

of *Hæmanthus*. P. BURNIAT: Birational transformations of space having two isolated associated fundamental points. (3) Transformations  $T_3$  and  $T_4$ . J. F. COX: Representation of the whole surface of the earth in an equilateral triangle. Formulæ and examples of conformal and equivalent projections in an equilateral triangle. J. VAN MEIGHEM: Equations of perturbation of perfect piezotropic fluids. This paper establishes the equations in the case when the field of the Lagrangian variables of the perturbed movement does not coincide with that of the unperturbed movement. G. BALASSE and M. LLE. GALET: Spectra of iodine with feeble excitation. A correction. J. PASTEELS: Morphogenetic movements of the gastrulation in turtles. J. TERBY: Attempt to explain the mitosis of *Spirogyra* by that of *Plasmodiophora*.

## GENEVA

Society of Physics and Natural History, February 7. B. SUSZ and E. BRINER: The Raman spectra of mixtures of nitric acid and nitrogen pentoxide. The frequencies  $1048^{-1}$  and  $1396^{-1}$ , the intensity of which increases with the concentration of the pentoxide, appear to be connected with the presence of this substance. W. H. SCHOPFER: The solubility of growth factors.

February 21. P. ROSSIER: (1) A colorimetric equivalent. The application to a group of all spectral types of stars of a linear function of the abscissæ of the extremities of spectrograms of type *A* stars leads to an expression sensibly proportional to the colour index. (2) The natural classification of stars. If a number proportional to the percentage of stars of a spectral type less advanced than a certain limit is chosen as a variable independent of classification, it appears that certain inflections of some curves of colorimetric equivalents disappear.

## VIENNA

Academy of Sciences, January 24. ERICH TSCHERMAK-SEYSENEGG: Hybridogenic pseudo-parthenogenesis. ALEXANDER TORNQVIST: The high metamorphic gravel beds of Tessenberg-Panzendorf in the eastern Tyrol. RICHARD WEISS and JAKOB KOLTES: Derivatives of 1:4-di- $\alpha$ -naphthyl-naphthalene. RUDOLF WAGNER: Proliferation polymorphism of hexamerous blossoms. A methodological investigation. RUDOLF ZIMARA: Mammals of West Africa.

## Forthcoming Events

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

Sunday, April 21

BRITISH MUSEUM (NATURAL HISTORY), at 3 and 4.30.—M. A. Phillips: "Gem Stones".\*

Friday, April 26

ROYAL ASTRONOMICAL SOCIETY, at 4.30.—Discussion on "Gravity Measurements" to be opened by Dr. E. C. Bullard.

SOCIETY OF CHEMICAL INDUSTRY (CHEMICAL ENGINEERING GROUP), at 6.45.—Annual General Meeting to be held at the Waldorf Hotel, Aldwych, London, W.C.2.

Lord Amulree: "A Historical Survey of Wage Adjustments".

GEOGRAPHICAL ASSOCIATION, April 26-29. Spring Conference to be held in Nottingham.

## Official Publications Received

## GREAT BRITAIN AND IRELAND

Post Office Publicity. By Sir Stephen Tallents. (The Post Office Green Papers, No. 8.) Pp. 24+12 plates. (London: H.M. Stationery Office.) 6d. net.

Annual Reports on the Progress of Chemistry for 1934. Vol. 31. Pp. 442. (London: Chemical Society.) 10s. 6d.

International Conference on Physics, London 1934. A Joint Conference organized by the International Union of Pure and Applied Physics and the Physical Society. Papers and Discussions. In 2 vols. Vol. 1: Nuclear Physics. Pp. viii+257. 10s. Vol. 2: The Solid State of Matter. Pp. viii+183. 10s. Reports on Symbols, Units and Nomenclature approved by the General Assembly of the Union at its Meeting in London on 5th October 1934. Pp. iv+40. 2s. 9d. (London: Physical Society.)

Association of British Chemical Manufacturers. Directory of British Fine Chemicals produced by Members of the Association. Pp. 62. (London: Association of British Chemical Manufacturers.)

Annual Report of the Council of the Yorkshire Philosophical Society for the Year 1934, presented to the Annual Meeting, February 11th, 1935. Pp. 51+6. (York: Yorkshire Philosophical Society.)

Department of Scientific and Industrial Research. The Investigation of Atmospheric Pollution: Report on Observations in the Year ended 31st March 1934. (Twentieth Report.) Pp. vii+108. (London: H.M. Stationery Office.) 5s. net.

Census of England and Wales, 1931. General Tables comprising Population, Institutions, Ages and Marital Conditions, Birthplace and Nationality, Welsh Language. Pp. ix+246. (London: H.M. Stationery Office.) 11s. net.

