

of northern Scotland. But unfortunately we do not really know why these latter were made, either.

### Making and Measuring Gauges

DURING the Second World War a booklet dealing with the making and measuring of gauges was prepared by the staff of the National Physical Laboratory, Teddington, as a war-time aid to firms who were entering the field of gauge-making for the first time, and a new and revised edition of this booklet has now been issued as No. 5 in the series of "Notes on Applied Science" under the title of "Gauge Making and Measuring" (pp. 79+1 plate. London: H.M.S.O., 1954; 3s. net). The Notes touch upon both the manufacture and measurement of gauges and, in addition, include descriptions of measuring equipment suitable for this class of work. Only the simpler types of plain and form gauges are considered, as screw gauges are adequately dealt with in No. 1 of the series. Much information which should be already familiar to experienced gauge-makers is included; but several novel topics are also discussed. The contents consist of four parts. Part 1, which is of a general and introductory nature, refers to the general requirements of gauges as to marking, dimensions, hardness and finish in accordance with British Standard specifications. The serious errors that can arise in the measurement of gauges as a result of thermal expansion are particularly emphasized. Part 2 deals with the selection of suitable steel for gauges and with the detailed techniques for machining, hardening, stabilizing and grinding the blanks, and with other workshop methods, some novel, involved in gauge-making. Parts 3 and 4 are devoted to measuring apparatus commonly used in gauge-making and describe bench micrometers, vertical comparators and using light in measurement. "Gauge Making and Measuring" is a valuable addition to the literature on metrology and should be of particular assistance not only to gauge-makers but also as a text-book for students who are studying metrology as a subject in the National Certificate Examinations.

### Chemical Abstracts: New Greek Journal

THE Centre of Bibliographical Investigation in Athens has begun to publish a monthly abstract journal, *Chemical Research*, dealing with pure and applied chemistry. This contains abstracts in Greek of papers published in journals of all countries; but there is an appendix, which in the copy received is in English, French and Italian, of abstracts of papers published in Greece. This appendix will serve to direct attention to publications of Greek chemists, and, since one of the abstracts is of a doctoral thesis of the University of Athens, it is likely to refer to publications which could otherwise be missed. The journal is published from 44 Charocopou Street, Kallithea, Athens.

### Earthquakes during May-September 1954

FORTY-SEVEN earthquakes having instrumental magnitude 6 or greater occurred during May-September 1954. The greatest (magnitude  $7\frac{1}{4}$ ) occurred on September 17 in the region of the Fiji Islands. The earthquake with the deepest focus (600 km.) also occurred in the Fiji Islands region on September 15. Earthquakes were reported as having occurred in Europe as follows: Greece and adjacent countries (5), Switzerland (7), Spain (5), Jan Mayen Island (3), Germany (1), Belgium (1) and Norway (1).

### Textile Institute: Medal Awards

THE following awards have been announced by the Textile Institute: the Institute Medal, awarded for distinguished services to the textile industry in general and to the Institute in particular, to Mr. W. Crossley, managing director of the Yorkshire Dyeing and Proofing Company, Ltd., Middleton, Lancs; and to Dr. P. W. Cunliffe, research manager of the British Cotton and Wool Dyers' Association, Ltd.; the Institute Service Medal, awarded in recognition of valuable services to the Textile Institute, to Mr. E. J. D. Poole, senior principal technical officer of the Wool Industries Research Association; Mr. L. Morris, textile chemist with Allied Colloids (Manufacturing) Co., Ltd.; and Mr. J. R. S. Goodall, of Stockport.

### N.Z. National Research Fellowships (1955)

THE Minister of Scientific and Industrial Research, New Zealand, has awarded the four National Research Fellowships to be taken up during 1955 as follows: Dr. H. C. Clark, junior lecturer in the Chemistry Department, Auckland University College, who will carry out research at the University of Cambridge; Mr. H. V. Brewerton, a chemist at the Dominion Laboratory (N.Z. Department of Scientific and Industrial Research) at Wellington, who will work on the chemistry of the extractives of New Zealand timbers at the University of Nottingham; Mr. P. H. Fitzgerald, a plant breeder at the Crop Research Division of the N.Z. Department of Scientific and Industrial Research, who will work in the Genetics Department, University of Adelaide; Mr. J. D. Lovis, of the Department of Botany, University of Leeds, who will work in Canterbury University College. These Fellowships are offered annually to suitable applicants with postgraduate experience in scientific research to enable them to study at New Zealand or overseas institutions. Each Fellowship has a value of £600 a year, an additional £100 a year being paid to a married man. Grants of up to £50 for books, fees, etc., and up to £150 for travel are also paid. The tenure of a Fellowship is for one year with provision for an extension by a further year where such extension is justified.

### Conference on Mass Spectrometry

THE Third Annual Conference on Mass Spectrometry under the sponsorship of Committee E-14 of the American Society for Testing Materials will be held during May 23-27 at the Mark Hopkins Hotel in San Francisco, California. All aspects of the theory and application of mass spectrometry will be covered. Titles of papers should be submitted by February 15 to Mr. William Priestley, jun., Standard Oil Development Co., Box 121, Linden, New Jersey. There will also be an exhibit of mass spectrometry equipment, information about which can be obtained from Dr. J. G. Hutton, General Electric Co., 1 River Road, Schenectady, New York.

### Colonial Service: Recent Appointments

THE following appointments have recently been made in the Colonial Service: J. S. Blacklock (agricultural officer, Sarawak), agricultural officer, Northern Rhodesia; L. H. Brown (agricultural officer, Kenya), provincial agricultural officer, Kenya; T. N. Greeves (senior agricultural officer, Northern Region, Nigeria), deputy director of agriculture, Sierra Leone; N. M. Lucie Smith (assistant director of agriculture, Gold Coast), director of agriculture,