

H. BREMEKAMP: Carson's integral equation.  
HWA-CHUNG LEE: Differential geometry of contact transformations.

J. HAANTJES: Conformal representations of an  $n$ -dimensional Euclidean space with a non-definite fundamental form on itself.

J. M. VAN DER ZANDEN: Polymerides of methyl-chavicol.

A. W. H. VAN HERK: Chemical processes in the spadix of *Sauromatum* (3).

H. W. V. WILLEMS: Relation between the optical properties and the chemical composition of glaucophane.

G. C. HIRSCH: Outlines of a theory of the Golgi bodies (2). The Golgi bodies in time.

G. STIASNY: *Parerythropodium maris-tenebrosi* n.sp., a new alcyonarian from the coast of north-west Africa.

### Vienna

Academy of Sciences, October 21.

H. BENNDORF and MELITA MITLACHER: Stationary air currents in closed vessels. It is found that the needle of a short-circuited electrometer moves with a period of one day. On certain days, a short-period motion is superposed on the diurnal motion. The short-period motion is due to fluctuations in the barometric pressure causing air to stream in and out of the case, while the diurnal motion is due to small temperature changes in the case of the electrometer setting up slowly varying, quasi-stationary air currents. The diurnal variation of these air currents may give rise to errors in large ionization chambers.

G. STETTER and F. PRANKL: Resonance effect in the disintegration of aluminium by  $\alpha$ -rays.

K. JEŽEK: Stress in a lap weld with chamfered seam.

F. WESSELY, A. MÜNSTER and S. WANG: Catalytic hydrogenation of saturated lactones.

October 28.

W. J. MÜLLER and R. GRUBER: Comparative study of the reactivity of lignites and their cokes. The results given by different methods of measurement are compared.

E. BARONI and A. FINK: Concentration of  $D_2O$  in natural ice (4).

K. BRAUNER: Curvature property of manifolds of class 1.

F. WERNER: Fauna of the Peloponnesus, the islands of Cythera and Euboea and the islets of the Saronic Gulf.

K. ZALESKY: Mammals of Lower Austria, with particular reference to the Gölssental.

November 4.

R. INZINGER: Curve invariants of cyclic series.  
S. MEYER: Age of the sun and the decay constant of actino-uranium.

E. CLAR: Stratigraphy of the Schwarzeck breccia in the Radstädter Tauern.

H. STROUHAL: Greek millipeds collected by Dr. F. Werner in 1937.

J. SCHNEIDER: Discovery of a female *Boii* skeleton at Vill near Innsbruck.

A. ERDÉLYI: Non-uniform strings with a parabolic distribution of density.

L. LÄMMERMAYR: Amount and nature of the growth of wood at and above the forest boundary.

## Appointments Vacant

APPLICATIONS are invited for the following appointments, on or before the dates mentioned:

JUNIOR ASSISTANT CHEMIST (male) at the Royal Ordnance Factory, Irvine—The Under-Secretary of State (C.5), The War Office, London, S.W.1 (January 3) (Quote Appts./60).

TECHNICAL OFFICER (radio development) at the Royal Aircraft Establishment, South Farnborough, Hants—The Chief Superintendent (January 8) (Ref. No. 526).

ONE BACTERIOLOGIST AND ONE NATURALIST in the Laboratories of the Freshwater Biological Association of the British Empire at Wray Castle, Ambleside, Westmorland—The Director (January 31).

LIVESEY PROFESSOR OF COAL GAS AND FUEL INDUSTRIES in the University of Leeds—The Registrar (February 5).

ASSISTANT LECTURER IN HORTICULTURE in Buckinghamshire—The Agricultural Organizer, County Offices, Aylesbury.

