

concordant results. The greatest effects were found with carbon and nickel, and the smallest with lead and tin. HERBERT HABERLANDT: Investigations on the luminescence of fluorites and other minerals. Various new fluorites showing a natural red radio-photofluorescence are recorded, two of them showing the presence of radioactive inclusions. In certain fluorites with a yellowish-white photofluorescence, the active impurities are bituminous in character. JOSEF SCHINTLMEISTER and GEORG STETTER: Investigation of the disintegration of the light elements with the double-tube electrometer. All the light elements as far as chlorine have been examined. The fall in the disintegration is approximately exponential from the maximum for nitrogen, with a periodic function superimposed, the values for the odd elements being always greater than those for the even ones. A. SKRABAL: Reaction cycles. Reaction cycles are based on a reaction scheme which may be decomposed into two or more separate schemes with the same total reaction. These reactions occur far more frequently in chemical kinetics than is generally supposed, and include all reactions which proceed along two or more paths. OTTO AMPFERER: Tectonic studies in the Rhine valley.

Forthcoming Events

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

Sunday, February 24

BRITISH MUSEUM (NATURAL HISTORY), at 3 and 4.30.—M. A. Phillips: "Fossil Mammals".*

Monday, February 25

BRITISH MUSEUM (NATURAL HISTORY), at 11.30.—G. Seccombe Hett: "Bats".*

ROYAL GEOGRAPHICAL SOCIETY, at 5.30.—Sir Norman Watson: "In the Coast Range of British Columbia". (Film.)

ROYAL SOCIETY OF ARTS, at 8.—D. R. Wilson: "Factory Accidents". (Shaw Lecture. Succeeding lectures on March 4 and 11.)

Tuesday, February 26

UNIVERSITY COLLEGE, LONDON, at 5.30.—Prof. J. R. Mathews: "The Northern Element in the British Flora" (succeeding lectures on February 27 and 28).*

ROYAL SOCIETY OF ARTS, at 4.30.—L. A. Jordan: "Empire Production of Tung Oil".

Wednesday, February 27

UNIVERSITY COLLEGE, LONDON, at 5.30.—I. C. Gröndahl: "Norwegian Students' Life in the Nineteenth Century" (succeeding lecture on March 6).*

Thursday, February 28

BEDFORD COLLEGE FOR WOMEN, at 5.15.—Dr. R. A. Sampson: "Astronomical Time".*

THE CHEMICAL SOCIETY, at 8—(at the Royal Institution, Albemarle Street, W.1).—Dr. A. S. Russell: The Madame Curie Memorial Lecture.*

Friday, March 1

GEOLOGISTS' ASSOCIATION, at 7.30.—(at University College, Gower Street, W.C.1).—Annual General Meeting.

Sir Albert E. Kitson: "Outlines of the Geology of the Gold Coast, British West Africa".

ROYAL INSTITUTION, at 9.—A. Bryant: "Samuel Pepys: known and unknown".

Official Publications Received

GREAT BRITAIN AND IRELAND

The Institute of British Geographers. Publications Nos. 1 and 2: Transactions; and The Pastoral Industries of New Zealand, by R. Ogilvie Buchanan. Pp. xv+99. (London: George Philip and Son, Ltd.; Liverpool: Philip, Son and Nephew, Ltd.) 7s. 6d.

The Registrar-General's Statistical Review of England and Wales for the Year 1933. (New Annual Series, No. 13.) Tables, Part 2: Civil. Pp. iv+130. (London: H.M. Stationery Office.) 2s. net.

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1608 (A. 160): Abstract—Constitution of Magnesium-Rich Alloys of Magnesium and Nickel. By J. L. Haughton and R. J. M. Payne. Pp. 2. (London: H.M. Stationery Office.) 2d. net.

The University of London Animal Welfare Society. Eighth Annual Report, 1st July 1933 to 30th September 1934. Pp. 16. (London.)

Scientific Horticulture (formerly the H.E.A. Year Book). Vol. 3, 1935. Pp. 228+xliv. (Wye: Horticultural Education Association.) 3s. 6d. net.

The Carnegie Trust for the Universities of Scotland. Thirty-third Annual Report (for the Year 1933-34) submitted by the Executive Committee to the Trustees on 6th February 1935. Pp. iv+82. (Edinburgh.)

Congrès International des Sciences anthropologiques et ethnologiques. Compte-rendu de la première Session, Londres 1934. Pp. xxxii+340. (London: Royal Anthropological Institute.) 25s.

