was used for all exterior walls and ceiling, and also between double partitions around the recording and seismometer rooms. As a protection against humidity, a four-ply waterproofing membrane was applied over the entire floor surface after the pouring of the concrete base slab. The windows between the recording room and the observation room and those between the seismometer room and the office are composed of two panes of plate glass \frac{1}{3}\cdot \text{in.} thick, hermetically sealed with metal to glass bond and separated by a dehydrated air space \frac{1}{3}\cdot \text{in.} thick.

The seismic equipment consists of two Sprengnether horizontal-component long-period seismometers, a Sprengnether vertical-component short-period seismometer, and a triple drum. The station is further equipped with an air-conditioning apparatus, an electrically driven pendulum clock manufactured by the Standard Time Clock Co. and a Hallicrafter SX-42 radio receiver for the reception of time signals.

The station is built on the left bank of an old river-bed formerly used by the Magdalena River, and the seismic piers rest on hard reddish clay of probable Oligocene Age. Numerous mud volcanoes varying in size from several cm. to fifteen m. in height abound to the south-east of the station. Many of them are still active, especially Totumo Volcano, which is the largest and erupts twice daily. Off the shore and west of the seismic station there is a 'sunken peninsula' four or five km. in length, and according to many reliable authors this peninsula disappeared in October 1848. It was formed by sands and errant debris carried down by the Magdalena River into the ocean; in turn these objects drifted along the shore and clustered around several mud volcanoes scattered about in the sea not far off the coast of Galerazamba.

It is hoped that this new station at Galerazamba, working in conjunction with those at Bogotá and Chinchiná, will aid in localizing more accurately epicentres of Colombian earthquakes. Furthermore, this station will contribute valuable data to the solution of many international earth problems and give added incentive to the study of the eruptions of the nearby mud volcanoes and of the highly folded and faulted territory of Galerazamba. Finally, because of its strategic position, the Galerazamba station will also be utilized as a corner of a possible tripartite station for the purpose of recording microseisms caused by Caribbean hurricanes.

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In recent years, libraries and information organisations have tried to help men of science by supplying photocopies of papers reporting original work. However, except in special circumstances, permission to copy must be obtained from the copyright owner in every case, and this causes much tedious correspondence and delays.

Following a recommendation from its Scientific Information Conference, the Royal Society has considered, therefore, what action is needed to make it easier for men of science to obtain for the purpose of private study copies of papers in journals when these are not readily available by purchase or loan. As a result, the Council has made a Declaration stating that it will regard certain copying from its

own publications as "Fair Dealing", and it invited other societies and publishers in Great Britain to subscribe to the Declaration. More than seventy have already done so. The full list can be obtained from the Royal Society.

The Declaration does not give permission to use published material in any way desired, and, in particular, it does not in any way apply to books and other non-periodic publications. It applies only to making, without profit and within stated conditions, a single copy; it does not give permission to use such a copy for any subsequent reproduction by any means; and it does not include permission to quote or reprint a whole or part of the work either in the

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It is not the intention of the Declaration to foster the substitution of copying for the purchase of journals. It is recognized that publishers of journals make a valuable contribution to the advancement of science by the dissemination of new knowledge, and that their interests must be safeguarded. The Declaration has been made for an experimental period of two years, and if a disproportionate volume of copying results, societies and publishers, in the interests of science generally, may be compelled to withdraw it.

Men of science and librariars are specially reminded that many publishers have available back numbers of journals and separates of papers, and publishers have made the Declaration on the assumption that all reasonable attempts to obtain an original will be made before making a copy.

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be copied.

"We reserve the right to withdraw this declaration."

APPOINTMENTS VACANT

APPLICATIONS are fixted for the following appointments on or before the dates measured:

ASSISTANT ANALYSTS (2) in the County Analyst's Laboratory—The County Medical Officer of Health, County Offices, Preston, endorsed 'Assistant Analyst' (August 20).

LECTIBER IN THE DEPARTMENT OF METALLURGY of the County Technical College, Wednesbury—The Director of Education (Dept. F.E.), Gonty Education Offices, Stafford (August 20).

TECHNICIAN IN THE DEPARTMENT OF CHEMICAL PATHOLOGY—The Professor of Chemical Pathology, King's College Hospital Medical School, Denmark Hill, London, S.E.5 (August 20).

