

have suffered little change since the Polynesian ancestors of the inhabitants first arrived there twenty generations ago. It was also possible to arrange for an intensive study of the disease and general health of the population of one district. Blood samples for filaria tests and blood groups were obtained. On Bellona the party was fortunate enough to obtain cinematograph record of the annual first-fruits ceremony. A medical and health survey was also made on the islands of San Cristobal, Santa Anna and Santa Catalina. As a result of the expedition's work, 3,200 artefacts have been added to the collections of the museum in Honolulu, as well as a large number of entomological and botanical specimens. Other collections are to be distributed among scientific institutions in America and Europe, while the material relating to canoes will be submitted to Dr. A. C. Haddon in Cambridge.

Regulations Concerning Chemicals

ACTS of Parliament and Statutory Rules and Orders affecting the chemical industry are sufficiently numerous and complex to require documentation in a convenient and easily accessible form. That task has been undertaken by the Association of British Chemical Manufacturers, which in January 1931 published an index of such information. The third supplement, covering acts, rules and orders which have come to the notice of the Association during 1933 has recently been issued (Heffer, Cambridge; 6d. post free). New regulations regarding the packing and stowing of dangerous goods in ships have been made, and a revised edition of the summary of the principal regulations made under the Explosives Act has been issued. Reference is made to the Spirits Act, 1880, and the Still Licence Act, 1849. All plant capable of being used as a still is subject to licence, but exemptions are granted in respect of alkali works, coal gas, tar distillation, solvent recovery, chemical experiments, professional chemists, etc. Water stills of more than 1 gallon capacity require a licence; otherwise exemption may be granted on application. The supplementary index also refers, *inter alia*, to the Dyestuffs (Import Regulation) Act, the Import Duties Act, the Ottawa Agreements Act, the Poisons and Pharmacy Act, and the Safeguarding of Industries Act.

Graph Papers

WE have received from Messrs. Wightman Mountain, Ltd., of Artillery House, Victoria Street, Westminster, some samples of graph paper. These are of considerable interest as exhibiting the great range and variety of papers now produced in England. Of squared papers alone, Messrs. Wightman Mountain list more than 250 sizes and styles, some with ruled and others with engraved lines. A wide range of logarithmic papers includes, for example, sheets covering the ranges 7-400 and 1-10,000. Profile paper is specially ruled for making longitudinal sections of railways, roads, etc. Other varieties of graph paper include permille paper (arithmetic probability), square-law, polar, isocandle,

triangular and isometric papers. A new paper is one ruled in tenths of an inch one way and in inches and twelfths the other. The increasing demand for the graphical presentation of commercial data has led to the publication of a number of data sheets, including daily, weekly and monthly progress sheets. Even a holiday chart is not lacking. To furnish some idea of the papers available, the firm is offering for half a crown a special sample packet of 58 different data sheets.

International Agricultural Congress in Budapest

THE International Congress of Agriculture is meeting this year in Budapest on June 13-20. The Congress is held every two years in a different European capital and is attended by delegates from some thirty countries who represent every side of agricultural life. The work of the Congress is divided into eight sections. The first deals with economics and agrarian policy, world prices, the organisation of markets and the economic consequences of mechanisation. Two other sections, those on co-operation and agricultural industries, occupy parts of the same field, and the section dealing with viticulture will this year be economic rather than technical. Two sections treat respectively of animal and vegetable production from the scientific side. Modern horse-breeding, the influence of pasture on the quality of milk, contagious abortion, the production of forage crops under semi-desert conditions, plant selection, the classification of wheats and the improvement of alkaline soils are the principal subjects for discussion at Budapest. The remaining sections are to some extent social in scope, dealing with agricultural instruction and the position of women in rural communities. The Congress will be accompanied by social functions and followed by excursions, which will enable delegates to see something of educational and scientific work in connexion with Hungarian agriculture, as well as of Hungarian farming and peasant life. It is expected that a party of British delegates, connected either with agricultural science or with bodies such as the National Federation of Women's Institutes, will take part. Further information can be obtained from the secretary of the British Corresponding Committee, International Congress of Agriculture, 10 Doughty Street, London, W.C.1.

Announcements

PROF. J. C. McLENNAN will deliver the twenty-fifth Kelvin Lecture before the Institution of Electrical Engineers on April 26, taking as his subject "Electrical Phenomena at Extremely Low Temperatures". Before the lecture, the Faraday Medal of the Institution will be presented to Sir Frank Smith.

DR. C. E. KENNETH MEES, director of research to the Eastman Kodak Co., Rochester, U.S.A., will deliver the Sir Henry Trueman Wood Memorial Lecture before the Royal Society of Arts on May 16. The subject of Dr. Mees's lecture will be "Some Photographic Aspects of Sound Recording".

A DINNER in honour of Prof. Karl Pearson will be held at University College, London, on April 23, when a portrait plaque in bronze of Prof. Pearson will be presented to the College on behalf of subscribers to the Karl Pearson Commemoration Fund. A Brunsviga calculating machine has already been handed over to Prof. Pearson and a duplicate of the plaque will be given to him at the dinner.

