

1932.—Ch. Dubois and N. Sollier : The experimental diagnosis of melitococci in sheep and goats by means of the allergy reaction. An emulsion of *Br. abortus* has proved to be the best antigen for this reaction : by its means sick animals and germ carriers can be detected. All subjects reacting can be considered as dangerous for other animals and for man.

### Forthcoming Events

#### MONDAY, DEC. 5

ROYAL GEOGRAPHICAL SOCIETY, at 8.30.—Lieut.-Col. C. W. Furlong : "Tierra del Fuego".

UNIVERSITY OF LEEDS, at 5.15.—Dr. E. J. Holmyard : "Chemistry in the Ancient World and the Middle Ages".

#### WEDNESDAY, DEC. 7

BRITISH INSTITUTE OF RADIOLOGY, at 5—(Thirteenth Mackenzie Davidson Memorial Lecture at the Central Hall, Westminster).—Dr. J. Chadwick : "The Neutron".

ENTOMOLOGICAL SOCIETY OF LONDON, at 8.45.—Discussion on "Protective Adaptations of Animals, especially Insects", to be opened by Prof. E. B. Poulton.

BIRKBECK COLLEGE, at 8.15—(Foundation Oration).—The Right Hon. Lord Macmillan : "The Sense of Values".

#### THURSDAY, DEC. 8

BRITISH INSTITUTE OF RADIOLOGY, at 5—(Fifteenth Sylvanus Thompson Memorial Lecture at the Central Hall, Westminster).—The Right Hon. The Viscount Lee of Fareham : "Radium as a Therapeutic Agent—The Case for National Control".

ROYAL SOCIETY, at 4.30—(Croonian Lecture).—Prof. Davidson Black : "The Discovery of *Sinanthropus*".

#### FRIDAY, DEC. 9

UNIVERSITY COLLEGE, LONDON, at 5.30.—Dr. Davidson Black : "*Sinanthropus*" (second lecture on Dec. 12).

BRITISH INSTITUTE OF RADIOLOGY, at 2.30—(Presidential Address at the Central Hall, Westminster).—Prof. F. L. Hopwood.

ROYAL INSTITUTION, at 9—Prof. J. G. Gray : "Gyroscopic Tops and Combinations".

BRITISH INSTITUTE OF RADIOLOGY, Dec. 7–9. Annual Congress at the Central Hall, Westminster.

### Official Publications Received

#### GREAT BRITAIN AND IRELAND

International Federation of University Women. Bulletin No. 14 : Report of the Sixth Conference, Edinburgh, July 27 to August 4, 1932. Pp. 181. (London : Crosby Hall.)

University of Durham. Abstracts of Theses for Doctorates presented by Candidates who have received the Degrees in Convocation during the Academic Year 1931–1932. Pp. 12. (Durham.)

A Study of the Deaf in England and Wales, 1930 to 1932 : being a Report by Dr. A. Eichholz to the Minister of Health and the President of the Board of Education. Pp. iv+206. (London : H.M. Stationery Office.) 3s. net.

The Journal of the Institution of Electrical Engineers. Edited by P. F. Rowell. Vol. 71, No. 431, November. Pp. 685–836+xviii. (London : E. and F. N. Spon, Ltd.) 10s. 6d.

The British Mycological Society Transactions. Edited by J. Ramsbottom, B. F. Barnes and H. Wormald. Vol. 17, Part 3, 11 November. Pp. 157–236. (London : Cambridge University Press.) 7s. 6d.

Transactions of the Geological Society of Glasgow. Vol. 19, Part 1, 1928–1931 (continued). Pp. iv+224. (Glasgow.) 7s. 6d.

Air Ministry : Aeronautical Research Committee : Reports and Memoranda. No. 1460 (I.C.E. 850) : Experiments with a Super-charged Single-Cylinder Unit. By Dr. G. F. Mucklow. Pp. 57+42 plates. 3s. net. No. 1468 (T.3263) : High Speed Induced Wind Tunnel. By A. Bailey and S. A. Wood. Pp. 21+15 plates. 1s. 3d. net. No. 1478 (T.3254) : Efficiency of Tail Plane behind Wing of R.A.F. 34 Section. By D. M. Hirst and A. S. Hartsorn. Pp. 4+4 plates. 4d. net. (London : H.M. Stationery Office.)

The North of Scotland College of Agriculture. Report on the Work of the North of Scotland College for the Year 1931–32. Pp. 36. (Aberdeen.)

Philosophical Transactions of the Royal Society of London. Series A, Vol. 231, A694 : The Electric Field of Overhead Thunderclouds. By Dr. Sudhansu Kumar Banerji. Pp. 27+6 plates. (London : Harrison and Sons, Ltd.)

Department of Scientific and Industrial Research. Report of Further Tests by the Director of Fuel Research on the Turner Retort installed at the Works of the Comac Oil Co., Ltd., Coalburn, Lanarkshire : Tests carried out 13th November to 3rd December, 1930. Pp. viii+35. (London : H.M. Stationery Office.) 9d. net.

Department of Scientific and Industrial Research. Building Science Abstracts. Vol. 5 (New Series), No. 10, October. Abstracts Nos. 1762–1951. Pp. 327–362. (London : H.M. Stationery Office.) 1s. net.

Air Ministry : Aeronautical Research Committee : Reports and Memoranda. No. 1426 (T.3235) : Recovery from a Spin. By L. W. Bryant and Miss I. M. W. Jones. Pp. 24+8 plates. 1s. 3d. net. No. 1474 (T.3161B) : The Distribution of Turbulence over the Central Region of a Pipe. By A. Fage and H. C. H. Townend. Pp. 6+5 plates. 6d. net. No. 1484 (G26.40) : Reduction of Fire Risk by Induction Pipe Flame Traps. By Andrew Swan, Squadron Leader W. Helmore and W. C. Clothier. Pp. 16+11 plates. 1s. net. (London : H.M. Stationery Office.)

