

ROYAL COLLEGE OF PHYSICIANS OF LONDON, at 5.—Dr. C. E. Lakin: The Borderlands of Medicine (Lumleian Lectures) (1).

ROYAL INSTITUTION OF GREAT BRITAIN, at 5.15.—Prof. J. B. S. Haldane: Heredity in Man (4).

CHEMICAL SOCIETY (at Institution of Mechanical Engineers), at 5.30.—Prof. L. Ruzicka: The Life and Work of Otto Wallach (Fiedler Lecture).

#### FRIDAY, MARCH 11

ROYAL ANTHROPOLOGICAL INSTITUTE (Sociological Research Committee), at 4.—Miss C. H. Wedgwood: Stages of Economic Development in Melanesia.

ROYAL SOCIETY OF ARTS, at 4.30.—Indian Meeting.

#### SATURDAY, MARCH 12

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Lord Rutherford of Nelson: Discovery and Properties of the Electron (3).

### Official Publications Received

#### BRITISH

Philosophical Transactions of the Royal Society of London. Series A, Vol. 230, A692: On the Groupings and General Behaviour of Solid Particles under the Influence of Air Vibrations in Tubes. By Prof. E. N. da C. Andrade. Pp. 413-445+plates 21-26. (London: Harrison and Sons, Ltd.) Nigeria. Ninth Annual Bulletin of the Agricultural Department, 1st August 1930. Pp. 248. 5s. Third Special Bulletin of the Agricultural Department: The Maintenance of Soil Fertility in Southern Nigeria. By C. J. Lewin. Pp. 43. 2s. 6d. Annual Report on the Agricultural Department for the Year 1930. Pp. 14. 1s. 6d. (Lagos: C.M.S. Bookshop; London: The Crown Agents for the Colonies.)

Canada: Department of Mines: Geological Survey. Memoir 165: Studies of Geophysical Methods, 1928 and 1929. (No. 2666.) Pp. vi+227. 45 cents. Summary Report, 1930, Part A. (No. 2292.) Pp. 196A. Summary Report, 1930, Part B. (No. 2289.) Pp. 103B. Summary Report, 1930, Part C. (No. 2293.) Pp. 131C. (Ottawa: F. A. Acland.)

Proceedings of the Royal Irish Academy. Vol. 40, Section B, No. 11: Reports from the Limnological Laboratory. 2: The Diurnal Migrations of the Crustacea of the Plankton in Lough Derg. By R. Southern and A. C. Gardiner. Pp. 121-159. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s. 6d.

Nigeria. Identification of Timbers available in the moist Deciduous to Savannah Forests in Lagos Colony, Abeokuta, Ondo and Oyo Provinces. Pp. 10. (Lagos: Government Printer.)

Sydney University Reprints. Series 1 (Agricultural and Veterinary Science). Vol. 1, Nos. 18-24. Series 4 and 5 (Engineering and Architecture). Vol. 1, Nos. 1-3. Series 6 (Geology and Geography). Vol. 2, Nos. 12-23. Series 8 (Medical Sciences—Clinical). Vol. 1, Nos. 22-32. Series 9 (Medical Sciences—Non-clinical). Vol. 3, Nos. 1-19. Series 11 (Physics, Mathematics and Astronomy). Vol. 1, Nos. 20-25. Series 12 (Social Sciences—Economics, Education, History, Philosophy, Psychology and Anthropology). Vol. 1, Nos. 20-23. Series 13 (Zoology). Vol. 1, Nos. 36-41. (Sydney.)

Forest Bulletin No. 76: List of Plants collected in West Nepal. Pp. ii+9. (Calcutta: Government of India Central Publication Branch.) 4 annas; 5d.

Publications of the South African Institute for Medical Research. No. 29: Immunological Studies in Reptiles and their relation to Aspects of Immunity in Higher Animals. By Dr. E. Grasset and A. Zoutendyk. Pp. 377-459. (Johannesburg.)

(University of London): County Councils of Kent and Surrey. The Journal of the South-Eastern Agricultural College, Wye, Kent. No. 29, January. Edited for the College by Dr. S. Graham Brade-Birks. Pp. 63. (Wye.) 2s. 6d.; residents in Kent and Surrey, 1s. 6d.

