

In the domestic sphere an improvement in the efficiency of heating apparatus might play a greater part in the conservation of coal than would the development of the rather scanty sources of available water-power. The possibility of using the energy of the condensate from power stations offers good prospects when planned in combination with intensive horticulture on a large scale and industries requiring considerable quantities of process steam.

Prof. Fortescue outlined the facilities and training which in his view should be made available to young men entering upon engineering careers in the post-war years. The school-leaving age will probably be raised to 15 or 16, and four or five years will be needed after that for training in the sciences and for workshop instruction. A further two or three years should be devoted to subject-matter chosen from engineering practice, mathematics applied to engineering problems, industrial economics, works administration or industrial psychology. The student's final award would depend on the work done during the first four or five years and on the presentation of a satisfactory thesis covering the work of the later years; at the conclusion of this, the student should be ready to take his place in productive industry.

Prof. Fortescue makes a plea for the thorough investigation by engineers of the relative advantages of road and rail transport in Great Britain and also in such other spheres as the public health services and agriculture. The necessary researches would need to be conducted on a national scale, possibly by a national research institution or perhaps an extended Department of Scientific and Industrial Research.

Then there will be the urgent and difficult problem of reabsorbing men into industry from the Armed Forces without dislocating the lives of those who have remained in industry. Tentatively it is suggested that all the younger men in industry be gradually drafted into the Forces, after the War, for two or three years of military duty, their places being taken by men of suitable qualifications now in the Forces. By the time the young men from industry have completed these military duties, industry should be in a position gradually to re-absorb them.

Another problem of the immediate post-war period is that of ensuring that all large schemes of industrial replanning are given adequate consideration by our most capable and far-seeing men; during the first few years after the War reconstruction should be limited to that urgently required for those who are without homes as a result of the War.

## FORTHCOMING EVENTS

(Meeting marked with an asterisk is open to the public)

### Saturday, October 17

NUTRITION SOCIETY (at the London School of Hygiene and Tropical Medicine, Keppel Street, London, W.C.1), at 11 a.m. and 2.15 p.m.—Conference on "Trace Elements in relation to Health".

### Sunday, October 18

ASSOCIATION OF SCIENTIFIC WORKERS (SOUTH WALES AREA) (at the Royal Hotel, Cardiff), at 10 a.m.—Conference on "Science for Victory".\*

### Monday, October 19

TERCENTENARY OF THE INVENTION BY BLAISE PASCAL OF THE CALCULATING MACHINE (at the Connaught Rooms, Great Queen Street, London, W.C.2), at 12.30 p.m.: Luncheon; at 3 p.m. to 6 p.m.: Exhibition of Calculating Machines.

### Friday, October 23

INSTITUTION OF MECHANICAL ENGINEERS (at Storey's Gate, St. James's Park, London, S.W.1), at 5.30 p.m.—Presidential Address by Colonel S. J. Thompson: "Boilers—Past and Present".

## APPOINTMENTS VACANT

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

TEACHER OF ENGINEERING DRAWING AND SCIENCE at the Castleford Whitwood Technical College and Junior Technical School—M. G. Swaine, Education Offices, Smawthorne Lane, Castleford, Yorks. (October 20).

RESEARCH ASSISTANT (GRADUATE IN SCIENCE OR AGRICULTURE)—The Secretary, National Institute for Research in Dairying, Shinfield, Reading (October 21).

TEACHER OF GENERAL SCIENCE SUBJECTS in the Junior Technical Department of the Mining and Technical College—The Principal, Technical College, Church Street, Barnsley (October 23).

SECOND TECHNICAL ASSISTANT (MALE)—The Secretary, West of Scotland Agricultural College, 6 Blythswood Square, Glasgow (October 24).

CLINIC PSYCHOLOGIST (WOMAN) at the St. Andrews and Dundee Training Centre—The Director of Studies, Training College, Park Place, Dundee (October 24).

LECTURER (MAN OR WOMAN) IN MATHEMATICS AND PHYSICS—The Principal and Clerk to the Governing Body, Wigan and District Mining and Technical College, Wigan (October 31).

LECTURER IN ENGINEERING SUBJECTS at the Medway Technical College, Senior Departments, Gillingham.—The District Education Officer, Fort Pitt House, Rochester.