#### OTHER COUNTRIES

U.S. Department of the Interior : Geological Survey. Water-Supply Paper 659-A : A Method of Estimating Ground-Water Supplies based on Discharge by Plants and Evaporation from Soil : Results of Investigations in Escalante Valley, Utah. By Walter N. White. (Contributions to the Hydrology of the United States, 1932.) Pp. v+105+10 plates. Water-Supply Paper 659-B : Geology and Ground-Water Resources of the Dalles Region, Oregon. By Arthur M. Piper. (Contributions to the Hydrology of the United States, 1932.) Pp. iv+107–189+plates 11–19. 25 cents. Water-Supply Paper 698 : Surface Water Supply of the United States, 1930. Part 3 : Ohio River Basin. Pp. viii+292. 20 cents. Water-Supply Paper 700 : Surface Water Supply of the United States, 1930. Part 5 : Hudson Bay and Upper Mississippi River Basins. Pp. v+149. 15 cents. Water-Supply Paper 720 : Surface Water Supply of the United States, 1931. Part 10 : The Great Basin. Pp. v+99. 10 cents. (Washington, D.C. : Government Printing Office.)

Proceedings of the American Academy of Arts and Sciences. Vol. 67, No. 5 : Bacterial Detoxification. By Robert S. Harris and John W. M. Bunker. Pp. 147–168. 60 cents. Vol. 67, No. 6 : Note on Stellar Perturbations of nearly Parabolic Orbits. By E. Öpik. Pp. 169–184. 45 cents. (Boston, Mass.)

Bulletin of the Madras Government Museum. New Series, General Section, Vol. 1, Part 2 : Catalogue of the South Indian Hindu Metal Images in the Madras Government Museum. By Dr. F. H. Gravely and T. N. Ramachandran. Pp. ii+144+23 plates. (Madras : Government Press.) 5.8 rupees.

Index to the Memoirs of the Geological Survey of India, Vols. 1–54, 1859 to 1929. By T. H. D. La Touche. Pp. vii+431. (Calcutta : Government of India Central Publication Branch.)

Report on the Zoological Survey of India for the Years 1929 to 1932. Pp. iii+lvii. (Calcutta : Government of India Central Publication Branch.) 1 rupee ; 1s. 9d.

Proceedings of the United States National Museum. Vol. 82, Art. 1 : A Remarkable New Genus and Species of Two-winged Flies related to the *Cestridae*. By Charles H. T. Townsend. (No. 2942.) Pp. 4. (Washington, D.C. : Government Printing Office.)

Conseil Permanent International pour l'Exploration de la Mer. Faune ichtologique de l'Atlantique nord. Publiée sous la direction de Prof. Joulin. No. 11. 24 planches. (Copenhagen : Andr. Fred. Høst et fils.) 4 kr.

Field Museum of Natural History. Anthropological Series, Vol. 17, No. 4 : The Solar Year of the Mayas at Quirigua, Guatemala. By J. Eric Thompson. (Publication 315.) Pp. 365–421. (Chicago.) 35 cents.

Journal of the Indian Institute of Science. Vol. 15A, Part 6 : The Equilibrium between Dimethyl Ether, Methyl Alcohol and Water. By N. G. Gajendragad, S. K. Kulkarni Jatkat and H. E. Watson. Pp. 59–70. (Bangalore.) 1 rupee.

U.S. Department of the Interior : Office of Education. Leaflet No. 43 : Elementary School Principals, some Data on their Education, Experience and Salaries. By Walter S. Deffenbaugh. Pp. 11. (Washington, D.C. : Government Printing Office.) 5 cents.

Annual Report of the Board of Regents of the Smithsonian Institution, showing the Operations, Expenditures and Condition of the Institution for the Year ending June 30, 1931. (Publication 3142.) Pp. xiii+592+87 plates. (Washington, D.C. : Government Printing Office.)

Journal of the Faculty of Agriculture, Hokkaido Imperial University. Vol. 30, Part 5 : Studies on the Nature of "Koji-Diastase". By Mitsuji Ito. Pp. 243–386. (Tokyo : Maruzen Co., Ltd.)

Japanese Journal of Mathematics. Transactions and Abstracts, Vol. 9, No. 2, October. Pp. 87–160. (Tokyo : National Research Council of Japan.)

Japanese Journal of Astronomy and Geophysics. Transactions and Abstracts, Vol. 10, No. 1. Pp. 79+16. (Tokyo : National Research Council of Japan.)

Journal of the Faculty of Science, Imperial University of Tokyo. Section 2 : Geology, Mineralogy, Geography, Seismology. Vol. 3, Part 6 : Tertiary Mollusca from the Coalfield of Uryu, Ishikari. By Matajiri Yokoyama. Pp. 221–247+4 plates. (Tokyo : Maruzen Co., Ltd.) 0.70 yen.

Contributions from the Physical Laboratories of Harvard University for the Years 1930 and 1931. Vol. 21. 40 papers. (Cambridge, Mass.) The University of Colorado Studies. Vol. 18, No. 4. Pp. 399–420. (Boulder, Colo.) 1 dollar.

#### CATALOGUES

Catalogue of New Book Bargains. (No. 396.) Pp. 16. Book Bargains. (No. 399.) Pp. 6. (Cambridge : W. Heffer and Sons, Ltd.) A Classified Catalogue of Books, Autographs and Manuscripts. (Catalogue No. 552.) Pp. 124. (London : Francis Edwards, Ltd.)