

in two directions, one giving ethylene, the other the magnesium compound $\text{CH}_2(\text{MgI})_2$. The latter gives methane on treatment with water.—**Alfred Carpentier**: The extension of the Weald in the north of France.—**A. Maige**: Observations on the amylogenesis in the cotyledons of the pea.—**F. Henrijean**: The signification of the electrocardiogram.—**René Hazard** and **Raymond Hamet**: The circulatory action of pseudo-pelletierine.—**H. Barthélemy**: Comparative influence of the pH and the saline concentration on the duration of survival of the spermatozooids of *Rana fusca*.—**Mme. Anna Drzewina** and **Georges Bohn**: The activation by light of the effects of silver on *Convoluta*. The destruction of *Convoluta* by metallic silver in water is partially dependent upon light. In a strong light the poisonous action is much more rapid.—**René Fabre**: Cholesterol allophanate and its use in biological chemistry. The preparation and properties of cholesterol allophanate is described: it may prove useful in various problems in biological chemistry.—**Constantino Gorini**: The action of *B. typhosus* on milk.

Diary of Societies.

SATURDAY, NOVEMBER 20.

BRITISH MYCOLOGICAL SOCIETY (at University College), at 11 A.M.—**W. R. Ivimey Cook**: The Genus *Ligniera*.—**Prof. O. V. Darbishire**: *Isidia* and *Soredia* of the Lichen *Peltigera*.—**W. J. Dowson**: An Extraordinary Botrytis causing a Disease of Narcissus Leaves.—**W. A. Roach**: On the Nature of Disease Resistance in Plants, with Special Reference to Wart Disease of Potatoes.—**Miss A. Lorrain Smith**: A New Family of Lichens.

ROYAL SANITARY INSTITUTE (at Town Hall, Colchester), at 11 A.M.—Discussions on Rheumatism in School Children and The Plan and Design of a Public Elementary School.

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS (Associates and Students Section) (at Neville Hall, Newcastle-upon-Tyne), at 8.—**L. F. H. Booth**: Screening and Washing Plant at Deaf Hill Colliery.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—**Rev. E. M. Walker**: The Study of History (3).

INSTITUTE OF BRITISH FOUNDRYMEN (Lancashire Branch, Junior Section) (at College of Technology, Manchester), at 7.—**A. H. Goodger**: The Foundry Cupola.

HULL ASSOCIATION OF ENGINEERS (at Technical College, Hull), at 7.15.—**O. C. Dinermann**: Starters for Alternating-current Motors.

MONDAY, NOVEMBER 22.

CAMBRIDGE PHILOSOPHICAL SOCIETY (in Cavendish Laboratory, Cambridge), at 4.30.—**Dr. H. W. B. Skinner**: On the Polarisation of Mercury Lines Emitted from a Discharge Tube in a Magnetic Field.—**C. F. Shuman**: The Application of the Method of the Magnetic Spectrum to the Study of Secondary Electronic Emission.—**L. H. Thomas**: The Calculation of Atomic Fields.—**L. Wertenstein**: A Contribution to the Theory of Diffusion Pumps.—*To be communicated by title only*.—**W. Burnside**: On a Group of Order 25920 and the Projective Transformations of a Cubic Surface.—**Dr. P. A. M. Dirac**: The Compton Effect in Wave Mechanics.—**J. B. S. Haldane**: A Mathematical Theory of Natural and Artificial Selection. Part IV.—**R. Hargreaves**: Geodetic and Dynamical Principles, a Comparison and Connexion.—**G. C. Steward**: On the Addition of the Primary Aberrations.

INSTITUTION OF ELECTRICAL ENGINEERS (Informal Meeting), at 7.—**J. F. Shipley** and others: Discussion on Comparative Electrical Progress in European Countries.

INSTITUTION OF ELECTRICAL ENGINEERS (North-Eastern Centre) (Informal Meeting) (at Sopwith's Lounge, Newcastle-upon-Tyne), at 7.

INSTITUTION OF ELECTRICAL ENGINEERS (Mersey and North Wales (Liverpool) Centre) (at Liverpool University), at 7.—**J. R. Beard** and **T. G. N. Haldane**: The Design of City Distribution Systems and the Problem of Standardisation.

