

of £3,000 from the Treasury has again been reduced by 10 per cent, and it has only been possible to spend £2,337 on books, the smallest expenditure for seven years. The financial difficulties are the more unfortunate when the work of the Library in tracing out-of-the-way books and acting as a clearing-house for the entire library system of Great Britain and a chief source of all bibliographical information is becoming more widely known and appreciated. The report contains references to the 'outlier libraries'—which now number 149, including those of a number of research associations, the regional library systems, the university libraries, and the foreign libraries—which will probably surprise the average scientific worker in the extent to which they reveal the co-ordination of effort in this field. Moreover, as the regional system grows, the work represented by each book issued by the Central Library continues to increase, as although the number of books issued may decrease the percentage of books difficult to trace and obtain becomes higher. Of particular interest is work on Union Catalogues, and the Union List of Periodicals in the University Libraries has been of the greatest service in locating periodicals. The report also refers to a Union List of Scientific, Technical and Commercial Periodicals in the Public, the University and all the Technical Libraries in Sheffield. A total of 61,187 books was issued by the National Central Libraries and 11,231 by the outlier libraries, which contain 5,846,000 volumes; 2,409 books were lent to university libraries, 1,233 of which were supplied from the Library's own stock.

Thermo-couple Standardisation

THE use of thermocouples for the measurement of temperature has become so customary in industry that the issue by the Bureau of Standards of the United States of a pamphlet of 36 pages by Messrs. W. F. Roeser and H. T. Wensel on the methods of testing them and the materials of which they are constructed will be welcomed by many workers in industry. It is Research Paper 768 of the Bureau, and is issued at the low price of 5 cents. It deals with the best materials to use for a given range of temperature, how to secure that they are pure and how to standardise the couples when constructed. On the whole, the authors prefer a freezing point rather than a boiling point for a standard temperature when each is available, but instructions are given for carrying out standardisations in each way and also for comparisons with working standards of the thermo-couple type. The best methods of interpolating for temperatures between the standard temperatures are also dealt with. Some idea of the accuracy to be expected from observations with various types of thermo-couples over different ranges of temperature is also given.

The World Power Conference

At the annual meeting of the International Executive Council of the World Power Conference, held at the Royal Netherlands Institute of Engineers, The Hague, Sir Harold Hartley, chairman of the British National Committee, was elected by the

Council as its chairman, in succession to the late Mr. D. N. Dunlop, who died on May 30. The choice of Sir Harold is peculiarly appropriate, since as a vice-president of the London Midland and Scottish Railway Company, and director of research of that great transport system, he is in close touch with industrial problems, while as chairman of the Fuel Research Board and a research fellow of Balliol College, Oxford, he is also conversant with the more academic aspects of scientific progress. The Conference owes to Mr. Dunlop, its founder, a happy combination of the practical with the ideal. Under Sir Harold Hartley's guidance it should continue to progress and to play an increasingly influential rôle throughout the world.

Dovedale

MR. ROBERT McDougall, of Manchester, has presented to the National Trust further sections of Dovedale. The dale lies partly in Derbyshire and partly in Staffordshire, and it was recently announced in Parliament that steps were being taken by the local authorities concerned for the planning of the whole area. This announcement was warmly welcomed by the National Trust. Now Mr. McDougall has added to his previous gifts 52 acres in Biggin Dale which joins Wolfscote Dale—as the upper part of the Dove valley is called—on the Derbyshire side some way above the land recently given by Imperial Chemical Industries, Ltd. Biggin Dale is a dry limestone gorge of great beauty. The new property, on its north-western side, consists of steep grass slopes with picturesque scree and some timber and hawthorn bushes, and from it there are arresting views down the Dove valley. There are also fine views across to the Staffordshire side of the Dove valley where the Peasland Rocks stand out boldly. Above the property is Wolfscote Hill (1,272 ft.) which, with its long ridge, is a great landmark in the neighbourhood.

Italian Council of Research

THE recent activities of the Italian National Council of Research, which is directed by the Marchese Marconi, are described in an official publication dealing with investigations which the Council has handed over to the universities, higher teaching centres and experimental stations in Italy. During the years 1933 and 1934, researches were carried out in the problems of nutrition in the laboratories and institutes of physiology and biochemistry at Naples, Padua, Genoa and Rome, as well as investigations on the etiology, epidemiology and prophylaxis of typhoid fever in the institutes of hygiene at Bologna and Genoa.

Toxicity of Industrial Solvents

At the request of the Home Office, the Medical Research Council has undertaken to promote investigation into the question whether various volatile substances might injure the health of workers using them under industrial conditions. The Council has appointed the following special committee to assist and advise in this matter: Sir Joseph Barcroft

(chairman), Mr. J. C. Bridge, Prof. A. J. Clark, Prof. A. G. Green, Prof. J. A. Gunn, Prof. E. H. Kettle, Dr. H. B. Morgan, Mr. J. Davidson Pratt, Mr. D. R. Wilson and Sir David Munro (secretary).