EXPERIMENTAL OFFICERS as (a) Organic Chemists (Ref. F. 497/49A), (b) Chemical Engineers (Ref. F. 496/49A), and (c) Instrument Engineer (Ref. D. 258/49A), at Ministry of Supply Research and Development Establishment in Lancashire—The Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting the appropriate Ref. No. (August 22).

FORESTRY INSPECTOR in the Ministry of Agriculture for Northern Ireland—The Secretary, Civil Service Commission, Stormont, Belfast (August 23).

(August 23).

Lecturer in Chemical Engineering—The Registrar, The Univer-

LECTURER IN CHEMICAL ENGINEERING—The Registrar, The University, Leeds, 2 (August 27).

SENIOR SCIENTIFIC OFFICER (Ref. C.473/49A), for work including design of tunnel air circuits, particularly assessment of characteristics of fans and compressors, and Senior Scientific Officers and Scientific Officers (Ref. C.474/49A), for work including design of supersonic nozzles and other parts of tunnel air circuits, at the Royal Aircraft Establishment, Farnborough—The Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting appropriate Ref. No. (August 27).

BACTERIOLOGIST IN THE DEPARTMENT OF MEDICINE—The Registrar.

Aircraft Establishment, Farndofough—The Technical and Schemal Register (K), York House, Kingsway, London, W.C.2, quoting appropriate Ref. No. (August 27).

Bacteriologist in the Department of Medicine—The Registrar, The University, Sheffield (August 27).

Lecturer in Electrical Engineering—The Registrar, The University, Leeds, 2 (August 29).

Principal of the Farm Institute to be established on an estate near Norwich—The Chief Education Officer, County Education Offices, Stracey Road, Norwich (August 29).

Hydro Power Station Design Engineer to the State Electricity Commission of Victoria—The Agent-General for Victoria, Victoria House, Melbourne Place, Strand, London, W.C.2 (August 30).

Editor of Assistant Editor for the Journal of the Society—The General Secretary, Society of Chemical Industry, 56 Victoria Street, London, S.W.1 (August 31).

Organic Chemist for Fruit Products Investigations at Long Ashton Research Station—The Secretary and Registrar, The University, Bristol (August 31).

Scientists (Grade III), at the London headquarters (one with a university honours degree in physics or mathematics, and the other with a university honours degree in chemistry or the equivalent)—The National Coal Board, Establishments (General) Branch, Hobart House, Grosvenor Place, London, S.W.1, endorsed Ti/155 (August 31).

Scientist (Grade II) (Ref. Ti/156), and a Scientist (Grade III) (Ref. Ti/157), on the headquarters staff of the Coal Survey organisation—The National Coal Board, Establishments (General) Branch, Hobart House, Grosvenor Place, London, S.W.1, quoting the appropriate Ref. No. (August 31).

Research Assistant (Biochemist) in the Department of Anæsthetics—The Registrar, The University, Leeds, 2 (August 31).

Assistant Curator (male) for the Botany Department of the Natural History Museum—The Town Clerk, The Guidhall, Nottingham (August 31).

History Museum—The Town Cierk, The Gundhan, Novangaland (August 31).

Lecturer in Chemistry, with special qualifications in Organic Chemistry—The Secretary, The University, Birmingham 3 (August 31).

RESEARCH ASSISTANTS (6, Grade II) in the Victoria and Albert Museum—The Secretary, Civil Service Commission, 6 Burlington Gardens, London, W.1, quoting No. 2716 (August 31).

PRINCIPAL SCIENTIFIC OFFICER and SENIOR SCIENTIFIC OFFICER (preferably with experience in optics and small electrical and mechanical devices) for research and development work on photography from high speed aircraft and on air survey photography, and a SCIENTIFIC OFFICER (preferably having bias to mathematics and knowledge of aerodynamics) for work on automatic pilots and blind landing, at the Royal Aircraft Establishment, Farnborough—The Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting A.43/49A (August 31).

LECTURER (MALE) IN DAIRYING, a RESEARCH ASSISTANT IN THE MILK UTILIZATION DEPARTMENT, and a TECHNICAL ASSISTANT IN THEMILK UTILIZATION DEPARTMENT, and a TECHNICAL ASSISTANT IN College, 6 Blythswood Square, Glasgow, C.2 (September 1).

LECTURER IN THE DEPARTMENT OF ELECTRICAL ENGINEERING (Electronics), and an ASSISTANT LECTURER IN VETERINARY BACTERIOLOGY—The Registrar, The University, Liverpool (September 3).

3).