## REPORTS and other PUBLICATIONS

(not included in the monthly Books Supplement)

### Great Britain and Ireland

Bibliography on Welding in Aircraft Construction. (B.7.) Pp. 10. (London: Institute of Welding.) [229]

Industrial Practice for Spot Welding Light Alloys. Prepared for the R.52 Sub-Committee on the Spot Welding of Light Alloys by a Panel R.521 on Technique for Spot Welding of Light Alloys. (T.S.) Pp. 12. (London: Institute of Welding.) [229]

British Council Map No. 1: Europe and the Middle East. Scale 1:11,000,000. 30 in. × 24½ in. Printed in six colours. No. 2: The Far East. Scale 1:11,000,000. Outline edition. 30 in. × 24½ in. No. 3: North America to Britain. Scale 1:11,000,000. Outline edition. 30 in. × 24½ in. (London: Royal Geographical Society.) No. 1, flat or folded in cover, 5s.; No. 1, flat, with Nos. 2 and 3 in Outline, 8s. [229]

### Other Countries

Indian Ecological Society. First Annual Report. Pp. 6. (Bombay: Royal Institute of Science.) [229]

Report of the King Institute of Preventive Medicine, Guindy, by Major K. Padmanabha Menon, and Report of the Government Analyst, Madras, by Herbert Hawley. Pp. ii+72. (Madras: Government Press.) 8 annas. [229]

Records of the Geological Survey of India. Vol. 76 (Bulletins of Economic Minerals, No. 6): Indian Precious Stones. By L. A. N. Iyer. Pp. 54+2 plates. (Calcutta: Geological Survey of India.) 1 rupee; 1s. 6d. [229]

Forest Research Institute, Dehra Dun. Indian Forest Leaflet No. 19: A Substitute Wax for Carnauba. By S. V. Puntambekar. Pp. ii+4. (Dehra Dun: Forest Research Institute.) 4 annas; 6d. [229]

Indian Forest Records, New Series. Silviculture, Vol. 4, No. 5: Stump Production in Madras Teak Nurseries. By A. L. Griffith. Pp. iv+225-257+3 plates. (Delhi: Manager of Publications.) 1.8 rupees; 2s. 3d. [229]

Carl Wilhelm Scheele. Manuskript 1756-1777. Ordnade av C. W. Oseen. Ljustyck. Pp. v+182. Manuskript 1756-1777. Tolkning av C. W. Oseen. Pp. vi+173. (Stockholm: K. Svenska Vetenskapsakademien.) [229]

Government of Travancore. Administration Report of the Government Museum, 1116 M.E. Pp. ii+10. (Trivandrum: Government Press.) [229]

Proceedings of the California Academy of Sciences, Fourth Series. Vol. 23, No. 31: Notes on a Collection of Reptiles and Amphibians from Guatemala. 2: Lizards. By Joseph R. Slevin. Pp. 453-462. Vol. 23, No. 32: Notes on a Collection of Reptiles from Boquete, Panama, with the Description of a New Species of Hydromorphous. By Joseph R. Slevin. Pp. 468-480+plates 39-42. Vol. 23, No. 33: Redescription of Three Species of the Polychaetous Family Polynoidea from California. By Tage Skogsberg. Pp. 481-502+plate 43. Vol. 24, No. 1: Contributions toward a Knowledge of the Insect Fauna of Lower California, No. 1: Introductory Account. By A. E. Michelbacher and E. S. Ross. Pp. 20+plates 1-3. Vol. 24, No. 2: Contributions toward a Knowledge of the Insect Fauna of Lower California, No. 2: Coleoptera: Cerambycidae. By E. Gorton Linsley. Pp. 21-96+plates 4-5. Vol. 24, No. 3: Contributions toward a Knowledge of the Insect Fauna of Lower California, No. 3: Coleoptera: Buprestidae. By Prof. Edwin C. Van Dyke. Pp. 97-132+plates 6-7. Vol. 24, No. 4: Contributions toward a Knowledge of the Insect Fauna of Lower California, No. 4: Neuroptera: Myrmeleonidae. By Nathan Banks. Pp. 133-152+plate 8. Vol. 24, No. 5: Contributions toward a Knowledge of the Insect Fauna of Lower California, No. 5: Symphyla. By A. E. Michelbacher. Pp. 153-160+plate 9. Vol. 24, No. 6: Contributions toward a Knowledge of the Insect Fauna of Lower California, No. 6: Diptera: Culicidae. By Thomas H. G. Aitken. Pp. 161-170. (San Francisco: California Academy of Sciences.) [239]