

POLYNOV and A. I. TROICKIJ : Absorption of anions in the red soils of Adzharia. Z. S. KATZNELSON : Investigations on the development of muscles in Urodela. G. V. LOPASHOV : Variation with age of the potential ability to produce organs in the isolated ectoderm of a gastrula of *Triton*. A. R. WERNER : (1) Biological activators of *Azotobacter*. Soil-grown green algae possess high value as biological activators of nitrogen fixation in the soil. (2) The role of bios in the biology of the fungi of the genus *Fusarium*. The presence of bios in the medium is necessary for the sporulation of *Fusarium*. A. A. OBRAZCOV : Micro-organisms of the rhizosphere in the Batum red soils. G. LEVITSKY and M. SIZOVA : Further studies on regularities in chromosome transformations induced by X-rays in *Crepis capillaris*. D. A. POVOLOCHKO : An autotetraploid of *Nicotiana sylvestris* obtained by regeneration effected by growth hormones. A. I. ZUITIN : Chromosomes of the yak (*Pcephogus grunniens*, L.). I. B. PANSHIN : New evidence for the position effect hypothesis. V. V. SACHAROV : (1) 'Mottled' in *Drosophila* as a case of the position effect. (2) A cytological study of the lethals of the sex chromosomes in *D. melanogaster*. I. I. NOVIKOV : Chromosomes in the spermatogenesis of interspecific hybrids of the European mouflon and the domesticated sheep (merino). N. V. DUBOVSKIJ : The question of the comparative mutability of stocks of *Drosophila melanogaster* of different origins. M. I. SALTYKOVSKIJ and E. S. SAPRYGINA : Frost resistance of winter cereals at different stages of development. V. GROMOVA : The finds of wild sheep and wild goats in the quaternary deposits in the Crimea. S. S. SMIRNOV : Contribution to the morphology of rudimentary legs in Copepoda. A. P. ANDRIASHEV : New data on deep-water fishes of the Bering Sea. D. RAUSER-CHERNOUSOVA : Notes on the genus *Wedekindellina*, Dunbar et Herbert, and its stratigraphical significance.

## VIENNA

Academy of Sciences, January 9. K. FEDERHOFER : Characteristic vibrations of an arc of a circle vibrating perpendicular to its plane. F. REINITZHUER : The displacement planes of spatial structures. OTTO WETTSTEIN : Results of a zoological expedition to the Dodecanese. OTTO REDLICH and PETER ROSENFELD : The calculation of activation coefficients. OTTO REDLICH and FRITZ PORDES : Raman spectrum of deuteriochloroform and deuteromethanol ; a vibration model of the type  $XY_2Z$ . OTTO REDLICH and WALTER STRICKS : The Raman spectrum and vibrations of monodeuterobenzene and *p*-dideuterobenzene. G. JÄGER : Characteristic notes of closed and open spaces of streets and squares. WALTER WAGNER : Chromium oxide as a catalyst. ARTUR KUTZELNIGG : General survey of researches on oxidation catalysis. BERTA KULIK : The limits of detectability of the heavier rare gases in helium. The limiting concentrations of the heavier rare gases which may still be detected in helium are determined by a spectrographic method.

January 16. RUDOLF INZINGER : The differential geometry of Pfaff manifolds. GEORG KOLLER and HERMANN CZERNY : On the bitter principle of orange pips. Two bitter compounds are found to be present : limonin with a melting point at 280°, and isolimonin with a melting point at 264°. The method of separation of the two compounds is described. F. SCHEMINZKY : Electrical narcosis.

## Forthcoming Events

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

## Monday, March 23

VICTORIA INSTITUTE, at 4.30.—Dr. M. Gaster : "The Present Position of the Jews in Relation to World Events".

## Wednesday, March 25

ROYAL SOCIETY OF ARTS, at 8.—Sir Roy Robinson : "Forestry in the British Empire."

## Friday, March 27

INSTITUTION OF PROFESSIONAL CIVIL SERVANTS, at 5.30.—(at the Royal Society of Arts, John Street, Adelphi, W.C.2).—Dr. H. J. Gough, F.R.S. : "Robert Hooke".\*

ROYAL INSTITUTION, at 9.—Prof. Julian Huxley : "The Race Problem".

