

To secure the proper integration of the combined research effort in the United States, Mr. Roosevelt has created the Office of Scientific Research and Development as a part of the Office for Emergency Management, and the president of the Carnegie Institution is the director of this Office, and many of the staff are members of its organization. The president points out that the close connexion of the Institution with the defence research effort has led to much closer contact between members of its staff and outstanding scientific men of the country, which should be of great benefit when the full normal programme is renewed.

Despite the preoccupation of most of the staff of the Department of Terrestrial Magnetism with defence research, progress has been made with its fundamental programme, and it is anticipated that the cyclotron will shortly be completed. The studies of the electrical and chemical conditions of the air at great heights are also progressing, as well as the co-ordination of magnetic, solar and upper air studies relating particularly to problems of radio transmission. Further progress in studies on photosynthesis is reported from the Division of Plant Biology, where recent research relating to the chemical mechanism of the photosynthetic process has necessitated revision of the old hypotheses in regard to the chemical interaction involved.

In the development of co-operation between the Department of Genetics and the Long Island Biological Association, a symposium at Cold Spring Harbor on the subject of the gene and the chromosome attracted a large group of scientific workers. Plans for the continuation of such co-operation are being formulated.

In the Nutrition Laboratory progress has been made in the development of instrumental technique and in co-operative studies of carbohydrate metabolism with reference to diabetes.

Interesting results have been obtained in the Geophysical Laboratory with the equipment for studying silicate minerals in the presence of water at high temperatures and pressures, such as prevail deep within the earth. The apparatus used is essentially an electric furnace within a strong closed chamber in which materials can be exposed to the action of steam at pressures of several thousand pounds and at temperatures far above a red heat. Other work has been concerned with the properties of solutions under high pressures.

FORTHCOMING EVENTS

Monday, May 18

ROYAL GEOGRAPHICAL SOCIETY (at Kensington Gore, London, S.W.7), at 5 p.m.—Sir Henry Craw: "The Burma Road".

Tuesday, May 19

IRON AND STEEL INSTITUTE (joint meeting with the Sheffield Society of Engineers and Metallurgists, the Sheffield Metallurgical Association and the Refractories Association of Great Britain) (at the Royal Victoria Station Hotel, Sheffield), at 5.30 p.m.—Discussion on "Open-Hearth Furnace Refractories": (a) "Dolomite Bricks"; (b) "Open-Hearth Roofs, including Temperature Control". (Chairman: Dr. W. H. Hatfield, F.R.S.)

Wednesday, May 20

ROYAL SOCIETY OF ARTS (at John Adam Street, Adelphi, London, W.C.2), at 1.45 p.m.—Prof. H. D. Kay: "The Future of the Milk Industry".

INSTITUTE OF PHYSICS (ELECTRONICS GROUP) (at the Royal Institution, 21 Albemarle Street, London, W.1), at 2.30 p.m.—Discussion on "Amplifiers for Measurement and Control" (to be opened by Mr. C. A. A. Wass).

ROYAL METEOROLOGICAL SOCIETY (joint meeting with the Physical Society) (in the Physics Department of the Imperial College, Imperial Institute Road, London, S.W.7), at 5 p.m.—Discussion on "Emission and Absorption of Radiation in the Atmosphere" (to be opened by Dr. T. G. Cowling).

APPOINTMENTS VACANT

APPLICATIONS are invited for the following appointments on or before the dates mentioned:

JUNIOR ASSISTANT (MALE OR FEMALE) TO THE PUBLIC ANALYST—The Public Analyst, Parker Lane, Burnley (May 20).

HEADMASTER OF THE EASTBOURNE TECHNICAL SCHOOL—The Education Officer, Technical Institute, Eastbourne (May 23).

ASSISTANT LECTURER IN AGRICULTURAL BACTERIOLOGY—The Registrar, The University, Leeds 2 (May 20).

UNIVERSITY CHAIR OF BIOCHEMISTRY tenable at St. Thomas's Hospital Medical School—The Academic Registrar, University of London, Richmond College, Richmond, Surrey (June 8).

INSTRUCTOR IN ELECTRICAL ENGINEERING at the East Ham Technical College—The Secretary for Education, Education Office, Town Hall Annex, Barking Road, East Ham, London, E.8.

SENIOR LABORATORY ASSISTANT—Mr. R. W. Stott, Rugby School Science Laboratory, Barby Road, Rugby.

REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

Great Britain and Ireland

John Innes Horticultural Institution. Thirty-second Annual Report for the Year 1941. Pp. 14. (London: John Innes Horticultural Institution.) [274]

Brompton Hospital Reports: a Collection of Papers recently published from the Hospital. Vol. 10, 1941. Pp. vii+127+29 plates. (London: Brompton Hospital.) 5s. [284]

Carnegie United Kingdom Trust. Twenty-eighth Annual Report, 1941. Pp. 16. (Dunfermline: Carnegie United Kingdom Trust.) [284]

Other Countries

U.S. Department of Agriculture. Miscellaneous Publication No. 439: The Fruitties of the Genus *Anastrepha*. By Alan Stone. Pp. 112+23 plates. (Washington, D.C.: Government Printing Office.) 40 cents. [224]

Imperial Council of Agricultural Research. Miscellaneous Bulletin No. 54: A Further Survey of some Important Breeds of Cattle and Buffaloes in India. By F. Ware. Pp. iii+16+21 plates. (Delhi: Manager of Publications.) 1.4 rupees; 2s. [224]

Forest Research Institute, Dehra Dun. Indian Forest Leaflet No. 10 (Utilisation): A Preliminary Note on the Use of *Prolamis* as Adhesives. By D. Narayanamurti and V. Ranganathan. Pp. ii+4. (Dehra Dun: Forest Research Institute.) [234]

Indian Forest Records (New Series). Botany, Vol. 3, No. 1: The Flora of the Aka Hills. By Dr. K. Biswas. Pp. 62. 2.2 rupees; 6s. 6d. Botany, Vol. 3, No. 4: A Short Account of the Geology and Flora of the Hill Zamindaries in Kalahandi State. By H. F. Mooney. Pp. 131+143+4 plates. 14 annas; 1s. 3d. Botany, Vol. 3, No. 5: New Indian and Burmese Species. By Dr. N. L. Bor. Pp. 144+150+4 plates. 10 annas; 1s. Entomology, Vol. 4, No. 2: A Guide to the Control of Termites for Forest Officers. By C. F. C. Beeson. Pp. 44+80. 1.2 rupees; 1s. 9d. (Delhi: Manager of Publications.) [234]

Forest Bulletin No. 94: Specification for the Inspection and Passing of Helves and Hammer Handles. By V. D. Limaye. Pp. ii+7. 4 annas; 1s. 3d. Forest Bulletin No. 95: Stacking Timber for Air Seasoning. By M. A. Rehman. Pp. ii+9+1 plate. 3 annas; 4d. Forest Bulletin No. 96: Drying of Wood Fuel of *Shorea robusta* (Sal), *Eugenia jambolana* (Jaman), *Machilus duthiei* (Kaula). By M. A. Rehman. Pp. ii+8+1 plate. 4 annas; 5d. Forest Bulletin No. 97: Experiments on the Air-seasoning and Notes on the Passing of Sal Sleepers. By M. A. Rehman. Pp. iv+25. 7 annas; 8d. Forest Bulletin No. 99: Properties, Preparation and Testing of Helve and Tool Handle Timbers. By V. D. Limaye. Pp. ii+13+3 plates. 8 annas; 9d. (Delhi: Manager of Publications.) [234]

U.S. Department of Agriculture. Circular No. 626: Control of the Locust Borer. By Ralph C. Hall. Pp. 20. (Washington, D.C.: Government Printing Office.) 5 cents. [234]

Report and Accounts of the National Botanic Gardens of South Africa, Kirstenbosch, Newlands, Cape (and the Karoo Garden, Whitehill, near Matjiesfontein) for the Year ending 31st December 1941. Pp. 12. (Kirstenbosch: National Botanic Gardens of South Africa.) [244]

U.S. Office of Education: Federal Security Agency. Bulletin 1941, No. 2: Education of Teachers: Selected Bibliography, October 1, 1935, to January 1, 1941. By Benjamin W. Frazier. Pp. vi+60. 10 cents. Bulletin 1941, No. 10: Inter-American Friendship through the Schools. By Prof. Verna A. Carley. Pp. vi+61. 15 cents. (Washington, D.C.: Government Printing Office.) [244]

Pennsylvania State College: School of Agriculture, Agricultural Experiment Station. Bulletin 415: The Minimum Base Value of Heat Production in Animals; a Research in the Energy Metabolism of Cattle. Pp. 26. (State College, Pa.: Pennsylvania State College.) [244]

Bell Telephone Laboratories: a Bell System Company. Pp. 32. (New York: Bell Telephone Laboratories, Inc.) [274]