

## Forthcoming Events.

## Societies.

## FRIDAY, JANUARY 8.

- ROYAL GEOGRAPHICAL SOCIETY, at 3.30.—Mrs. Murray Chapman: Through Lapland in Winter with Sledge and Reindeer (Christmas Lecture for Young People).  
 INSTITUTION OF MECHANICAL ENGINEERS, at 6.—S. B. Freeman: Modern Types of Propelling Machinery for Mercantile Marine Use (Thomas Lowe Gray Lecture).  
 GEOLOGISTS' ASSOCIATION (at University College), at 7.30.—Dr. W. F. Whittard: An Expedition to East Greenland, 1929 (Lecture).

## SATURDAY, JANUARY 9.

- ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir William Bragg: The Universe of Light (Christmas Lectures) (6): Light from the Sun and the Stars.

## TUESDAY, JANUARY 12.

- PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, at 8.30.—W. Deacon: The Romance of Perfumes (Lecture).

## WEDNESDAY, JANUARY 13.

- ROYAL SOCIETY OF ARTS, at 3.—Prof. E. N. da Costa Andrade: The Vacuum, or the Importance of Nothing at All (Dr. Mann Juvenile Lectures) (2).

## THURSDAY, JANUARY 14.

- ROYAL GEOGRAPHICAL SOCIETY, at 4.—Revision of Bye-Laws.—At 5.—Geographical Film.  
 LONDON MATHEMATICAL SOCIETY (at Royal Astronomical Society), at 5.—Discussion on Generalisations of Fourier's Integral.  
 INSTITUTION OF CIVIL ENGINEERS (Birmingham and District Association) (at Chamber of Commerce, Birmingham), at 6.—N. G. Gedye: The Mechanical Handling of Coal at Ports (Vernon Harcourt Lecture).

## FRIDAY, JANUARY 15.

- SOCIETY OF CHEMICAL INDUSTRY (South Wales Section) (jointly with Institute of Chemistry—South Wales Section) (at National Oil Refineries, Skewen), at 7.—Dr. A. E. Dunstan: Liquid Fuels To-day and To-morrow (Lecture).

## Public Lectures.

## FRIDAY, JANUARY 8.

- IMPERIAL COLLEGE OF SCIENCE (Royal College of Science), at 5.30.—Dr. T. M. Finlay: The Evolution of Landscape: Vulcanism (Swiney Lectures) (2).

## MONDAY, JANUARY 11.

- IMPERIAL COLLEGE OF SCIENCE (Royal College of Science), at 5.30.—Dr. T. M. Finlay: The Evolution of Landscape: Vulcanism (contd.) (Swiney Lectures) (3).

## WEDNESDAY, JANUARY 13.

- IMPERIAL COLLEGE OF SCIENCE (Royal College of Science), at 5.30.—Dr. T. M. Finlay: The Evolution of Landscape: Vulcanism and Landscape (Swiney Lectures) (4).  
 BELFAST MUSEUM AND ART GALLERY, at 8.—Prof. J. Kaye Charlesworth: Crystals.

## THURSDAY, JANUARY 14.

- SCIENCE MUSEUM, SOUTH KENSINGTON, at 4.30.—D. Brunt: Meteorology in History.

## FRIDAY, JANUARY 15.

- UNIVERSITY COLLEGE, at 5.—Dr. A. S. Parkes: The Physiology of Reproduction. (Succeeding Lectures on Jan. 15, 22, and 29, and Feb. 5, 12, and 19.)—G. P. Wells: Comparative Physiology. (Succeeding Lectures on Jan. 15, 22, 29, Feb. 5, 12, 19, 26, and March 4, 11, and 18.)  
 IMPERIAL COLLEGE OF SCIENCE (Royal College of Science), at 5.30.—Dr. T. M. Finlay: The Evolution of Landscape: The Instability of the Earth (Swiney Lectures) (5).

## Exhibition.

JANUARY 11 (CONTINUING FOR A MONTH).

- ROYAL METEOROLOGICAL SOCIETY (at Science Museum, South Kensington).

