

College, Nottingham). Thorrowgood Scholarships have been awarded to C. R. Smith (London & North Eastern Railway), and E. C. Norris (Southern Railway Company).

Indian Cotton

TECHNOLOGICAL CIRCULARS Nos. 323 to 338 issued by the Indian Central Cotton Committee's Technological Laboratory during the first three months of 1938 exemplify very thoroughly the work which is being done in India to improve the cotton crop of the country. Each season early samples of the crops from different parts of the country are sent to the Laboratory for test and each circular summarizes the results obtained in the last six years. No. 336 deals, for example, with a pure line strain isolated in 1931 and grown at the Government Experimental Farm, Akola, where the rainfall is 28 inches per annum, the soil black cotton soil, the growing period from June until November and the maximum temperature varies from 85° to 115° F.; weight of cotton per seed, 30 milligrams, of seed, 62 mgm. 26 seeds per boll, 16 to 18 bolls per plant; yield, 400-800 lb. per acre; 43 thousand acres under cultivation as against 120 acres in 1933. The average length of fibre (staple) is $\frac{3}{8}$ inch, the curve of deviation being approximately the error curve. In manufacture, the percentage of loss from dirt is low, that from carding is normal, about 8 per cent. Fibre strength was best in 1933 and then suitable for yarn of 31 counts, that is, 31 hanks of 480 yards to the pound.

Butterfly Migrations in the Tropics

THE attention of travellers and residents in the tropics is directed to an attractively produced booklet entitled "Butterfly Migrations in the Tropics", recently published by the British Museum (Natural History). It is written on behalf of the Trustees of the Museum by Dr. C. B. Williams, and is well illustrated by means of five three-colour process plates of typical migrant species. The booklet is issued primarily with the object of obtaining information on the subject of migration. Very little is known relative to this problem in the tropics, and it is easy for any accurate and willing observer to assist in this matter. Instructions are given with regard to the special points upon which information is desired. The booklet may be obtained from the British Museum (Natural History), London, S.W.7, price 9d.

International Grassland Congress

THE report of the fourth International Grassland Congress held in Great Britain in July 1937 under the presidency of Prof. R. G. Stapledon has now been published. The volume, which consists of 486 pages, contains the full texts of all papers, both plenary and sectional, delivered to the Congress at Aberystwyth. Each is printed in English or German with a summary in the alternative language, the main items of the discussion being also included. The report can be obtained from the Joint Secretaries, Fourth International Grassland Congress, Aberyst-

wyth, for £2, post paid. A smaller volume (pp. 87), containing abstracts in English and German of the majority of the papers delivered, is available for 5s. post paid.

Work of the Central Midwives Board

THE report of the Central Midwives Board, recently issued, reviews the work of the Board during the year ended March 31, 1937. The Midwives Roll contained the names of 65,046 women, a net increase of 2,982 on last year's roll. During the year, only 18 midwives were dealt with by the Board under its penal powers on charges of malpraxis, negligence or misconduct, as a result of which seven names were removed from the roll. The Minister of Health approved the revised rules for training and examination, on the preparation of which the Board has been engaged for a considerable time. The two most important changes effected by the new rules are (a) an extension of the period of training from 6 to 12 months for State-registered general trained nurses, and from 12 to 24 months for other pupil-midwives, and (b) division of the course of training into two parts, each of which will be completed by an appropriate examination. An important decision during the year was the permission given to midwives to administer nitrous oxide and air to women in childbirth, under certain conditions.

Congress of Electroradiology

THE fourth annual Congress of French-speaking Electro-Radiologists will be held in Paris on October 5-8. At the opening meeting, Prof. Joliot-Curie will lecture on neutrons and artificial radio-elements—biological applications and therapeutical hypotheses. The following subjects will also be discussed: the results of radiological methods of examination; the bio-electric phenomena of the nervous system, present state of the question and possible application; anti-inflammatory roentgentherapy; biological action of rays and high-frequency currents; progress of histo-radiography; fresh data on neuro-muscular stimulation; interpretation of electro-tropic phenomena. The subscription is 100 francs, which should be sent to Dr. Morel Kahn, 45 rue Scheffer, Paris 16^e. Further information can be obtained from Dr. Delherm, 1 rue Loas Cases, Paris 7^e.

Studentships and Fellowships in Medical Research

THE Medical Research Council invites applications for a third series of studentships and fellowships intended to encourage young British medical graduates towards becoming investigators in those branches of medical science which are concerned directly with disease as it occurs in human beings. Post-graduate studentships are offered for medical graduates who have already held house appointments and are strongly inclined to a career in clinical science or experimental pathology. Each selected student will receive a stipend at the rate of £200 per annum, during a period not exceeding twelve months, for personal maintenance while undertaking approved courses of study in Great Britain such as may be

regarded as best calculated to advance the student's training in methods of research. The Council also offers research fellowships for candidates of similar qualifications who have already had some experience in the use of research methods. Each fellowship will be tenable for one year at the ordinary value of £250 per annum, and will be renewable in approved instances at the rate of £300 per annum for a second year. Further information can be obtained from the Secretary, Medical Research Council, 38 Old Queen Street, London, S.W.1.

