

## Forthcoming Events

TUESDAY, Nov. 1

CHADWICK PUBLIC LECTURE—(at the Royal Society of Tropical Medicine and Hygiene, 26, Portland Place, W.1.)—Prof. Keilstra: "Hygiene in the Far East", at 5.15 P.M.

INSTITUTION OF CIVIL ENGINEERS—(Opening Meeting). Sir Murdoch Macdonald: Presidential Address, at 6 P.M.

WEDNESDAY, Nov. 2

INSTITUTION OF HEATING AND VENTILATING ENGINEERS—(at the Lecture Room, Home Office Industrial Museum, Horseferry Road, Westminster, S.W.1.)—Mr. A. F. Dufton: "Radiant Heat", at 7 P.M. (open to non-members).

THURSDAY, Nov. 3

KING'S COLLEGE, LONDON.—Prof. Martin Knudsen: "Some Aspects of the Kinetic Theory of Gases", at 5.30 P.M. (succeeding lectures on Nov. 10 and 17).

UNIVERSITY OF LONDON—(Semon Lecture at the Royal Society of Medicine, 1, Wimpole Street, W.1.)—Prof. Otto Kahler: "The Tonsil Problem", at 5 P.M.

FRIDAY, Nov. 4

INSTITUTION OF MECHANICAL ENGINEERS—(Thomas Hawksley Lecture).—The Right Hon. Lord Rutherford: "Atomic Projectiles and their Application", at 6 P.M.

BRITISH SCIENCE GUILD—(Alexander Pedler Lecture).—Prof. F. T. G. Hobday: "Animals as a National Asset and Responsibility", at Burton-on-Trent.

SATURDAY, Nov. 5

GEOLOGISTS' ASSOCIATION OF LONDON.—Special General Meeting in the Botany Theatre, University College, Gower Street, W.C.1, at 3 P.M.

ROYAL INSTITUTION.—Prof. E. N. da C. Andrade: "Rays and Radiations", at 5.15 P.M.

## Official Publications Received

GREAT BRITAIN AND IRELAND

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1432 (T.3099): Single Crystals of Bismuth subjected to Alternating Torsional Stresses. By Dr. H. J. Gough and H. L. Cox. Pp. 25+4 plates. 1s. 6d. net. No. 1434 (T.3163 extd.): Hot Wire and Spark Shadowgraphs of the Airflow through an Aircraft. By H. C. H. Townend. Pp. 10+7 plates. 1s. 3d. net. (London: H. M. Stationery Office.)

Observations of Colour Temperatures of Stars made at the Royal Observatory, Greenwich, in the Years 1926-1932, under the direction of Sir Frank Dyson. Pp. iii+63. (London: H. M. Stationery Office.) 6s. net.

Annals of the Cape Observatory. Vol. 13, Part 3: Discussion of Observations of Occultations of Stars by the Moon, 1672-1908; being a revision of Newcomb's "Researches on the Motion of the Moon, Part 2". By Dr. H. Spencer Jones. Pp. 70. (London: H. M. Stationery Office.) 5s. net.

Proceedings of the Royal Society. Series A, Vol. 137, No. A833, September 1. Pp. 481-723. (London: Harrison and Sons, Ltd.) 12s.

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1459 (T.3220): Interference on Characteristics of Aerofol in Wind Tunnel of Rectangular Section. By H. Glauert. Pp. 7+1 plate. (London: H. M. Stationery Office.) 6d. net.

The Journal of the Institution of Electrical Engineers. Edited by P. F. Rowell. Vol. 71, No. 429, September. Pp. 405-540+xviii. (London: E. and F. N. Spon, Ltd.) 10s. 6d.

The National Institute of Poultry Husbandry, Harper Adams Agricultural College, Newport, Shropshire. Bulletin No. 7: Mixed Protein Rations for Laying Hens and Breeders (Single Comb White Leghorns). By Raymond T. Parkhurst. Pp. 20. Bulletin No. 8: The Production of Table Ducklings; Barley Meal and Sussex Ground Oats for Rearing and Fattening Table Ducklings. By Violet K. Tallent. Pp. 20. (Newport.)