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## Discussion.

## JANUARY 12 AND 13.

- FARADAY SOCIETY (in Biochemical Laboratory, Oxford).—General Discussion on The Adsorption of Gases.  
 Jan. 12, 2.30 to 6.—Prof. H. S. Taylor: General Introduction: The Adsorption of Gases.  
 Section I. Experimental Methods.—Prof. E. K. Rideal: Introductory Paper.  
 Prof. J. A. Becker: The Use of Thermionics in the Study of Adsorption of Vapours and Gases.  
 Dr. H. Cassel: The Thickness of Adsorbed Films on Mercury.  
 Dr. H. Dohse and Prof. H. Mark: On Mixture Isotherms at Active Points.  
 Dr. J. Chariton, Dr. A. Schalnikoff, and Prof. N. Semenov: On the Behaviour of Adsorbed Atoms.  
 Dr. F. P. Burt: Sorption of Gases by Glass.  
 C. N. Hinshelwood: The Rôle of Surface Adsorption in Chain Reactions.  
 Prof. F. G. Tryhorn and W. F. Wyatt: Adsorption of Saturated Vapours by Porous Substances. Experimental Methods.  
 Jan. 13, 9.30 A.M. to 1 P.M.  
 Section II. Kinetics and Energetics.—Prof. H. Freundlich: Introductory Paper.  
 Prof. K. F. Bonhoeffer and Dr. A. Farkas: On Adsorption and Reflection Processes in the Interchange of Hydrogen and Metals.  
 Dr. W. Frankenburg: New Experiments in the Adsorption of Hydrogen, Nitrogen, and Ammonia on Metallic Tungsten and the Mechanism of Catalytic Ammonia Decomposition by this Metal.  
 Prof. A. F. Benton: Adsorption and Solution of Gases by Metals.  
 Prof. A. J. Allmand, W. J. Burrage, and R. Chaplin: Discontinuities in Adsorption Processes.  
 Dr. F. H. Constable: The Kinetics of Adsorption in Relation to Reaction Velocity.  
 A. R. Ubbelohde: The Occlusion of Hydrogen by Palladium.  
 A. C. G. Egerton and A. R. Ubbelohde: The Occlusion of Hydrogen by Palladium, Part II.  
 A. R. Ubbelohde: The Influence of Nuclear Spin on the Sorption of Hydrogen on Charcoal.  
 Dr. E. B. Maxted and N. J. Hassid: The Kinetics of the Adsorption of Hydrogen on Platinum and Nickel.  
 Prof. W. E. Garner: The Heats of Adsorption and the Kinetics of Adsorption.  
 F. E. T. Kingman: The Adsorption of Hydrogen on Charcoal.  
 Prof. H. S. Taylor and A. Sherman: Activated Adsorption and the Para-Hydrogen Conversion.  
 H. W. Thompson: The Explosive Combination of Hydrogen and Oxygen. The Function of Water in Gaseous Reactions.  
 2.30 to 4.30.  
 Section III. Theories of Adsorption.—Prof. M. Polanyi: Introductory Paper.  
 Prof. M. Volmer: The Migration of Adsorbed Molecules on Surfaces of Solids.  
 Dr. R. H. Fowler: Theories of Adsorption of Gases. Quantum Mechanics of the Reversible Electrolytic Cell and of Electrolysis.  
 Prof. E. Hückel: Theory of Heat Evolved in Capillary Condensation.  
 Prof. A. Magnus: The Electrical Theory of Gaseous Adsorption.  
 Dr. J. K. Roberts: The Interchange of Energy in Collisions between Gas Atoms and Solid Surfaces.  
 A. F. H. Ward: The Suggested Existence of Activated Adsorption.  
 Prof. J. W. McBain: Persorption and Mono-molecular Sieves.  
 Dr. Schuster: Hydrogenation of Adsorbed Ethylenic Hydrocarbons.  
 C. Evans: Deviations from the "Ideal" Translation Motion of Adsorbed Molecules.