

presence of two silver isotopes. For aluminium the decay period is  $9.5 \pm 0.5$  min. and for copper about 7 min. The observed radiations in each case are of electronic mass and for silver and aluminium are electrons. Estimates have been made of the activity induced by a given number of neutrons and of the energy of the radiation emitted. CHARLES HAIG: The spectral sensibility of *Avena*. The bases and tips of young oat shoots respectively were exposed to monochromatic light. The tip responses show a maximum at  $\lambda$  4800; base responses show no maximum in the visible spectrum but possibly one in the ultra-violet. This confirms the earlier suggestion of separate photo-receptor systems. FOLKE SKOOG and KENNETH V. THIMANN: Further experiments on the inhibition of the development of lateral buds by growth hormone. The view that this inhibition is due to high concentration of growth hormone preventing its production by a given tissue is re-stated. Inhibition is complete without increase in stem length or thickness. Further, crystalline preparations of growth substance are as effective for decapitated pea plants as natural preparations of the same concentration of growth substance, showing that impurities are not involved. ALFRED J. MARIA: The potential of a positive mass and the weight function of Wiener. NATHAN KAPLAN:  $V_3$  in  $R_6$ .

### Forthcoming Events

[Meetings marked with an asterisk are open to the public.]

#### Sunday, November 25

BRITISH MUSEUM (NATURAL HISTORY), at 3 and 4.30.—M. A. C. Hinton: "Some Fossil and Living Mammals".\*

#### Monday, November 26

BRITISH MUSEUM (NATURAL HISTORY), at 5.30—(at Imperial College of Science, Exhibition Road, South Kensington, London, S.W.7).—Dr. R. M. Craig: "The Geology and Scenery of the Hebrides" (Swiney Lectures on Geology. Succeeding lectures on November 28, 30, December 3, 5, 7, 10, 12, 14, 17, 19 and 21).

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Ivan T. Sanderson: "The Mamfe Basin, Cameroons".

#### Wednesday, November 28

BRITISH SCIENCE GUILD, at 4.30—(at the Goldsmith's Hall, Foster Lane, London, E.C.2).—Prof. J. B. S. Haldane: "Human Biology and its Applications" (Norman Lockyer Lecture).

#### Friday, November 30

INSTITUTION OF PROFESSIONAL CIVIL SERVANTS, at 5.30—(at the Royal Society of Arts, John Street, Adelphi, W.C.2).—A. Keiller: "Excavations (1934) on the Course of the Megalithic Avenue leading from Overton Hill to Avebury, Wilts., commonly known as the West Kennet Avenue".\*

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—L. St. L. Pendred: "A Survey of Ships and Engines" (Thomas Lowe Gray Lecture).

ARMOURERS AND BRASIERS' COMPANY, at 8—(at the Royal School of Mines, South Kensington, S.W.7).—Prof. F. C. Thompson: "The Deformation of Metals" (succeeding lectures on December 7 and 14).\*

ROYAL INSTITUTION, at 9.—Sir Josiah Stamp: "The Roosevelt Plan".

### Official Publications Received

#### GREAT BRITAIN AND IRELAND

Technical Publications of the International Tin Research and Development Council. Series A, No. 2: Tin-Iron Alloy in Tinplate, with Notes on some Imperfections. By W. E. Hoare. Pp. 253-264. (London: International Tin Research and Development Council.)

Medical Research Council. Special Report Series, No. 197: Medical Uses of Radium—Summary of Reports from Research Centres for 1933. Pp. 40. (London: H.M. Stationery Office.) 9d. net.

Economic Advisory Council: Committee on Locust Control. The Locust Outbreak in Africa and Western Asia in 1933. Survey prepared by B. P. Uvarov. Pp. 66. (London: H.M. Stationery Office.) 2s. net.

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1454 (Ae. Tech. 606): Interferometer for Recording Turbulent Flow. By L. F. G. Simmons and C. Salter. Pp. 3+4 plates. 9d. net. No. 1597 (T. 3451c, part): Pressure Exploration over an Aerofoil that completely spans a Wind Tunnel. By W. L. Cowley and G. A. McMillan. Pp. 13+3 plates. 9d. net. (London: H.M. Stationery Office.)

The Zoological Society of Scotland. Popular Official Guide to the Scottish Zoological Park. By T. H. Gillespie. Tenth edition. Pp. 116. (Edinburgh.) 1s.

The Coventry Libraries. Report of the Committee on the Year's Work, together with the Fourth Annual Report of the Museum for the Year ended 31st March 1934. Pp. ii+30. (Coventry: Gulson (Central) Library.)

The Imperial Forestry Institute: University of Oxford. Tenth Annual Report, 1933-1934, and Prospectus. Pp. 36. (Oxford.)

County Council of the West Riding of Yorkshire: Education Committee. Report on the Examination for County Minor Scholarships, 1934. Pp. 38. (Wakefield: County Hall.)