International Office for the Protection of Nature

THE Dutch and French Governments have now officially recognised the International Office for the Protection of Nature at Brussels and have appointed the following delegates to be their representatives on the general council of the Office: *Netherlands and Dutch East Indies*: Dr. P. G. van Tienhoven, president of the Society for Nature Protection in Netherlands; Dr. W. A. J. M. van Waterschoot van der Gracht, chief engineer of mines; Prof. L. Ph. le Cosquino de Bussy, director of the Colonial Institute, Amsterdam; Dr. J. C. Koningsberger, former Minister of Colonies. *France and Colonies*: M. M. Bolle, conservator of forests, Ministry of Agriculture, Paris; Prof. A. Gruvel, general secretary of the National Committee for the Preservation of Fauna and Flora in the Colonies; M. Raoul de Clermont, president of the Section for Nature Protection of the Société Nationale d'Acclimatation de France.

Speleological Research in Great Britain

AT the meeting of representatives of associations interested in the exploration of caves from Yorkshire and Lancashire, Derbyshire and Staffordshire, Somerset and Devon, South Wales and Ireland (see NATURE, July 20, p. 98) held at Derby on July 27, over which Prof. L. S. Palmer (Hull) presided, it was resolved to form a British Speleological Association to serve as a clearing house for the co-ordination of the hydrological, geological, geographical, archæological and biological aspects of cave exploration, and for the dissemination of information relating thereto. In the course of the discussion which preceded the carrying of the resolution, stress was laid on the damage done by promiscuous and uninstructed digging in caves, Mr. A. L. Armstrong (Warrington) in particular urging the need for training before any attempt is made to carry on the work of excavation. The meeting also adopted a proposal that Sir Arthur Keith should be invited to become the first president of the Association.

Awards of the Royal College of Physicians

AT a meeting of the Royal College of Physicians of London held on July 25, the president announced the award of the Baly medal to Dr. F. H. A. Marshall, as a pioneer in the experimental investigation of sexual physiology and the relation of hormones to it; and the award of the Bisset Hawkins medal to Sir George Newman, for his distinguished services to public health, and more particularly for the leading part played by him in the institution of social medical services. Leverhulme scholarships were awarded to Dr. R. L. Noble and Dr. C. C. Ungley; and a grant from the same fund to Dr. Janet Vaughan to continue the work on which she was engaged before relinquishing her scholarship. Dr. E. G. L. Bywaters and Dr. L. C. Bousfield were re-appointed for six months

as Mackenzie Mackinnon scholars. The Murchison scholarship was awarded (by the University of Edinburgh) to W. M. Wilson.

Announcements

THE twelfth International Congress of Zoology will be held at Lisbon in September under the presidency of Prof. Arthur Ricardo Jorge, Jr. Further information can be obtained from the general secretary, Congrès international de Zoologie, Faculté des Sciences, Lisbon.

A CONFERENCE on academic freedom will be held in the University Museum, Oxford, on August 14-15. It will be divided into three sessions, namely: academic and professional freedom; international professional relief; and the utilisation of science. Among the speakers will be Bertrand Russell, G. D. H. Cole, Prof. N. Bentwich, Miss J. Thomas, Prof. H. Levy, L. J. Hodgson. Further information can be obtained from C. R. Morris, Balliol College, Oxford.

THE tenth and eleventh reports of the Committee on Contact Catalysis, Division of Chemistry and Chemical Technology, have been issued together by the National Research Council, Washington. They deal with general aspects of catalysis, activated adsorption, the nature of chemical binding, interchange of energy in molecular collisions, chain reactions and some technical applications of catalysts.

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

A temporary assistant lecturer in applied mathematics in the University of Liverpool—Registrar (Aug. 10).

A biochemist (part-time) for the Pathological Department, Manchester Northern Hospital—The Secretary, J. C. Daniels, 38 Barton Arcade, Manchester (Aug. 10).

A lecturer in botany in the United College, St. Andrews—Secretary and Registrar (Aug. 10).

An assistant (Grade III) and a temporary assistant (Grade II) in the Admiralty Compass Department, Slough—Secretary of the Admiralty (C.E. Branch), London, S.W.1 (Aug. 10).

A veterinary research officer to the Government of Burma—The High Commissioner for India, General Department, India House, Aldwych, London, W.C.2 (Aug. 14).

An assistant lecturer and demonstrator in engineering in University College, Cardiff—The Registrar (Aug. 19).

Two assistant keepers at the Victoria and Albert Museum—Director and Secretary, South Kensington, London, S.W.7, marked "Assistant Keeper" (Aug. 31).

City microbiologist to the Municipal Council, Colombo, Ceylon (candidates to be from the United Kingdom)—Messrs. John Pook and Co., 68 Fenchurch Street, London, E.C.3 (Sept. 30).

A lecturer in geography and mathematics in St. Hild's College, Durham—The Principal.