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1411 (Ac. 532—T. 3020): Effect of Lateral Stabilizers on Take-off of a Flying Boat. By L. P. Coombes and R. H. Read. Pp. 5+4 plates. 4d. net. No. 1412 (Ac. 533—T. 3092): Theoretical Investigation of the Take-off Time of *Singapore II*. By W. G. A. Perring. Pp. 10+4 plates. 9d. net. No. 1415 (Ac. 536—S. and C. 396): Moments of Inertia of Aeroplanes. By S. B. Gates. Pp. 8+5 plates. 9d. net. No. 1416 (Ac. 537—S. and C. 401): Effect of Centrifugal Force on the Controls in a Spin. By S. B. Gates. Pp. 3. 3d. net. No. 1428 (T. 3154): Discrepancies in Performances of Aircraft of Same Type. By W. G. Jennings. Pp. 5+2 plates. 7d. net. No. 1424 (M. 74—L.C.E. 792): Adhesion and Fatigue of Thin Coatings of White Metal deposited on Mild Steel Surfaces. By T. E. Stanton. Pp. 8+2 plates. 6d. net. No. 1389 (Ac. 505—T. 3044, 2925): Pressure and Force Measurements on Aircraft-Body Combinations. By H. Bateman and F. C. Johansen. Pp. 62+13 plates. 3s. net. No. 1402 (Ac. 523—T. 3158): Growth of Circulation about a Wing and an Apparatus for measuring Fluid Motion. By Dr. P. B. Walker. Pp. 75+41 plates. 4s. 6d. net. (London: H.M. Stationery Office.)

The National Institute of Agricultural Botany. Twelfth Report and Accounts, 1930-31. Pp. 24. (Cambridge.)

The Journal of the Royal Horticultural Society. Edited by F. J. Chittenden. Vol. 57, Part 1, January. Pp. 156+lii+xx+46 plates. (London.) 7s. 6d.

The National Opportunity: a Fresh Call for Service. An Address by H.R.H. the Prince of Wales, delivered at the Royal Albert Hall on January 27th, 1932. Pp. 10. (London: The National Council of Social Service.) 6d.

Proceedings of the Royal Society. Series A, Vol. 135, No. A826, February 1. Pp. 281. (London: Harrison and Sons, Ltd.) 9s. 6d.

The Carnegie Trust for the Universities of Scotland. Thirtieth Annual Report (for the Year 1930-31) submitted by the Executive Committee to the Trustees on 10th February 1932. Pp. iv+87. (Dunfermline.)

The Journal of the Institution of Electrical Engineers. Edited by P. F. Rowell. Vol. 70, No. 422, February. Pp. 189-296+xx. (London; E. and F. N. Spon, Ltd.) 10s. 6d.

#### FOREIGN

U.S. Department of Commerce: Coast and Geodetic Survey. Serial No. 522: Results of Observations made at the United States Coast and Geodetic Survey Magnetic Observatory near Honolulu, Hawaii, in 1925 and 1926. By Daniel L. Hazard. Pp. 109. 45 cents. Serial No. 523: Results of Observations made at the United States Coast and Geodetic Survey Magnetic Observatory at Cheltenham, Maryland, in 1925 and 1926. By Daniel L. Hazard. Pp. 109. 45 cents. (Washington, D.C.: Government Printing Office.)

Proceedings of the United States National Museum. Vol. 79, Art. 33: A New Middle Cambrian Merostome Crustacean. By Charles Elmer Resser. (No. 2899.) Pp. 4+1 plate. Vol. 80, Art. 11: North American Two-Winged Flies of the Genus *Spathimeigenia*, with Descriptions of Five New Species. By J. M. Aldrich. (No. 2911.) Pp. 10. Vol. 80, Art. 17: A New Marine Shell of the Genus *Xenophora* from Florida. By Paul Bartsch. (No. 2917.) Pp. 2+1 plate. (Washington, D.C.: Government Printing Office.)

U.S. Department of the Interior: Office of Education. Bulletin, 1931, No. 17: Bibliography on Education of the Negro; comprising Publication from January 1928 to December 1930. Compiled by Ambrose Caliver and others. Pp. iii+34. 10 cents. Bulletin, 1931, No. 20: Biennial Survey of Education in the United States, 1928-1930. Chapter 2: Elementary Education. By Bess Goodykoontz, Mary Dabney Davis and Mina M. Langvick. Pp. 62. 10 cents. Bulletin, 1931, No. 20: Biennial Survey of Education in the United States. Chapter 3: Secondary Education. Pp. 23. 10 cents. (Washington, D.C.: Government Printing Office.)

American Institute of Weights and Measures. Scientific Papers of the Institute. The Dimensional Problem in International Standardisation. By Luther D. Burlingame. Pp. 12. (New York City.)

Geological Survey of China. Palaeontologia Sinica, Series C, Vol. 6, Fascicle 4: Struthious Remains from China and Mongolia, with Descriptions of *Struthio wimani*, *Struthio andersoni* and *Struthio mongolicus* Spp. nov. By Percy Roycroft Lowe; with a Note on Remains of Carinate Birds, by Dorothea M. A. Bate. Pp. 47+4 plates. (Peiping.)

