

Report of the Aeronautical Research Institute, Tôkyô Imperial University. No. 22: Studies on Inflammability of Hydrogen. i: Influence of Ethyle Bromide on the Limits of Inflammability of Hydrogen-Air Mixtures. By Yoshio Tanaka and Yûzaburo Nagai. Pp. 249-255. 0.20 yen. No. 23: Studies on Inflammability of Hydrogen. ii: Influence of Organic Bromine and Iodine Compounds on the Upper Limit of Inflammability of Hydrogen-Air Mixtures. By Yoshio Tanaka and Yûzaburo Nagai. Pp. 259-261. 0.12 yen. (Tôkyô: Koseikai Publishing Office.)

Proceedings of the United States National Museum. Vol. 71, Art. 10: Notes on Fishes obtained in Sumatra, Java, and Tahiti. By Henry W. Fowler and Barton A. Bean. (No. 2632.) Pp. 15. (Washington, D.C.: Government Printing Office.)

Smithsonian Institution: United States National Museum. Bulletin 135: Life Histories of North American Marsh Birds; Orders Odontoglossae, Herodiones and Paludicolae. By Arthur Cleveland Bent. Pp. xii+490+98 plates. (Washington, D.C.: Government Printing Office.) 1.25 dollars.

Smithsonian Miscellaneous Collections. Vol. 78, No. 7: Explorations and Field-Work of the Smithsonian Institution in 1926. (Publication 2912.) Pp. iv+259. Vol. 80, No. 2: A Group of Solar Changes. By C. G. Abbot. (Publication 2916.) Pp. ii+16. (Washington, D.C.: Smithsonian Institution.)

Práce Moravské Přírodovědecké Společnosti, Brno, Československo. Svazek 2, Spis 11-20, 1925. Pp. iii+782. 120 Kč. Spisy Lékařské Fakulty Masarykovy University, Brno, Československá Republika. Svazek 4, Spis 33-40, 1926. Pp. iii+26+19+26+30+14+100+44+12. 40 Kč. Spisy vydávané Přírodovědeckou Fakultou Masarykovy University. Rok 1927, Čís. 80: O přechodu diferenciální rovnice hypergeometrické v diferenciální rovnici Gaussovu (Sur le passage de l'équation hypergéométrique aux différences finies à l'équation différentielle de Gauss). Napsal Jos. Kaucký. Pp. 43. Rok 1927, Čís. 81: Était l'Ousboi pendant les temps historiques un ancien lit de l'Amou-Daria? Par Pr. Kolářek. Pp. 8. Sborník Vysoké Školy Zemědělské v Brně, CSR. Sign. C9: Váha semen pšenič trav a její vztahy ke klíčení a vývoji klíčící rostlinky (Les poids des graines des graminées fourragères et son influence sur la germination et le développement de la plante en germination). Napsal Josef Nadvorník. Pp. 65. Sign. D4: Nejlepší dusíkatá živina rostlinná (Le meilleur engrais azoté des plantes). Napsal Dr. Gustav Vincent. Pp. 66. Sign. D5: Seznam slovenského ptačtva (Avium in Slovenia adhuc cognitarum enumeratio systematica). Napsal Prof. Josef Jirsík. Pp. 67. (Brno: A. Piša.)

#### CATALOGUES.

The Complete Catalogue of Chatto and Windus, 1927. Pp. 96. (London: Chatto and Windus.)

Supplement to List No. 157: Cambridge Illuminated Dial CO<sub>2</sub> Indicator. Pp. 2. (London: Cambridge Instrument Co., Ltd.)

Annotated and Classified Catalogue of Rare and Standard Works on Astronomy, comprising Chronology, Geodesy, Horology, Dialling and other collateral Subjects. (No. 804.) Pp. 240. (London: Henry Sothoran and Co.) 2s. 6d. net.

Microscopes and their Accessories. Part 4: Instruments for Metallurgy. Thirty-first edition. Pp. 56. (London: W. Watson and Sons, Ltd.)

Standard Catalogue of Scientific Apparatus. 1927 edition. Vol. 3: Biological Sciences. Pp. xxiv+501. Technical Research Series, No. 2: Apparatus required for the Testing of Petroleum Products. Pp. 44. Technical Research Series, No. 5: Analysis of Coal and its By-Products. Pp. xvi+136. (London: Baird and Tatlock (London), Ltd.)

## Diary of Societies.

### SATURDAY, JUNE 18.

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS, at 2.30.

PHYSIOLOGICAL SOCIETY (at Middlesex Hospital Medical School), at 4.—Demonstrations:—Prof. Swale Vincent and F. R. Curtis: The Adrenal Bodies of Teleostean Fishes (Microscopical Demonstration).—S. Wright and M. Kremer: Partition Coefficient of Ethyl Iodide.—J. Lee Warner: Interaction between Pituitrin and Insulin.—Communications:—R. D. Lawrence: A Relationship between Body Temperature and Blood Sugar in Rabbits.—A. R. Fee, A. Hemingway, and Prof. E. H. Starling: The Oxygen Usage of the Isolated Kidney.—R. K. Christy: A Chloride Shift between Blood and Tissues.—L. J. J. Muskens: On the Part played by the Supra-vestibular Connexions in Decerebrate Rigidity.—Prof. Swale Vincent and M. Kremer: Further Observations on Vaso-motor Reflexes.—S. Wright: Observations on the Ethyl Iodide Method for Determining the Circulation Rate.—T. Izod Bennett: Observations Concerning the Action of 'Synthalin' in Affecting Glycosuria in Human Subjects.—M. Kremer: On the Effect of Pituitrin on Renal Secretion in a Decerebrate Animal.—W. A. H. Rushton: The Dependence of the Threshold for Nervous Excitation upon the Position of the Electrodes.