French Association of Microbiologists

ON the initiative of Profs. Bordet, director of the Pasteur Institute of Belgium, Martin, director of the Pasteur Institute of Paris, and Lisbonne, of the Montpellier faculty of medicine, an association of French-speaking microbiologists was formed at a meeting held in October 1937. The first meeting of the new association will be held in October next on the occasion of the fiftieth year of the foundation of the Pasteur Institute of Paris, with Prof. Martin as president, and Drs. Lépine of the Pasteur Institute of Paris and Paul Bordet of the Pasteur Institute of Brussels as general secretaries. Further information can be obtained from Dr. Lépine, Institut Pasteur, 25 rue du Docteur Roux, Paris 15^e.

Announcements

CAPTAIN EYSTON in his motor-car *Thunderbolt* broke the world's land speed record on Bonneville Salt Flats, Utah, on August 27. Over the measured mile, the car averaged 345.49 m.p.h. for both ways; the outward run being 347.49 m.p.h., and the return 343.51 m.p.h. The former record, established also by Captain Eyston in 1937, was 311.42 m.p.h. The *Thunderbolt* has two Rolls-Royce engines, each capable of developing up to 2,350 h.p.

DR. T. H. SANDERSON-WELLS has endowed an annual lectureship at the Middlesex Hospital Medical School on the relations between rheumatism and dietetics.

DR. WILHELM A. P. SCHÜFFNER, director of the Department of Tropical Hygiene at the Royal Colonial Institute of Amsterdam, has been awarded the Gold Medal of Honour by the Hanseatic University of Hamburg.

THE College of Physicians of Philadelphia has awarded the Alvarenga Prize to Dr. Richard E. Shope, of the Rockefeller Institute for Medical Research, Princeton, N.J., for his recent researches on the etiology and epidemiology of influenza.

THE twenty-seventh meeting of the Italian Society for the Advancement of Science will be held at Bologna under the presidency of the rector of the University on September 4-11.

THE twenty-fifth French Congress of Hygiene will be held at the Pasteur Institute, Paris, on October

3-8, when the following subjects will be discussed: the plan of the sanitary equipment of France; diet and public health; insurance and public health. Further information can be obtained from the General Secretary, Dr. X. Leclainche, 18 rue de Tilsitt, Paris 17^e.

THE sixth Congress of Physical Re-education organized by the French Society of Specialists in Medical Physical Culture will be held on September 10-12 at the Institute of Physical Education of the University of Paris with Prof. Roussy, rector of the University, as president of honour. It will consist of three sections devoted respectively to science applied to physical education and medical gymnastics, the technique of re-education and social realization. Further information can be obtained from the president of the Society, M. Petat, 11 rue Racine, Montluçon, Allier, France.

THE tenth Congress of the Far Eastern Association of Tropical Medicine, which meets every three years, will be held at Hanoi, Tonkin, on November 24-30, when the following subjects will be discussed: deficiency diseases, water supply, cholera, malaria, plague, tuberculosis, venereal disease, surgery, diseases common to man and animals, parasitology, and materia medica of the Far East. The official languages will be English and French. Further information can be obtained from the Organizing Committee, 6 rue de la Convention, Hanoi.

THE fourth International Conference on Timber Utilization is to be held in Brussels on September 15-17. The subjects to be dealt with include tests on the strength of timber in relation to building regulations, timber and plywood for aeroplanes, ship-building, etc., and modern possibilities of the utilization of sawmill waste, and reports on the activities of the Department for Timber Utilization. Further information relating to the Conference can be obtained from the Secretary, Comité International du Bois, 50 rue Neuve, Brussels, Belgium.

MESSRS. ADLARD AND SON, LTD., have issued a useful diary for the academic year 1938-39, copies of which were presented to members of the British Association attending the recent meeting in Cambridge. It includes, against the appropriate dates, notes of the meetings of learned societies, and there is also a table showing the dates of the terms of the universities of the British Isles.

BRITISH DRUG HOUSES, LTD., have issued a descriptive leaflet dealing with synthetic lactoflavine, which they now manufacture. This substance is phosphorylated after ingestion, and then forms the prosthetic group of Warburg's yellow ferment, which probably plays an essential part in oxidations in all body cells. It cannot be synthesized in the body, and forms one constituent of the complex of substances once known as vitamin B.