## Official Publications Received

### Great Britain and Ireland

Forestry Commission. Report of the National Forest Park Committee (Snowdonia), 1937. Pp. 5+1 plate. (London: H.M. Stationery Office.) 6d. net. [1611]

Stonyhurst College Observatory. Results of Geophysical and Solar Observations, 1936; with Report and Notes of the Director. Pp. xx+40. (Blackburn: Stonyhurst College Observatory.) [1811]

Technical Publications of the International Tin Research and Development Council. Series A, No. 66: Measurement of the Thickness of Tin Coatings on Steel by a Magnetic and Electromagnetic Method. By Dr. B. Chalmers, W. E. Hoare and W. H. Tait. Pp. 9. Free. Series B, No. 6: The Wetting of Metals by Metals with particular reference to Tinning and Soldering. By E. J. Daniels and D. J. Macnaughtan. Pp. 11. Free. (London: International Tin Research and Development Council.) [1811]

Report by the Food Council to the President of the Board of Trade on Costs and Profits of Retail Milk Distribution in Great Britain. Pp. 36. (London: H.M. Stationery Office.) 9d. net. [1911]

Royal Commission on Awards to Inventors. Final Report. (Cmd. 5594.) Pp. 8. (London: H.M. Stationery Office.) 2d. net. [1911]

University of London: University College. Calendar, Session 1937-1938. Pp. lxxx+14+586+24. (London: Taylor and Francis, Ltd.) [1911]

### Other Countries

Proceedings of the Academy of Natural Sciences of Philadelphia, Vol. 89. Studies on the Family Acrididae (Orthoptera) of Venezuela. By H. Radclyffe Roberts. Pp. 343-368. Zoological Results of the George Vanderbilt African Expedition of 1934. Part 8: Lepidoptera; Rhopalocera. By Ezra T. Cresson, Jr. Pp. 369-384. Third Preliminary Report on the Results of the Second Dolan Expedition to West China and Tibet; Four New Birds from Tibet. By Ernest Schäfer. Pp. 385-386. (Philadelphia: Academy of Natural Sciences.) [1611]

Union of South Africa: Department of Mines: Geological Survey. Memoir No. 33: The Geology of the Country around Bethlehem and Kestell; with Special Reference to Oil Indications. By O. R. Van Eeden. Pp. 60. (Pretoria: Government Printer.) 7s. 6d., including Map. [1611]

The University and the National Life: Three Addresses to Victorian Political Organizations. By Dr. R. E. Priestley. Pp. 48+9 plates. (Melbourne: Melbourne University Press.) [1811]

Annals of the Royal Botanic Garden, Calcutta. Vol. 14, Part 1: An Account of the Genus *Dioscorea* in the East. Part 1: The Species which Twine to the Left. By D. Prain and I. H. Burkill. Pp. 210+vi+85 plates. (Calcutta: Government Printing Office.) 75 rupees; £5 13s. 0d. [1911]

Smithsonian Miscellaneous Collections. Vol. 96, No. 6: Growth of *Avena* Coleoptile and first Internode in Different Wave-length Bands of the Visible Spectrum. By Earl S. Johnston. (Publication 3444.) Pp. 19. (Washington, D.C.: Government Printing Office.) [1911]

### Catalogues, etc.

Klassische Philologie, Teil 1. (Antiquariatskatalog Nr. 716.) Pp. 240. Geschenkwerke aus allen Gebieten der Unterhaltung und des Wissens. (Bücher-Anzeiger No. 170.) Pp. 150. Mittelalter: Geschichte, Kulturgeschichte, Rechts- und Wirtschaftsgeschichte, Kirchengeschichte. (Antiquariatskatalog Nr. 718.) Pp. 272. (Leipzig: Gustav Fock, G.m.b.H.)

Catalogus Dissertationum, Philologicarum Classicarum. Editio III. Erläuterungsschriften zu den griechischen und lateinischen Schriftstellern, enthaltend die Literatur aus den Jahren 1911-1936. Pp. 176. (Leipzig: Gustav Fock, G.m.b.H.) 1.50 gold marks.

Dulau's Autumn 1937 Botanical Catalogue, with a few Miscellaneous Natural History Books in addition. (No. 266.) Pp. 45. (London: Dulau and Co., Ltd.)

A Short Catalogue of Books relating to Africa. (Catalogue N.S. No. 25.) Pp. 28. Books of Early Science, Medicine, etc. (Catalogue N.S. No. 26.) Pp. 42. Dawson's Periodica (English and Foreign). (Catalogue N.S. No. 27.) Pp. 56. (London: Wm. Dawson and Sons, Ltd.)

English Books before 1700. (Catalogue No. 619.) Pp. 72. (London: Francis Edwards, Ltd.)