Proceedings of the Imperial Academy. Vol. 7, No. 10, December. Pp. xxvii-xxviii+389-395. (Tokyo.)

University Observatory, Oslo. Publication No. 2: On the Theory of Oscillating Fluid Globes. By S. Rosseland. Pp. 22. (Oslo: A. W. Brøgger Boktrykkeri A.-S.)

Memoirs of the College of Science, Kyoto Imperial University. Series B. Vol. 6, No. 5, Article 7: Contributions ad Caricologiam Asiae Orientalis. By Jisaburo Ohwi. Pp. 239-270. Vol. 6, No. 6, Article 8: Über die Dorsiventralität der unifazialen Blätter von *Iris japonica*, Thunb. und ihre Beeinflussbarkeit durch die Schwerkraft. Von Shun-ichiro Imamura. Pp. 271-331+plates 21-22. (Tokyo and Kyoto: Maruzen Co., Ltd.)

Holiday Courses in Europe, 1932. Compiled by the League of Nations' Institute of Intellectual Co-operation. Pp. 56. (London: Oxford University Press; Boston, Mass.: The World Peace Foundation; Paris: Librairie Vuibert; Leipzig: Alfred Lorenz.) 1s.

Collection des travaux chimiques de Tchécoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 4, No. 1, Janvier. Pp. 48. (Prague: Regia Societas Scientiarum Bohemica.)

Statens Skogsforsöksanstalt. Flygblad No. 40: Skogsträdens fruktsättning år 1929. Av L. Tirén. Pp. 19. 30 öre. Flygblad No. 41: Skogsträdens fruktsättning år 1930. Av L. Tirén. Pp. 19. 30 öre. Flygblad No. 42: Skogsträdens fruktsättning år 1931. Av L. Tirén. Pp. 19. 30 öre. Meddelanden, Häfte 26, 1930-31. Pp. iv+582. 9.00 kr. (Stockholm.)

The University of Colorado Studies. Vol. 19, No. 1: Abstracts of Theses for Higher Degrees, 1931. Pp. 75. (Boulder, Colo.) 1.00 dollar.

Field Museum of Natural History: Department of Anthropology. Guide, Part 5: Ethnology of Melanesia, Joseph N. Field Hall (Hall A, Ground Floor). By Albert B. Lewis. Pp. 209+64 plates. (Chicago.) 1.75 dollars.

Cornell University: Agricultural Experiment Station. Bulletin 530: A Study of Phosphatic Limestone as a Mineral Supplement. By Chester Toile and L. A. Maynard. Pp. 27+2 plates. Memoir 136: Studies on the Fire-Blight Organism, *Bacillus amylovorus*. By A. L. Pierstorff. Pp. 53+3 plates. Memoir 137: Some Nitrogen Relationships in Muck Soils. By B. D. Wilson and G. R. Townsend. Pp. 14. Memoir 138: The Effect of Pruning Apple Trees at Planting Time. By Joseph Oskamp. Pp. 50. (Ithaca, N.Y.)

Proceedings of the United States National Museum. Vol. 80, Art. 7: A Second Collection of Birds from the Provinces of Yunnan and Szechuan, China, made for the National Geographic Society by Dr. Joseph P. Rock. By J. H. Riley. (No. 2907.) Pp. 91. (Washington, D.C.: Smithsonian Institution.)

Proceedings of the American Academy of Arts and Sciences. Vol. 66, No. 13: Records of Meetings, 1930-1931; Officers and Committees for 1931-1932; List of the Fellows, Associates and Foreign Honorary Members; Statutes and Standing Votes; Rumford Premium; Index. Pp. 479-565. 1.35 dollars. Vol. 67, No. 1: Volume—Temperature—Pressure Relations for several Non-volatile Liquids. By P. W. Bridgman. Pp. 27. 60 cents. Vol. 67, No. 2: Physical Properties of Single Crystal Magnesium. By P. W. Bridgman. Pp. 29-41. 40 cents. (Boston, Mass.)

Ministerio da Educação e Saude Pública: Observatório Nacional do Rio de Janeiro. Taboas das Marés para o Ano de 1932 nos Portos do Rio de Janeiro, Belém, S. Luiz, Amaração, Camocim, Fortaleza, Natal, Cabedelo, Tambaú, Recife, Aracajú, Baía, Ilhéos, Santos e Parangua. Pp. 185. (Rio de Janeiro.)

Ministerio da Educação e Saude Pública. Anuario publicado pelo Observatório Nacional do Rio de Janeiro para o Ano de 1932. Ano 48. Pp. xv+408. (Rio de Janeiro.)

Société Française de Physique. Annuaire 1931. Pp. 111. (Paris: Société Française de Physique.)