INSTITUTION OF MECHANICAL ENGINEERS (Graduates' Section, London), at 7.—**Lt.-Col. E. Kitson Clark**: Archeological Engineering (Lecture).

ROYAL SOCIETY OF ARTS, at 8.—**Prof. H. L. Callendar**: Recent Experiments on the Properties of Steam at High Pressure (II).

CHEMICAL INDUSTRY CLUB, at 8.—**C. S. Garland**: The Incandescent Gas-Mantle Industry.

ROYAL SOCIETY OF MEDICINE (Odontology Section), at 8.—**Dr. E. W. Fish**: Further Notes on the Lymph Supply of Enamel and Dentine.

ROYAL GEOGRAPHICAL SOCIETY (at Eolian Hall), at 8.30.—**C. Gillman**: South-West Tanganyika Territory.

MEDICAL SOCIETY OF LONDON, at 8.30.—**Dr. C. Riviere** and **J. E. Roberts**: The Treatment and Diagnosis of Bronchiectasis.

TUESDAY, NOVEMBER 23.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—**Sir William Bragg**: The Imperfect Crystallisation of Common Things (I).

INSTITUTION OF AUTOMOBILE ENGINEERS (Informal Meeting) (at 83 Pall Mall, S.W.1), at 7.—**Inventors' Evening**. Discussion of Motor Car Devices not yet on the Market.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN (Kinematograph Group), at 7.—**Lecture**.

SOCIETY OF CHEMICAL INDUSTRY (South Wales Section) (jointly with South Wales and Bristol Sections of Institution of Civil Engineers and South Wales Section of Society of Chemical Industry) (at Technical College, Cardiff), at 7.30.—**T. M. McKenzie**: Asphaltic Roads.

ROYAL ANTHROPOLOGICAL INSTITUTE (jointly with English Folk-Dance Society and Folk-Lore Society) (at Royal College of Music, South Kensington), at 8.30.—**Miss Violet Alford**: The Ritual Dance.

BRITISH PSYCHOLOGICAL SOCIETY (Medical Section) (at Royal Society of Medicine), at 8.30.—**Dr. B. Gluck**: Current Tendencies in American Criminology.

WEDNESDAY, NOVEMBER 24.

ROYAL INSTITUTE OF PUBLIC HEALTH, at 4.—**Dr. C. W. Saleeby**: From Heliotherapy to Heliohygiene.

INSTITUTION OF AUTOMOBILE ENGINEERS (Manchester Centre) (at Engineers' Club, Manchester), at 7.—**J. E. Southcombe**: Recent Research on Friction and Lubrication.

INSTITUTION OF ELECTRICAL ENGINEERS (North-Eastern Centre) (at Literary and Philosophical Society, Newcastle-upon-Tyne), at 7.—**Prof. W. M. Thornton**: What is Electricity? (Faraday Lecture).

ROYAL SOCIETY OF ARTS, at 8.—**W. S. Bradley**: Industrial Welfare in Practice.

EUGENICS SOCIETY (at Royal Society), at 8.30.—**Mrs. S. Gretton**: Oxford Village Pedigrees.

THURSDAY, NOVEMBER 25.

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—**Dr. R. R. Marett**: The Archaeology of the Channel Islands—Neolithic and Bronze Ages.

ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section), at 5.30.—**Dr. R. Ackerley**: Presidential Address.

INSTITUTION OF AUTOMOBILE ENGINEERS (Luton Graduates' Meeting) (at Luton), at 7.30.—**T. T. Brown**: Lubrication.

ROYAL SOCIETY OF MEDICINE (Urology Section), at 8.30.—**Clinical Pathological Meeting**.

INSTITUTION OF MECHANICAL ENGINEERS (at Bristol).—**Prof. E. G. Coker**: Elasticity and Plasticity (Thomas Hawksley Lecture).

FRIDAY, NOVEMBER 26.