LECTURER and an ASSISTANT LECTURER IN THE DEPARTMENT OF MATHEMATICS at University College, Ibadan, Nigeria—The Secretary, Inter-University Council for Higher Education in the Colonies, 8 Park Street, London, W.I. (September 15).

FIRE RESEARCH OFFICER in the New Zealand Department of Scientific and Industrial Research—The Office of the High Commissioner for New Zealand, 415 Strand, London, W.C.2 (September 15)

missioner for New Zealand, 415 Strand, London, W.C.1 (15).

LECTURER or ASSISTANT LECTURER IN CHEMISTRY at the University College of the West Indies—The Secretary, Inter-University Council for Higher Education in the Colonies, 8 Park Street, London, W. (September 30).

SENIOR LECTURER and LECTURER IN PSYCHOLOGY, and a SENIOR LECTURER and a JUNIOR LECTURER IN PHILOSOPHY, at the Victoria University College, Wellington, New Zealand—The Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1 (September 30).

PROFESSOR OF PHYSIOLOGY in the University of the Witwatersrand, Johannesburg—The Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1 (September 30).

30).

LECTURER IN ZOOLOGY in the University College of the Gold Coast

—The Secretary, Inter-University Council, 8 Park Street, London,
W.1 (September 30).

TECHNICIAN IN THE DEPARTMENT OF PHYSIOLOGY-The Secretary TECHNICIAN IN THE DEPARTMENT OF PHYSIOLOGY—The Secretary, University College, Gower Street, London, W.C.1, quoting Physiology/1. LECTURER IN THE DEPARTMENT OF PHYSICS—The Principal, Technical College, Queen Street South, Huddersfield.

SENIOR LECTURER IN MECHANICAL ENGINEERING, and a LECTURER IN MECHANICAL ENGINEERING—The Clerk and Treasurer, Dundee Technical College, Dundee.

ASSISTANT OF ASSOCIATE PROFESSORSHIPS OF BIOCHEMISTRY AND OF GENERAL AND ANALYTICAL CHEMISTRY—The Secretary, Department of Chemistry, University of British Columbia, Vancouver, B.C., Canada.

OF GENERAL AND ANALYTICAL CHEMISTRY—The Secretary, Department of Chemistry, University of British Columbia, Vancouver, B.C., Canada.

GLASS BLOWER, with knowledge of vacuum technique, for research in physics—Prof. K. G. Emeleus, Queen's University, Belfast.

PRINCIPAL MEDICAL OFFICER (Research) (bacteriologist with good experience of original research), a PRINCIPAL SCIENTIFIC OFFICER (biochemist with good honours degree and good experience of original research with special knowledge of bacterial chemistry), MEDICAL OFFICERS (Research) (bacteriologists or experimental pathologists with experience of original research), SENIOR SCIENTIFIC OFFICERS (bacteriologists with experience of original research), SENIOR SCIENTIFIC OFFICERS (biochemists with good honours degree and research experience in bacterial chemistry), and Experimental Dofficers (highly skilled in experimental bacteriology) in a Ministry of Supply Research Establishment in Southern England—The Secretary, Civil Service Commission, Scientific Branch, 27 Grosvenor Square, London, W.1, quoting No. 2729.

GAS ANALYST—The Assistant Secretary, British Coal Utilization Research Association, Randalls Road, Leatherhead, Surrey.

TECHNICIANS (2) to take charge of animals in the Department of Physiology and Biochemistry—The Secretary of the University Court, The University, Glasgow, W.2.

LECTIRER IN BIOLOGY (mainly to teach Zoology up to the standard of the Special Degree of London University)—The Registrar, Municipal College, Portsmouth.

LECTURER IN MICROBIOLOGY at the Massey Agricultural College, Palmerston North—The High Commissioner for New Zealand, 415 Strand, London, W.C.2.

RESEARCH ASSISTANT (honours graduate in chemistry) in the Department of Physics, for work on the properties and structure of proteins—The Secretary, University College, Dundee.

HYDRAULICS ENGINEERS (2) in the Public Works Department, Gold Coast—The Director of Recruitment, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1.

OLREGIECTOR of Research Station and Dem

LONGOI, S.W.I.

SOCIAL SCIENTIST (male), to join a team engaged on research on the communication and practical application of industrial sociological developments—The Secretary, Tavistock Institute of Human Relations, 2 Beaumont Street, London, W.I.

CHIEF LABORATORY TECHNICIAN—The Secretary, Stafford Hospital Management Committee, 13 Foregate Street, Stafford.