## Official Publications Received

## Great Britain and Ireland

Proceedings of the Royal Irish Academy. Vol. 43, Section A, No. 1 : The Settling of a Suspension flowing along a Tube. By W. B. Morton. Pp. 4. Vol. 43, Section A, No. 2 : The Diffusion Coefficients and Velocities of Fall in Air of Atmospheric Condensation Nuclei. By J. J. Nolan and V. H. Guerrini. Pp. 5-24. 1s. Vol. 43, Section A, No. 3 : Integrals of MacCullagh's Equations. By Dr. A. W. Conway. Pp. 25-34. 1s. (Dublin : Hodges, Figgis and Co. ; London : Williams and Norgate, Ltd.) [262]  
The One Hundred and Second Annual Report of the Royal Cornwall Polytechnic Society. New Series, Vol. 8, Part 2, 1935. Pp. 104. (Falmouth : Secretary, 1 Restormel Terrace.) 5s. [272]  
Race and Culture. Pp. 24. (London : Le Play House Press ; Royal Anthropological Institute.) 1s. [272]  
The National Institute of Agricultural Botany. Sixteenth Report and Accounts, 1934-35. Pp. 28. (Cambridge : National Institute of Agricultural Botany.) [23]  
Scientific Horticulture (formerly the H.E.A. Year Book) : the Journal of the Horticultural Education Association. Vol. 4, 1936. Pp. viii+218+ix-xlii. (Wye, Kent : South-Eastern Agricultural College.) 3s. 6d. net. [235]  
Liverpool Observatory and Tidal Institute. Annual Report, 1935. Pp. 16. (Liverpool : Liverpool Observatory.) [43]

## Other Countries

Comité international des Poids et Mesures. Procès-verbaux des séances. Deuxième série, Tome 17 : Session de 1935. Pp. viii+372. (Paris : Gauthier-Villars.) [282]  
Legislative Assembly : New South Wales. Report (together with Appendices) of the Minister of Public Instruction for the Year 1934. Pp. 45. (Sydney : Government Printer.) 3s. [23]  
Department of Agriculture : Straits Settlements and Federated Malay States. General Series, No. 23 : The Coconut Industry of the Philippine Islands ; Report on a Visit to the Philippine Islands for the purpose of studying the Conditions of the Coconut Industry. By F. C. Cooke. Pp. v+101+12 plates. (Kuala Lumpur : Department of Agriculture.) 50 cents. [23]  
Allahabad University Studies. Vol. 11 (Arts and Sciences). Pp. v+486. (Allahabad : Senate House.) 7.8 rupees. [23]  
Union of South Africa : Department of Mines. Geological Series, Bulletin No. 6 : Corundum in the Union of South Africa. By Dr. W. Kupferburger. Pp. 81. (Pretoria : Government Printer.) 6d. [33]  
U.S. Department of Commerce : National Bureau of Standards. Research Paper RP 856 : Unicontrol Radio Receiver for Ultra High Frequencies using Concentric Lines as Interstage Couplers. By Francis W. Dunmore. Pp. 609-618+3 plates. (Washington, D.C. : Government Printing Office.) 5 cents. [43]  
U.S. Department of Agriculture. Circular No. 370 : Food Habits of Common Hawks. By W. L. McAtee. Pp. 36. (Washington, D.C. : Government Printing Office.) 5 cents. [43]  
Field Museum of Natural History. Anthropology Leaflet 32 : Primitive Hunters of Australia. By Wilfrid D. Hambly. Pp. 59+12 plates. (Chicago : Field Museum of Natural History.) 30 cents. [43]  
Annales de l'Institut technique du bâtiment et des travaux publics. Année 1, No. 1, Janvier-Février. Pp. viii+120. (Paris : Institut technique du bâtiment et des Travaux publics.) [43]  
Ministry of Finance, Egypt : Survey of Egypt. Geology of Egypt. By Dr. W. F. Hume. Vol. 2 : The Fundamental Pre-Cambrian Rocks of Egypt and the Sudan ; their Distribution, Age and Character. Part 2 : The Later Plutonic and Minor Intrusive Rocks, with a Special Chapter dealing with Dynamical Geology (Catact Structure and Contact Metamorphism) and the Age of the Pre-Cambrian Rocks in Egypt. Pp. xxxv+301-688+108+plates 97-158. (Cairo : Government Press.) 300 P.T. [43]  
Ministry of Agriculture, Egypt : Technical and Scientific Service. Bulletin No. 154 : Water-Table Effects. 2 : Relative Incidence of Diseases on Stone-fruit Trees. By Dr. A. Fikry. Pp. ii+52+33 plates. (Cairo : Government Press.) 8 P.T. [43]