British Chemicals and their Manufacturers: the Official Directory of the Association of British Chemical Manufacturers (Incorporated). Pp. 459. (London: Association of British Chemical Manufacturers.) Gratis.

London School of Hygiene and Tropical Medicine. Classified Catalogue of Books in the Library, including Departmental Libraries. Part 2: Classes C and D: Theory and Practice of Medicine and History of Medicine. Pp. ii+31-51. (London.) Gratis.

OTHER COUNTRIES

Cornell University: Agricultural Experiment Station. Bulletin 610: A Study of Practices in Feeding Infants; Results of a Survey of 657 Babies in Villages of New York State, 1930. By Rachael Sanders Bizal. Pp. 34. Bulletin 613: An Economic Study of Land Utilization in Montgomery County, 1932. By F. F. Hill and George T. Blanch. Pp. 50. Bulletin 614: Rural Social and Economic Areas in Central New York. Pp. 100. Bulletin 615: Clothing Purchased by Farm Families in Tompkins County, New York, 1927-28. By Beulah Blackmore. Pp. 44. Bulletin 616: Study of Artificial Incubation of Game Birds, 1: Temperature Requirements for Pheasant and Quail Eggs; 2: Humidity Requirements for Pheasant and Quail Eggs. By Alexis L. Romanoff. Pp. 39. Memoir 169: A Physiological Study of Dormancy in *Tilia* Seed. By J. Nelson Spaeth. Pp. 78+4 plates. (Ithaca, N.Y.)

Smithsonian Miscellaneous Collections. Vol. 91, No. 17: Reports on the Collections obtained by the First Johnson-Smithsonian Deep-Sea Expedition to the Puerto Rican Deep—New Sponges from the Puerto Rican Deep. By M. W. de Laubenfels. (Publication 3283.) Pp. 28. Vol. 93, No. 1: The Effect of Ultraviolet Radiation on the Ova of the Ascarid Roundworms *Toxocara canis* and *Toxascaris leonina*. By W. H. Wright and E. D. McAlister. (Publication 3291.) Pp. 13. (Washington, D.C.: Smithsonian Institution.)

Colony and Protectorate of Nigeria. Annual Report on the Geological Survey Department for the Year 1933. Pp. ii+52+8 plates. (Lagos: C.M.S. Bookshop; London: Crown Agents for the Colonies.) 4s. net.

University of Michigan: School of Forestry and Conservation. Bulletin No. 5: The Hungarian Partridge in the Great Lakes Region. By Ralph E. Yeatter. Pp. 92. (Ann Arbor: University of Michigan Press.) 35 cents.

Palaeontologia Sinica. Series C, Vol. 8, Fascicle 1: On the Carnivora from Locality 1 of Choukoutien. By Pei Wen-Chung. Pp. 222+24 plates. Series C, Vol. 8, Fascicle 3: On the Insectivora, Chiroptera, Rodentia and Primates other than *Sinanthropus* from Locality 1 at Choukoutien. By Chung-Chien Young. Pp. 166+10 plates. Series C, Vol. 10, Fascicle 1: On the Fossil Pisces, Amphibia and Reptilia from Choukoutien, Localities 1 and 3. By M. N. Bien. Pp. 36+3 plates. (Peiping: Geological Survey of China; The French Bookstore; London: Edward Goldston, Ltd.)

Trinidad and Tobago. Report on an Investigation into the Uses and Marketing of Forest Products in Trinidad and Tobago. (Council Paper No. 100 of 1934.) Pp. 85. 2s. 6d. Forestry Pamphlet No. 1: What Forestry in Trinidad Means. Pp. 12+2 plates. 6d. Forestry Pamphlet No. 2: The Forest Types of Trinidad and their Principal Species. Pp. 16+2 plates. 6d. (Trinidad: Government Printing Office.)

Union of South Africa: Department of Agriculture. Science Bulletin No. 137 (Division of Chemistry, Series No. 134): Influence of Fertilizers on the Nitrogen and Carbon Cycles in Soils; Experiments carried out on the Red Loam of the Zebediela Area, Northern Transvaal. By Dr. P. Kamerman and H. Klintworth. Pp. 26. (Pretoria: Government Printer.) 3d.

Biological Movie Booklets. Vol. 1: Normal Cell Division. By Clyde E. Keeler. Pp. 46. Vol. 2: Maturation of Sperm. By Clyde E. Keeler. Pp. 94. Vol. 6: Fertilization. By Clyde E. Keeler. Pp. 65. (Washington, D.C.: American Genetic Association.) 3 vols., 1.50 dollars.

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