University of Manchester: Faculty of Technology. Prospectus of University Courses in the Municipal College of Technology, Manchester, Session 1932-33. Pp. 372. (Manchester.)

Character and Personality: an International Quarterly for Psycho-diagnosis and Allied Studies. Edited by Robert Saudek. Vol. 1, No. 1, September. Pp. 87. (London: George Allen and Unwin, Ltd.) 2s.

The Journal of the Quekett Microscopical Club. Edited by W. S. Warton. Ser. 2, Vol. 16, No. 98, September. Pp. 215-260+plates 5-10. (London: Williams and Norgate, Ltd.) 5s. net.

Brochure containing Lists of Recent Additions to the Library, Cabinets and Collections of Instruments of the Quekett Microscopical Club. Pp. 10. (London: Quekett Microscopical Club.) 1s.

Proceedings of the Royal Irish Academy. Vol. 41, Section B, No. 5: The Geology of the Roundstone District, County Galway. By L. R. Wager. Pp. 45-72+5 plates. (Dublin: Hodges, Figgis and Co.; London: Williams and Norgate, Ltd.) 1s. 6d.

Air Ministry: Aeronautical Research Committee: Reports and Memoranda. No. 1463 (T.3224): Acceleration of Aeroplanes in Vertical Air Currents, Part 1. By H. R. Fisher. Pp. 16+4 plates. 1s. net. No. 1456 (T.3193): Relation between Ground Contours, Atmospheric Turbulence, Wind Speed and Direction. By W. R. Morgans. Pp. 39+12 plates. 2s. 3d. net. No. 1464 (T.3216): Wind Tunnel Tests of Recommendations for Prevention of Wing Flutter. By B. Lockspeiser and C. Callen. Pp. 32+13 plates. 1s. 9d. net. No. 1469 (T.3234): Induced Flow through a Partially Choked Pipe. By H. Glauert, D. M. Hirst and A. S. Hartshorn. Pp. 15+4 plates. 1s. net. No. 1470 (T.3249): Wind Tunnel Interference on Aerofolils. By H. Glauert. Pp. 11+4 plates. 9d. net. (London: H. M. Stationery Office.)

Transactions of the Leicester Literary and Philosophical Society, together with the Council's Report and the Reports of the Sections 1931-32. Vol. 33. Pp. 51. (Leicester.)

## OTHER COUNTRIES

Records of the Geological Survey of India. Vol. 66, Part 1. Pp. 179+24+2 plates. (Calcutta: Government of India Central Publication Branch.) 2.12 rupees; 5s.

Ministry of Agriculture, Egypt: Technical and Scientific Service. Bulletin No. 121: Contributions to a Knowledge of the White Flies (*Aleurodidae*) of Egypt (I). By Prof. Dr. H. Priesner and Mahmud Hosny. Pp. 8+6 plates. 2 P.T. Bulletin No. 122: Sand-sowing in Growing Cotton. By Gadallah Aboul Ela. Pp. 12+2 plates. 5 P.T. (Cairo: Government Press.)

Ministry of Public Works, Egypt: Physical Department. Helwan Observatory Bulletin No. 35: Installation of the Schuster-Smith Magnetometer, and the Helwan Standard of Horizontal Intensity. By P. A. Curry. Pp. 11+2 plates. (Cairo: Government Press.)

Smithsonian Miscellaneous Collections. Vol. 87, No. 11: Report on Archeological Research in the Foothills of the Pyrenees. By J. Townsend Russell. (Publication 3174.) Pp. 5+8 plates. (Washington, D.C.: Smithsonian Institution.)

Department of Science and Agriculture, Jamaica. Entomological Bulletin No. 6: Lecture delivered under the Auspices of the Citrus Producers' Association on the occasion of the Importation into Jamaica of a Parasite (*Bracon caryus*, Silv.) of the Citrus Black Fly (*Aleurocanthus woglumi*, Ash.). By W. H. Edwards. Pp. ii+12. (Kingston, Jamaica: Government Printing Office.)

