

described in the limb muscles of the frog, one coarse, one fine; the latter may be the sympathetic innervation. In connexion with the motor nerve-endings in the muscles of the pectoral fin of *Squalus acanthias*, at least two types of periterminal network are described, and another terminal organ in the sarco-plasm under the end-ring, which seems not to have been described hitherto.—J. M. Petrie: Studies in plant pigments. Part ii. The red pigment induced by insect injury in *Eucalyptus stricta*. Leaves of *Eucalyptus stricta* were found to be injured by a microscopic mite, and, as a result, great fasciation had taken place, and a bright red colour produced. The colouring matter of these red fasciated leaves was isolated and examined chemically. No trace of anthocyanin could be identified, but instead, the pigment was proved to be a catechol tannin red. It was obtained in red non-crystalline flakes, and soluble in alcohol and alkalis. The red pigment is probably one of the first anhydrides, or soluble phlobaphenes, of a catechol tannin.

### Official Publications Received.

Proceedings of the Royal Society of Edinburgh, Session 1923-1924. Vol. 44, Part 2, No. 20: The Magnetic Quality of very Pure Nickel. By Ada M. Malcolm. Pp. 206-210. Vol. 44, Part 3, No. 21: The Law of Recurrences and Decay of After Images. By Winifred J. Smith. Pp. 211-217. (Edinburgh: R. Grant and Son; London: Williams and Norgate, Ltd.) 9s. each.

A Verbatim Report of a Meeting of the National Advertisers Dept. of the International Advertising Convention held at Conference Hall No. 1, Palace of Industry, British Empire Exhibition, Wembley, on July 15th, 1924. Subject: Truth about Circulation. Pp. 36. (London: Incorporated Society of British Advertisers, Ltd., 134 Fleet Street.)

Department of the Interior: United States Geological Survey. Water-Supply Paper 503: Surface Water Supply of the United States, 1919 and 1920. Part 3: Ohio River Basin. Pp. vi+257+2 plates. (Washington: Government Printing Office.) 25 cents.

University of London, University College. Calendar, Session 1924-1925. Pp. lxxviii+10+441+lxix-clxxx. (London: Taylor and Francis.)

### Diary of Societies.

#### SATURDAY, OCTOBER 18.

ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 4.—Sir Archibald E. Garrod: Harveian Oration.  
PHYSIOLOGICAL SOCIETY (at Guy's Hospital), at 4.—E. D. Adrian: The Reflex Electric Response of Antagonistic Muscles.—F. Roberts: The Short-circuited Circulation.—J. Mellanby: The Action of Digestive Enzymes on the Red Cell.—J. F. Fulton: Alterations in the Size of the Electrical Responses of a Muscle Fibre produced by small Alterations in Tension.—D. T. Barry: Some Points in the Formation of a V-wave in the Venous Pulse.—R. J. S. McDowall and B. L. Worsnop: The Effect of Histamine on the Aorta of the Living Animal.—J. Barcroft, C. A. Murray, and I. Sands: The Effect of Splenectomy on Coal-gas Poisoning.—I. Sands: Self-oxidation in the Blood of the Earthworm.—J. M. H. Campbell, G. O. Mitchell, M. S. Pembrey, and A. T. W. Powell: The Effect of Muscular Work upon Digestion.—M. S. Pembrey: The Weight of the Heart in Different Conditions.—A. N. Drury: The Spread of the Excitatory Process in Articular Muscle subjected to Pressure.—A. N. Drury and E. C. Andrus: The Influence of Hydrogen Ion Concentration on the Mammalian Auricle.—Demonstrations.  
BIOCHEMICAL SOCIETY (at Cambridge).

#### MONDAY, OCTOBER 20.

SOCIETY OF CHEMICAL INDUSTRY (Yorkshire Section) (at Queen's Hotel, Leeds), at 7.—Annual General Meeting.  
JUNIOR INSTITUTION OF ENGINEERS (North-western Section) (at 16 St. Mary's Parsonage, Manchester), at 7.15.—G. E. Blyth: Powdered Fuel.  
CHEMICAL INDUSTRY CLUB (at 2 Whitehall Court, S.W.), at 8.

#### TUESDAY, OCTOBER 21.

ROYAL HORTICULTURAL SOCIETY, at 4.—Lecture.  
ROYAL SOCIETY OF MEDICINE, at 5.—General Meeting of Fellows.  
ZOOLOGICAL SOCIETY OF LONDON, at 5.30.—Secretary: Report on the Additions to the Society's Menagerie during the months of June, July, August, and September.—Prof. H. M. Lefroy: Exhibition of lantern-slides illustrating the life-history and habits of the Death-Watch Beetle.—R. I. Pocock: The External Characters of the South American Edentates.—Rev. Dr. F. J. Wyeth: The Development and Neuromy of the Fore-brain in Sphenodon.—H. C. Abraham: Some Mygalomorph Spiders from the Malay Peninsula.—Joan B. Procter: Unrecorded Characters seen in Living Snakes and Description of a new Tree-Frog.