Board of Education: Science Museum. Rubber Exhibition (November 1934-April 1935): a Brief Account of the History of Rubber from its Source to the Finished Product, and a Descriptive Catalogue of the Exhibits. Compiled by the Rubber Growers' Association. Pp. 44+4 plates. (London: H.M. Stationery Office.) 6d. net.

Committee of the Privy Council for the Organisation and Development of Agricultural Research. Report of the Agricultural Research Council for the period July 1931-30th September 1933. (Cmd. 4718.) Pp. v+205. (London: H.M. Stationery Office.) 3s. net.

The Association of Special Libraries and Information Bureaux. Report of Proceedings of the Eleventh Conference held at Somerville College, Oxford, September 21st to 24th, 1934. Pp. 109. (London: Association of Special Libraries and Information Bureaux.) 5s.

East African Agricultural Research Station, Amani. Sixth Annual Report, 1933-34. Pp. 48. (London: H.M. Stationery Office.) 1s. net.

Hastings Natural History Society. Report and Balance Sheet for the Session 1933-34, Council, Rules and New Members. Pp. 8. (St. Leonards: Hon. Secretary, 23 Charles Road.)

#### OTHER COUNTRIES

U.S. Department of Agriculture. Miscellaneous Publication No. 192: A Review of the Patents and Literature on the Manufacture of Potassium Nitrate with Notes on its Occurrence and Uses. By Colin W. Whittaker and Frank O. Lundstrom. Pp. 54. 5 cents. Circular No. 320: Report on a Preliminary Field Survey of the so-called "Alkali Disease" of Livestock. By Kurt W. Franke, T. D. Rice, A. G. Johnson and H. W. Schoening. Pp. 10. 5 cents. (Washington, D.C.: Government Printing Office.)

Ministero dei Lavori pubblici, Consiglio Superiore: Servizio Idrografico. Le precipitazioni atmosferiche in Italia, nel decennio 1921-1930. Per Prof. Filippo Eredia. (Pubblicazione N. 16.) Pp. xiv+320+31 plates. (Roma: Istituto Poligrafico della Stato.) 50 lire.

International Institute of Agriculture. Coffee in 1931 and 1932: Economic and Technical Aspects. Pp. 231. (Rome: International Institute of Agriculture.) 20 lire.

Ministry of Agriculture, Egypt: Technical and Scientific Service. Bulletin No. 131: Citrus Gummosis in Egypt. By Dr. Ahmed Sirag-el-Din. Pp. ii+44+14 plates. 5 P.T. Bulletin No. 136: Latent Haemoprotozoal Infections Intercurrent and Recidivous Diseases; Observations and Researches on the Comparative Pathology. By Prof. Dr. M. Carpano. Translated from the Italian by E. Talarewitch. Pp. 17+9 plates. 3 P.T. Bulletin No. 137: Sur les piropalamoses des carnassiers et sur un nouveau piropalosome des Vélins (*Babesiella felis* chez le Puma: *Felis concolor*). Par Prof. Dr. M. Carpano. Traduit de l'italien par Elliot J. Moreno. Pp. 20+6 plates. 3 P.T. Bulletin No. 139: Contributions to a Knowledge of the White Flies (Aleyrodidae) of Egypt, 2. By Prof. Dr. H. Priesner and Mahmoud Hosny. Pp. 21. 3 P.T. Supplement to Bulletin No. 140: A Supplement containing Illustrations relating to Bulletin on Fowl-Plague in Egypt, written by Dr. Ahmad Mohammed Rachad. 8 plates. 15 mills. Bulletin No. 141: Water-Table Effects. 1: The Gumming and Death of Plum Trees. By Dr. A. Fikry. Pp. ii+35+12 plates. 5 P.T. Bulletin No. 142: Control of Barley Diseases. 1: Closed Smut. By G. Howard Jones. Pp. ii+19+8 plates. 3 P.T. Bulletin No. 147: Pasteurella in Animals and their Inter-Classification. By I. Abu Bakr Khalifa. Pp. 36. 5 P.T. (Cairo: Government Press.)

#### CATALOGUES

The Gaede Series of High Vacuum Pumps. (Special List No. 21.) Pp. 26. (London: W. Edwards and Co.)

A Catalogue of Books and Periodicals on Natural History, including Zoology, Geology and Palaeontology. (No. 495.) Pp. 160. (London: Bernard Quaritch, Ltd.)

Anthropology and Folklore, Archaeology and Ethnography: a Catalogue of New and Secondhand Books. (Catalogue No. 574.) Pp. 42. Selected List of Publishers' Remainders. (Catalogue No. 579.) Pp. 24. (London: Francis Edwards, Ltd.)

Catalogue of Books on Chemistry (Organic, Inorganic, Physical). Pp. 20. Catalogue of Books on Applied Chemistry. Pp. 26. (London: H. K. Lewis and Co., Ltd.)