SOCIETY OF CHEMICAL INDUSTRY (Manchester and Fuel Sections) (at Municipal College of Technology, Manchester), at 10 A.M.—**Tar Symposium**.

DIESEL ENGINE USERS' ASSOCIATION (at Caxton Hall), at 3.30.—**R. L. Quertier**: Modern Air Compressor Practice in Oil Engine Installations.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science and Technology), at 5.—**H. C. Hepburn**: Electro-endosmosis and Electrolytic Water Transportation.—**L. Hartshorn**: The Input Impedance of Thermionic Valves at Low Frequencies.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (at Newcastle-upon-Tyne), at 6.—**Dr. E. V. Telfer**: The Practical Analysis of Merchant Ship Trials and Service Performance.

INSTITUTION OF ELECTRICAL ENGINEERS (London Students' Section), at 6.15.—**H. J. D. Palfrey**: The Measurement of Light.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—**Col. the Master of Sempill**: Petrol and its Substitutes for use in Internal Combustion Engines.

MANCHESTER LITERARY AND PHILOSOPHICAL SOCIETY (Chemical Section).

SATURDAY, NOVEMBER 27.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—**Dr. G. C. Simpson**: Atmospheric Electricity (1).

PUBLIC LECTURES.

SATURDAY, NOVEMBER 20.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—**H. MacLeod**: Eclipses of the Sun.

SUNDAY, NOVEMBER 21.

GUILDHOUSE (Eccleston Square), at 3.30.—**Dr. G. C. Simpson**: Meteorology in the Service of Man.

MONDAY, NOVEMBER 22.

SHEFFIELD UNIVERSITY, at 7.30.—**H. E. Stilgoe**: Water Supply and its relation to Public Health (Chadwick Lecture).

TUESDAY, NOVEMBER 23.

GOLDSMITHS' HALL, at 4.—**Prof. J. S. Huxley**: Biology and Human Life (Norman Lockyer Lecture).

KING'S COLLEGE, at 5.30.—**Miss Hilda D. Oakeley**: Modern Theories of the Nature of Value in Psychology and Philosophy. (Succeeding Lecture on November 30.)

WEDNESDAY, NOVEMBER 24.

UNIVERSITY COLLEGE, at 5.30.—**Dr. W. D. Johnston**: The Library of Congress, its Functions as a National Library.

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE, at 6.—**G. W. Mayne**: The Monroe Calculating Machine.

THURSDAY, NOVEMBER 25.

COLLEGE OF NURSING (Henrietta Street, W.), at 5.30.—**Dr. Mary Buchan Donie**: The Adolescent and Social Hygiene from the Standpoint of the Home.

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, at 5.30.—**Brig.-Gen. H. Hartley**: Chemical Warfare.

FULHAM CENTRAL PUBLIC LIBRARY, at 8.—**A. D. Allen**: Home-Grown Food.

SATURDAY, NOVEMBER 27.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—**J. E. S. Dallas**: Nature in Southern England.

SUNDAY, NOVEMBER 28.

GUILDHOUSE (Eccleston Square), at 3.30.—**Viscount Haldane**: The Wider Meaning of Relativity.

CONFERENCE.

FRIDAY, NOVEMBER 26.

TAR CONFERENCE (at the College of Technology, Manchester), at 10.30 A.M.—**F. S. Sinnatt** and **Dr. J. G. King**: A Study of Tars and Oils obtained from Coal.—**W. G. Adam**: A Plan for Standardisation of Analytical Methods in Coal Tar Products Specifications.—**H. M. Spiers**: (a) The Viscosity of Tar; (b) The Consistency of Bitumen Mixtures.—**At 2**.—**Dr. A. Parker**: Tar from Steamed Vertical Retorts.—**J. McLeod**: Notes on Vertical Retort Tar.—**M. Barash**: The Production of Road Tar from Vertical Retorts.—**H. Hollings**: The Influence of Carbonising Conditions on the Free Carbon Content of Tar.—**At 5**.—**H. G. Adam** and **H. W. Robinson**: Tar from the Point of View of the Highway Authority.—**A. C. Tait**: Coal Tar Disinfectants.—**H. F. Taylor**: Pitch.