

does not appear to be proved, and the characteristics presented by the allotropy of mercuric iodide can be readily explained by the usually accepted theory.—René Audubert: The action of light on metal electrodes with small solution pressures.—André Graire: The estimation of sulphonic and sulpho-nitrous acids. None of the methods of analysis of commercial products in general use gives satisfactory results. The author gives a preference to the Schloesing method with ferrous chloride.—M. Bourguet: The action of sodium amide on the chlorides derived from an aldehyde or a ketone by the use of phosphorus pentachloride. Sodium amide is a more satisfactory reagent for the removal of hydrochloric acid from these chlorine compounds than dry potash or alcoholic potash. The yields are higher and the products purer.—V. Crémieu: The variation in the composition of gases spontaneously evolved from thermal springs produced by earthquakes.—V. Agafonoff: The limit of the accumulation of humus in soils, with reference to observations on soils of the Nièvre.—G. Pontier: The fossil elephants of England: the mammoth in England and in the North Sea.—V. Lubimenko and Mme. S. Fichtenholz: Contribution to the study of the physiological rôle of the nervation of leaves. The main function of the nervation of the leaf is the mechanical support of the limb. The transport of water is only a minor function.—E. Aubel and R. Wurmser: The formation of glucose at the expense of alanine and of lactic and pyruvic acids. Experiments on dogs proved that 92 per cent. of alanine and lactic acid are transformed by the animal into glucose, but that in the most favourable case only 80 per cent. of the pyruvic acid underwent this transformation.—A. Quidor and Marcel A. Héribel: The psycho-physiology of the visual phenomena in animals.—H. Barthélémy: The impregnation of the uterine eggs of *Rana fusca* and of *Bufo vulgaris* after immersion in water or in aqueous solutions of common salt.—J. Bridré and A. Donatien: The micro-organism of contagious agalaxy and its culture *in vitro*. Cultures of this organism have been made in tubes, details of the technique followed being given. The activity of the cultures was proved by experiments on sheep and goats. The organism was visible after staining by the slow method of Giemsa, after fixing the colour (May-Grünwald).—MM. Brocq-Rousseau, Forgeot, and Urbain: Serotherapy against glanders in the horse.

Official Publications Received.

Ministry of Finance, Egypt: Coastguards and Fisheries Service. Report on the Fisheries of Egypt for the Year 1922. By G. W. Paget. Pp. vi+49. (Cairo: Government Publications Office.) P.T. 5.
University College of North Wales. Calendar for Sessions 1922-23 and 1923-24. Pp. 425. (Bangor.)

Diary of Societies.

MONDAY, NOVEMBER 26.

FARADAY SOCIETY (at Institution of Electrical Engineers), at 8.—General Discussion on Electrode Reactions and Equilibria. Part I. Conditions of Equilibrium at Reversible Electrodes.—Dr. E. K. Rideal: Introductory Address.—The Mechanism of the Reversible Electrode.—Prof. E. Billmann: Oxidation and Reduction Potentials of Organic Compounds.—Dr. J. Heyrovsky: The Process at the Mercury-dropping Cathode. Part I. The Deposition of Metals.—Prof. A. W. Porter: Note on the Standardisation of the Sign of the Potential.—Dr. J. N. Pring: The Determination of Affinity Constants by the Hydrogen and Quinhydrone Electrodes.—Prof. E. Baur: Electrode-Potentials on Non-Aqueous Solutions.—M. Shikata: Concentration Cells and Electrolysis of Sodium Ethoxide Solutions.—J. A. V. Butler: Studies in Heterogeneous Equilibrium. Part II. The Kinetic Interpretation of the Nernst Theory of E.M.F. Part III. A Kinetic Theory of Reversible Oxidation Potentials at Inert Electrodes.—At 5.30.—Part II. Irreversible Electrode Phenomena.—Prof. A. J. Allmand and H. J. T. Ellingham: Introductory Address.—Prof. A. Smits: Electromotive Equilibrium

and Polarisation.—N. V. S. Knibbs: The Gas Film Theory of Overvoltage.—U. R. Evans: The Influence of Obstructive Films in Anodic Processes.

INSTITUTE OF ACTUARIES, at 5.—J. M. Laing: Notes on the Industrial Assurance Act, 1913.

ROYAL SANITARY INSTITUTE, at 5.—Miss M. A. Payne: Sanitary Relief Work in Russia.

ARISTOTELIAN SOCIETY (at University of London Club), at 8.—Prof. J. W. Scott: Some Reflections on the Incidence of Mathematics: Physical Speculation in Philosophy.

ROYAL SOCIETY OF MEDICINE (Odontology Section), at 8.—A. T. Pitts: (1) (?) Dermoid Cyst of Mandible; (2) Dentigerous Cyst apparently arising from a Supernumerary Tooth.—J. G. Turner and others: Discussion on Pyorrhoea, its Prevention and Treatment.