Proceedings of the United States National Museum. Vol. 81, Art. 5: A New Trematode of the Genus *Urotrema* from Bats. By Joseph E. Alicata. (No. 2928.) Pp. 4. Vol. 81, Art. 8: The Fishes obtained by Lieut. H. C. Kellers of the United States Naval Eclipse Expedition of 1930, at Niuafoou Island, Tonga Group, in Oceania. By Henry W. Fowler. (No. 2931.) Pp. 9. Vol. 81, Art. 16: Notes on the Helminth Parasites of the Opossum (*Didelphis virginiana*) in South-east Texas, with Descriptions of Four New Species. By Asa C. Chandler. (No. 2939.) Pp. 15. (Washington, D.C.: Government Printing Office.)

Canada: Department of Mines: Mines Branch. Gold in Canada. By A. H. A. Robinson. (No. 730.) Pp. vii+92. (Ottawa: F. A. Acland.) 20 cents.

Sveriges Geologiska Undersökning. Ser. Ba, Nr. 12: Kvartärgeologisk karta över Stockholmsstraktens, Skala 1:50000. 5.00 kr. Stockholmsstraktens Kvartärgeologi. Av Gerard de Geer. Beskrivning till kvartärgeologisk karta över Stockholmsstraktens, Skala 1:50000. Bilaga med specialundersökningar; with English Explanations. Pp. 89. 3.00 kr. (Stockholm: P. A. Norstedt and Söner.)

Geological Survey of China. Soil Bulletin No. 4: Soil Survey of the Salachi Area, Suiyuan Province, China. By Robert L. Pendleton, L. C. Chang, W. Chen and K. C. Hou. Pp. 42+8 plates. (Peiping.)

Bulletin of the American Museum of Natural History. Vol. 59, Art. 8: Fossil Sirenia of Florida and the Evolution of the Sirenia. By George Gaylord Simpson. Pp. 419-503. (New York City.)

Carnegie Institution of Washington. Publication No. 426: Gorillas in a Native Habitat. Report of the Joint Expedition of 1929-30 of Yale University and Carnegie Institution of Washington for Psychological Study of Mountain Gorillas (*Gorilla beringei*) in Parc National Albert, Belgian Congo, Africa. Pp. iv+66+22 plates. (Washington, D.C.: Carnegie Institution.)

Publications of the Dominion Observatory, Ottawa. Vol. 10: Bibliography of Seismology. No. 14: April, May, June, 1932. By Ernest A. Hodgson. Pp. 227-244. (Ottawa: F. A. Acland.) 25 cents.

Collection des travaux chimiques de Tchécoslovaquie. Rédigée et publiée par E. Votoček et J. Heyrovský. Année 4, No. 7-8, Juillet-Août. Pp. 285-376. (Prague: Regia Societas Bohemica Scientiarum.)

Journal of the Indian Institute of Science. Vol. 15B, Part 3: Transients in Negative Series Circuits. By L. C. Verman. Pp. 33-42. 1-4 rupees. Vol. 15B, Part 4: Telephony as Carrier and One Side Band. By S. P. Chakravarti. Pp. 43-48. 1 rupee. (Bangalore.)

Journal of the University of Bombay. Vol. 1, Part 1, July. Pp. 243. (Bombay and London: Longmans, Green and Co., Ltd.) 3 rupees.

Geological Survey of Uganda. Memoir No. 2: The Geology of South-West Ankole and adjacent Territories with Special Reference to the Tin Deposits. By A. D. Combe; with an Appendix on the Petrology, by Dr. A. W. Groves. Pp. xiv+236+19 plates. (Entebbe: Government Printer.) 35s.

Ceylon. Part 4: Education, Science and Art (G.). Administration Report of the Marine Biologist for the Year 1931. By Dr. Joseph Pearson. Pp. 11. (Colombo: Government Record Office.) 10 cents.