ASSOCIATION OF ECONOMIC BIOLOGISTS (at South Eastern Agricultural College, Wye).

NEWCOMEN SOCIETY FOR THE STUDY OF THE HISTORY OF ENGINEERING AND TECHNOLOGY (Summer Meeting).

### MONDAY, JUNE 20.

ROYAL SOCIETY OF EDINBURGH, at 4.30.—Prof. T. J. Jehu and R. M. Craig: Geology of the Outer Hebrides. Part IV, South Harris.—Dr. R. Campbell and Dr. J. W. Lunn: The Tholeiites of the Dalnahaoy Syncline (Edinburgh District).—Dr. C. Crossland: Marine Geology and Coral Formations in the Panama Region, Galapagos, and the Marquesas Islands, and the Atoll of Napuka.—W. G. Thomson: On

the Discharge of a Condenser through a Gas at Low Pressure.—Prof. E. L. Ince: Researches into the Characteristic Numbers of the Mathieu Equation (third paper) (to be read by title).

ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Prof. W. G. de Burgh: The Significance of the Argument from Design.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (jointly with Institution of Engineers and Shipbuilders in Scotland) (Summer Meeting) (at Glasgow), at 8.—Conversazione.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS (Summer Meeting) (at Bournemouth).

### TUESDAY, JUNE 21.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (jointly with Institution of Engineers and Shipbuilders in Scotland) (Summer Meeting) (at Glasgow), at 10.30 A.M.—J. Mollison: Historical References to the Progress in the Use of High-Pressure Steam.—C. Le Maistre: The Trade Value of Simplification and Standardisation in the Details of Ships and their Machinery.

ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Sir Frederick Gowland Hopkins: The Task of Biochemistry (Croonian Lectures).

ROYAL STATISTICAL SOCIETY (at Royal Society of Arts), at 5.15.—D. Caradog Jones: Pre-War and Post-War Taxation.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS (Summer Meeting) (at Bournemouth).

### WEDNESDAY, JUNE 22.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (jointly with Institution of Engineers and Shipbuilders in Scotland) (Summer Meeting) (at Glasgow), at 10 A.M.—J. McGovern: Economy in Shipbuilding: Some Lines of Progress.—F. L. MacLaren: Motor Yachts and Motor Yachting on the Clyde.

INSTITUTION OF WELDING ENGINEERS (at Engineers' Club, Coventry Street, W.), at 8.—A. H. Goodger: The Red-Shortness of Weld Metal.

INSTITUTION OF HEATING AND VENTILATING ENGINEERS (Summer Meeting) (at Bournemouth).

### THURSDAY, JUNE 23.

ELECTRICAL ASSOCIATION FOR WOMEN (Visit to Showrooms of Hailwood and Ackroyd, 98 Mansell Street, E.1), at 3.—Mr. Hailwood: The Manufacture of English Glassware.

ROYAL SOCIETY, at 4.30.—A. Caress and Dr. E. K. Rideal: The Combination of Nitrogen and Hydrogen activated by Electrons.—W. T. Astbury: A Simple Radio-active Method for the Photographic Measurements of the Integrated Intensity of X-Ray Spectra.—J. F. Lehmann and J. H. Osgood: The Total Ionisation due to the Absorption in Air of Slow Cathode Rays.—J. F. Lehmann: The Absorption of Slow Cathode Rays in Various Gases.—To be read in title only.—

Prof. O. W. Richardson and F. S. Robertson: The Emission of Soft X-Rays by Different Elements.—Prof. E. V. Appleton and J. Ratcliffe: On the Nature of Wireless Signal Variations. 1.—L. H. Martin: The Efficiency of K Series Emission by K Ionised Atoms.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (jointly with Institution of Engineers and Shipbuilders in Scotland) (Summer Meeting) (at Glasgow).

### FRIDAY, JUNE 24.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science), at 5.—Sybil Marshall: Newton's Law for the Emission of Heat in Carbon Dioxide.—S. R. Humby: Some Experiments with Sound Waves of High Frequency.—J. J. Manley: Some Additional Refinements for Precision Balances.—Demonstration of the Use of a Magnetron to demonstrate the Rise of Current in an Inductive Circuit, by Dr. D. Owen.

### PUBLIC LECTURE.

#### SUNDAY, JUNE 19.

GUILDHOUSE (Eccleston Square, S.W.), at 3.30.—C. I. Woolley: Recent Discoveries at Ur.

### CONVENTION.

#### JUNE 20 to 23.

BRITISH PHARMACEUTICAL CONFERENCE (Annual Conference of the Pharmaceutical Society of Great Britain) (at Brighton).

Monday, June 20.—Reception by the Mayor of Brighton.

Tuesday, June 21.—Welcome by the Mayor of Brighton. Address by the Chairman of the Conference. Science Meetings. Delegates' Meeting.

Wednesday, June 22.—Science Meeting. Delegates' Meeting.

Thursday, June 23.—Visit to Eastbourne.

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