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INSTITUTE OF MARINE ENGINEERS, at 6.30.—Sir James Kennal: Present Tendencies in Steam Generation.  
INSTITUTION OF ELECTRICAL ENGINEERS (East Midland Sub-Centre) (at the College, Loughborough), at 6.45.—F. W. Nicholls: Realisation of Heat Units in Steam and Electric Power Plant.  
ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—H. A. Tipping: Old English Country Homes.  
INSTITUTION OF AUTOMOBILE ENGINEERS (Coventry Centre) (at Coventry) at 7.15.—Dr. W. R. Ormandy: Research (Presidential Address).  
INSTITUTE OF CHEMISTRY AND SOCIETY OF CHEMICAL INDUSTRY (Edinburgh and East of Scotland Section) (at 36 York Place, Edinburgh).—W. F. U. Woolcock: Opening Address.

#### WEDNESDAY, OCTOBER 22.

FARADAY SOCIETY, GEOLOGICAL SOCIETY, AND MINERALOGICAL SOCIETY (at Geological Society), at 3.—Dr. J. S. Flett: Introductory Address.—Dr. G. W. Tyrrell: Review of Recent Work on the Origin and Differentiation of Igneous Rocks.—Prof. W. E. S. Turner: The Physical Properties of Silicate Glasses.—A. F. Hallimond: The Formation of Eutectic and Similar Structures in Silica Melts.—Prof. J. W. Gregory: Magmatic Ore Deposits.—Dr. J. W. Evans: Proposed Researches in the Chemistry and Physics of Igneous Magmas Rocks.—Prof. C. H. Desch: The Theory of Crystallisation in Rock Magmas.—Dr. A. Scott: Equilibrium of Igneous Rocks and the Influence of Certain Factors on it.—Prof. P. Niggli: Homogeneous Equilibria in Magmatic Melts and their Bearing on the Processes of Igneous Rock Formation.—Dr. W. A. Richardson: Some Ultimate Problems in Petrogenesis.  
INSTITUTION OF ENGINEERING INSPECTION (at Royal Society of Arts), at 5.—A. Hamilton: Crankless Engines.  
INSTITUTION OF AUTOMOBILE ENGINEERS (North of England Centre) (at 244 Deansgate, Manchester), at 6.30.—Dr. W. R. Ormandy: Research (Presidential Address).  
INSTITUTION OF ELECTRICAL ENGINEERS (South Midland Centre) (at Grand Hotel, Birmingham), at 7.—W. Lawson: Chairman's Address.  
ROYAL MICROSCOPICAL SOCIETY (Industrial Applications Section), at 7.30.—J. E. Barnard: The Elementary Principles of Microscopical Illumination—(1) Transmitted Light.—Dr. R. H. Greaves: Super-saturated Solid Solutions.—H. Wrigton: New Photo-micrographical Apparatus for all purposes.

#### THURSDAY, OCTOBER 23.

SOCIETY OF CHEMICAL INDUSTRY (Chemical Engineering Group) (at Engineers' Club, Coventry Street, W.C.), at 5.—H. Griffiths: Crystallisation.—T. V. Barker: The Development and Formation of Crystals.  
INSTITUTION OF ELECTRICAL ENGINEERS, at 6.—W. B. Woodhouse: Inaugural Address.  
INSTITUTION OF AUTOMOBILE ENGINEERS (Luton Centre) (at Luton), at 7.—G. L. Ensor: Positive Valve Control.  
C.B.C. SOCIETY FOR CONSTRUCTIVE BIRTH CONTROL AND RACIAL PROGRESS (at Essex Hall, Essex Street, W.C.), at 8.—Dr. Marie Stopes: The Present Position of the Birth Control Movement (Presidential Address).  
INSTITUTION OF WELDING ENGINEERS (at Engineers' Club, Coventry Street, W.), at 8.—E. A. Atkins: Steel Wire: its Manufacture, Properties, and Uses for Welding and other Purposes.  
ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE (at 11 Chandos Street, W.), at 8.15.—Sir Malcolm Watson: Observations on Malaria Control with special reference to the Assam Tea Gardens.

#### FRIDAY, OCTOBER 24.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science and Technology), at 5.—D. Gunnalya and G. Subrahmaniam, with Demonstration by D. J. Blakley: Underblown Pipes.—W. Mandell and J. West: The Temperature Gradient in Gases at Various Pressures.—J. F. S. Ross: Vectorial Dimensions.  
ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Sir Arthur Keith: Anatomy and Malformations of the Heart (2). Specimens illustrating the common kinds of Congenital Malformation.  
ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—J. E. Saunders: "Close-ups" at the Zoo.  
JUNIOR INSTITUTION OF ENGINEERS, at 7.30.—F. F. Evans: Powdered Fuel.  
NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS (Middlesbrough Branch) (at Cleveland Institution), at 7.30.—J. McGovern: Address.

#### PUBLIC LECTURES.

#### SATURDAY, OCTOBER 18.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—H. Dewey: Cornish Scenery and its Causes.

#### MONDAY, OCTOBER 20.

KING'S COLLEGE, at 5.30.—Prof. E. W. Scripture: Prose and Verse analysed by the Newer Methods.

#### TUESDAY, OCTOBER 21.

BEDFORD COLLEGE FOR WOMEN, at 5.15.—Prof. H. Piéron: La Douleur, au point de vue des fonctions affectives et perceptives (in French). (Succeeding Lectures on October 22, 24.)  
GRESHAM COLLEGE, at 6.—W. H. Wagstaff: Geometry (Gresham Lectures). (Succeeding Lectures on October 22, 23, 24.)

#### SATURDAY, OCTOBER 25.

HORNIMAN MUSEUM (Forest Hill), at 3.30.—F. Balfour-Browne: Social Life amongst Insects—(1) Ants, Bees, and Wasps.