THE Gold Medal of the Institution of Mining and Metallurgy, the highest distinction in its power to confer, has been awarded to Mr. John A. Agnew, in recognition of his services in the development of the mineral resources of the Empire, and to the mining industry. The following awards have also been made by the Council of the Institution: The Consolidated Gold Fields of South Africa Ltd. Gold Medal and premium of forty guineas to Dr. W. R. Jones, for his researches on the incidence of silicosis, and for his published papers on the subject; William Frecheville Student's Prize of ten guineas to Mr. D. J. Rogers, for his "Notes on a Tunnel driven at Stan Trg Mine, Yugoslavia"; two grants from the Post-graduate Grants Fund to enable the recipients to pursue their geological studies in Spain.

MR. K. E. TOMS, late assistant superintendent of plantations, East African Agricultural Research Station, Amani, has been appointed by the Secretary of State for the Colonies to be agricultural and forestry officer, St. Helena.

AT the stratosphere conference, which closed in Leningrad a few days ago, it was decided to call a world conference for the study of the stratosphere in the U.S.S.R. in 1936. The time of the conference is to coincide with the eclipse of the sun on June 19 of that year.

THE applications of photography to map-making are steadily widening. The fourth International Congress of Photogrammetry will be held in Paris on November 16–December 2 this year. There will be an exhibition of materials and apparatus relevant to the Congress at the same time. Inquiries should be addressed to M. le President, Commission 2, Congrès International de Photogrammetrie, 4 Rue Galilée, Paris 16 e.

THE Rome correspondent of the *Times* reports that Commendatore Rinato Donati on April 11 at the airport of Montecelio broke the world's altitude record for aeroplanes of any type when he reached a height of 14,500 metres. Signor Donati was flying a specially constructed Caproni 114 h.p. biplane.

AT the meeting of the London Mathematical Society to be held on Thursday, April 26, at 5 p.m. in the rooms of the Royal Astronomical Society, Burlington House, W.1, there will be discussion on "Integral Functions". Prof. E. C. Titchmarsh will introduce the subject, Dr. E. C. Collingwood will speak on "Properties of Exceptional Values of Integral and Meromorphic Functions", Miss M. L. Cartwright on "Directions of Borel of Integral Functions and their Relation to the Singularities of

Power Series", and Prof. J. M. Whittaker on "Difference Properties of Integral and Meromorphic Functions".

WE have received a volume of Abridged Scientific Publications from the Kodak Research Laboratories, vol. 15, 1931–32, published by the Eastman Kodak Company, Rochester, New York. This volume comprises abridgments of 61 papers, most of which are accounts of original researches on subjects related to photography.

THE Ministry of Agriculture has recently issued a portfolio of "Leaflets on Insect Pests of Farm and Garden Crops" which is intended to replace sectional vol. 11 on the same subject. The advantage of the present portfolio over the bound sectional volume is that it enables all new and revised leaflets to be inserted and the portfolio is thus kept up to date. The portfolio of leaflets is obtainable, price 1s. 6d. net, through any bookseller. Readers who wish to receive copies of new or revised leaflets may do so on payment of a nominal registration fee: full particulars of this scheme may be obtained by writing to the Ministry of Agriculture and Fisheries, 10 Whitehall Place, London, S.W.1.

APPLICATIONS are invited for the following appointments, on or before the dates mentioned:—A technical officer (Grade II) in the Directorate of Technical Development, Air Ministry—The Chief Superintendent, Royal Aircraft Establishment, South Farnborough, Hants (April 23). A lecturer in educational psychology at the Maria Grey Training College, Salusbury Road, London, N.W.6—The Principal (April 24). Three male junior assistants (temporary) at the Experimental Research Station, Porton, Wiltshire—The Chief Superintendent, Chemical Defence Research Department, 14, Grosvenor Gardens, S.W.1 (April 28). A demonstrator in biochemistry in the School of Biochemistry, University of Cambridge—Sir F. G. Hopkins, Sir William Dunn Institute, Tennis Court Road, Cambridge (May 2). A temporary technical assistant in farm economics in the Department of Agriculture for Scotland—The Establishment Officer, Queen Street, Edinburgh, 2 (May 5). An assistant master to teach mathematics, mechanics and physics at the Polytechnic, Regent Street, London, W.1—The Director of Education (May 7). An assistant lecturer in botany at the University of Manchester—The Registrar (May 7). A chief inspector of explosives in India—The High Commissioner for India, General Department, India House, Aldwych, London, W.C.2 (May 10). An assistant lecturer in zoology at the University of Bristol—The Registrar (May 11). A lecturer in zoology at Bedford College for Women, Regent's Park, N.W.1—The Secretary (May 22). A fuel technologist in the Public Service Board of New South Wales—The Official Representative of the Government of New South Wales, Wellington House, 125, Strand, London, W.C.2 (May 31). A member of the vocational guidance staff at the National Institute of Industrial Psychology, Aldwych House, London, W.C.2—The Secretary.