TUESDAY, NOVEMBER 27.

ROYAL SOCIETY OF ARTS (Dominions and Colonies Section), at 4.30.—Viscount Birmham: The West Indies.

ROYAL SOCIETY OF MEDICINE, at 5.—General Meeting.

INSTITUTION OF AUTOMOBILE ENGINEERS (at Institution of Mechanical Engineers), at 6.30.—Demonstration and Discussion of Ignition Systems.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—Dr. C. E. K. Mees: Chemistry and the Motion Picture.

OPTICAL SOCIETY (at Imperial College of Science and Technology), at 8.—Dr. M. von Rohr: Contributions to the History of the Spectacle Trade from the Earliest Times to Thomas Young's Appearance (Thomas Young Oration).

ROYAL ANTHROPOLOGICAL INSTITUTE (Special Meeting) (at Royal Society), at 8.15.—Dr. E. H. Hunt: Hyderabad Cairn Burials and their Significance.

WEDNESDAY, NOVEMBER 28.

ROYAL MICROSCOPICAL SOCIETY (Industrial Applications Section), at 7.—J. E. Barnard: Lecture Demonstration.—Dr. S. H. Browning: The Application of the Microscope to Industrial Diseases.—C. A. Newton: The Microscope in the Examination of Condensed Milk.

ROYAL SOCIETY OF ARTS, at 8.—Sir Henry J. Gauvain: The Effect of Sun, Sea, and Open Air in the Treatment of Disease.

BRITISH PSYCHOLOGICAL SOCIETY (Medical Section) (at Royal Society of Medicine), at 8.30.—Dr. M. D. Eder: The Sting of Death.

THURSDAY, NOVEMBER 29.

INSTITUTION OF MINING ENGINEERS (Annual General Meeting) (at Geological Society), at 10.30 A.M.—Prof. R. W. Dron: Hydraulic Stowage at the Dalzell and Broomsides Collieries.—Prof. K. N. Moss: Some Effects of High Air-temperatures upon the Miner.—T. D. Jones: Strata Temperatures in South Wales, including Pembrokeshire.—G. Coles: The Specific Heat of Coal.—Sir William Ellis: The Position of Mechanical Engineering in Colliery Operations.

MEDICAL OFFICERS OF SCHOOLS ASSOCIATION (at 11 Chandos Street, W.1), at 5.15.—Dr. H. Crichton Miller, Dr. H. C. Cameron, and others: Discussions on The Nervous Child.

ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 5.30.—Major R. H. Mayo: The Development of High-speed Aircraft.

ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section), at 5.30.—Dr. C. W. Buckley and others: Discussion on Diuresis.

PHYSICAL SOCIETY OF LONDON AND INSTITUTION OF ELECTRICAL ENGINEERS (at Institution of Electrical Engineers), at 5.30 and 8.—S. G. Brown, Capt. P. P. Eckersley, Prof. C. L. Fortescue, Prof. J. T. MacGregor-Morris, Prof. E. Mallett, L. C. Pocock, H. L. Porter, Prof. A. O. Rankine, E. K. Sandeman, and G. A. Sutherland: Discussion on Loud Speakers for Wireless and Other Purposes.

FRIDAY, NOVEMBER 30.

ROYAL SOCIETY, at 4.—Anniversary.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—Prof. A. L. Mellanby: Clyde Marine Oil-Engines.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—A. J. Bull: The Weald, its Scenery and Structure.

JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—S. C. Saunders: Notes on Design of Paraffin Motors.

SATURDAY, DECEMBER 1.

GILBERT WHITE FELLOWSHIP (at 6 Queen Square, W.C.1), at 3.—F. R. S. Balfour: Trees and Flowers of the North-West Pacific Coast.

PUBLIC LECTURES.

SATURDAY, NOVEMBER 24.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—Miss E. Goodyear: The Romance of the Highways.

TUESDAY, NOVEMBER 27.

KING'S COLLEGE, at 5.30.—Miss Hilda D. Oakeley: The Roots of Early Greek Philosophy: Religious.

UNIVERSITY COLLEGE, at 5.30.—W. J. Perry: The Pan-Pacific Congress.

WEDNESDAY, NOVEMBER 28.

ROYAL INSTITUTE OF PUBLIC HEALTH, at 4.—Miss K. Platt: Problems in relation to Health in the Tropics.

THURSDAY, NOVEMBER 29.

LONDON SCHOOL OF ECONOMICS, at 5.30.—G. N. Clark: Holland and Belgium and Europe (League of Nations Union Lecture).

UNIVERSITY COLLEGE, at 5.30.—Sir William J. Collins: The Life and Doctrine of Sir Edwin Chadwick.

SATURDAY, DECEMBER 1.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—H. N. Milligan: The Natural History of Dragons.