instrument Section), at 7.—Dr. E. H. Rayner, W. G. Standing, R. Davis, and G. W. Bowdler: Studies in Low-Power-Factor Measurements at High Voltages.
- INSTITUTION OF MECHANICAL ENGINEERS (Informal Meeting), at 7.—A. L. Stanton and others: Discussion on Smoke.
- ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Pictorial Group), at 7.—Informal Meeting.
- JUNIOR INSTITUTION OF ENGINEERS (Informal Meeting), at 7.30.—W. M. Hurrell: Visits to Iceland and other Places.
- GEOLOGISTS' ASSOCIATION (at University College), at 7.30.—A. L. Leach: Geological Structure and British Coastal Scenery (Lecture).—A. L. Leach and A. C. Young: On a Section in River Ravensbourne Valley Gravels at Lewisham.—A. L. Leach: Recent Excavations in the Shooters Hill Gravel.
- SOCIETY OF CHEMICAL INDUSTRY (Liverpool Section) (Annual Meeting) (at Liverpool University).—A. H. Amery: Methods of Extracting Oil from Seed.

SATURDAY, APRIL 5.

- GILBERT WHITE FELLOWSHIP (Annual General Meeting) (at 6 Queen Square, W.C.1.), at 2.30.—At 3.—Sir Richard Gregory: Primitive Astronomy (Lecture).
- MINING INSTITUTE OF SCOTLAND (at Glasgow).—Annual Meeting.

PUBLIC LECTURE.

SATURDAY, MARCH 29.

- HORNIMAN MUSEUM (Forest Hill), at 3.30.—J. E. Dallas: June Flowers in Alpine France.