## OTHER COUNTRIES

U.S. Department of the Interior: Geological Survey. Professional Paper 185-C: The Recognizable Species of the Green River Flora. By Roland W. Brown. (Shorter Contributions to General Geology, 1934-35.) Pp. ii+45-77+plates 8-15. 10 cents. Professional Paper 185-E: Miocene Plants from Idaho. By Edward Wilber Berry. (Shorter Contributions to General Geology, 1934-35.) Pp. ii+97-125+plates 19-24. 10 cents. (Washington, D.C.: Government Printing Office.)

The Imperial Council of Agricultural Research. Miscellaneous Bulletin No. 4: Host Plant Index of Indo-Ceylonese Coccidæ. By S. Ramachandran and Dr. T. V. Ramakrishna Ayyar. Pp. iii+113+x. (Delhi: Manager of Publications.) 1.10 rupees; 2s. 9d.

The Woody Plants of Natal and Zululand. By Dr. J. S. Henkel. Pp. xii+252. (Pietmaritzburg: Natal University College.)

Argeologiese Navorsing van die Nasionale Museum, Bloemfontein. Deel 2, Stuk 1: Die Oorblyfsels van Buispoort en Braklaagte, Noordwes van Zeerust. Deur Dr. Ir. E. C. N. Van Hoepen en Dr. A. C. Hoffman. Pp. ii+25+12 plates. (Bloemfontein: Nasionale Museum.)

U.S. Department of Agriculture. Miscellaneous Publication No. 207: Raising Reindeer in Alaska. By Lawrence J. Palmer. Pp. ii+41. (Washington, D.C.: Government Printing Office.) 5 cents.

U.S. Department of the Interior: Office of Education. Bibliography No. 29: Good References on The Curriculum and Social Change. Compiled by Katherine M. Cook and Florence E. Reynolds. Pp. 10. Gratis. Bulletin, 1934, No. 12: Privately Controlled Higher Education in the United States. By Fred J. Kelly and Ella B. Ratcliffe. Pp. v+56. 10 cents. Bulletin, 1934, No. 18: High-School Clubs. By Maris M. Proffitt. Pp. v+64. 10 cents. Pamphlet No. 50: Public Education in the Virgin Islands. By Katherine M. Cook. Pp. viii+32. 10 cents. Vocational Education Bulletin, No. 177: Vocational Agriculture in relation to Economic and Social Adjustments; Report of Conference on the relation of Vocational Agricultural Education to Emergency and Long-Time Programs affecting Agriculture. Pp. xviii+67. 10 cents. (Washington, D.C.: Government Printing Office.)

Transactions of the San Diego Society of Natural History. Vol. 8, No. 5: Three New Species of Pinnixa from the Gulf of California. By Steve A. Glassell. Pp. 13-14. Vol. 8, No. 6: New Marine Mollusca from West Mexico, together with a List of Shells collected at Punta Penasco, Sonora, Mexico. By Herbert N. Lowe. Pp. 15-34+plates 1-4. Vol. 8, No. 7: New Species of Mollusks of the Genus Triphora. By Fred Baker and V. D. P. Spicer. Pp. 35-46+plate 5. Vol. 8, No. 8: New Trilobite Species from the Anthracolithic of Northern California, and Griffithides Conwayensis, a New Name for a Trilobite Species from the Atoka Formation of Arkansas. By Harry R. Wheeler. Pp. 47-58+plate 6. Vol. 8, No. 9: Revision of some California Species of Astrodapsis. By George L. Richards, Jr. Pp. 59-66+plate 7. (San Diego: Society of Natural History.)

India Meteorological Department: Scientific Notes. Vol. 6, No. 61: Evaporation in India calculated from other Meteorological Factors. By P. K. Raman and V. Satakopan. Pp. 52. 1.12 rupees; 3s. Vol. 6, No. 62: The Distribution of Temperature in the Upper Levels of a Depression originating in the Bay of Bengal during the Indian South-west Monsoon. By N. K. Sur. Pp. 53-56+2 plates. 5 annas; 6d. (Delhi: Manager of Publications.)

Smithsonian Miscellaneous Collections. Vol. 93, No. 3: New Earthworms from China, with Notes on the Synonymy of some Chinese Species of Drawida and Pheretima. By G. E. Gates. (Publication 3293.) Pp. 19. (Washington, D.C.: Smithsonian Institution.)

## CATALOGUES

A Catalogue of Books in New Condition offered at Greatly Reduced Prices. (Catalogue 449.) Pp. 80. (Cambridge: W. Heffer and Sons, Ltd.)

The Gardener's Library: a Comprehensive List of Books on all Branches of Modern Horticulture and a Selection of the Early Literature. (New Series, No. 39.) Pp. 44. (London: Wheldon and Wesley, Ltd.)

Zeiss Microscopes and Accessories. (Mikro le.) 1934 edition. Pp. 158. (London: Carl Zeiss (London), Ltd.)