

Division of Plant Pathology at the Institute of Malaya, and of Professor Hans Reck, the distinguished German volcanologist.

THE bicentenary of the birth of Galvani will be celebrated at the University of Bologna on October 18.

The British Medical Journal reports that a memorial to William and John Hunter was unveiled in East Kilbride Public Park on July 28 by Sir Hector J. W.

Hetherington, principal of the University of Glasgow. It bears a relief symbolic carving with the inscription: "To the memory of William Hunter, M.D., F.R.S., 1718-1783, and John Hunter, F.R.S., 1728-1793. They were born at Long Calderwood, and died in London after attaining the highest eminence in the sciences of medicine and biology. Their names will be held in reverent remembrance by a grateful posterity to all generations."

SCIENTIFIC EVENTS

THE SILVER JUBILEE OF THE INDIAN SCIENCE CONGRESS ASSOCIATION

Nature gives an account of the twenty-fifth annual session of the Indian Science Congress Association, which will be held in Calcutta from January 3 to 9, under the presidency of the Right Hon. Lord Rutherford. To mark the silver jubilee of the association, the meeting is to be a joint session with the British Association. About a hundred men of science have been invited from Great Britain, while invitations have also been extended to a number of scientific workers in other countries. The congress will be divided into the following sections under the presidents named: (1) Mathematics and Physics, Dr. C. W. B. Normand, director-general of observatories, Meteorological Office, Poona 5; (2) Chemistry, Professor S. S. Bhatnagar, director, University Chemical Laboratories, Lahore; (3) Geology, D. N. Wadia, officiating superintending geologist, Geological Survey of India, Calcutta; (4) Geography and Geodesy, Dr. A. M. Heron, director, Geological Survey of India, Calcutta; (5) Botany, Professor B. Sahni, professor of botany, University of Lucknow; (6) Zoology, Professor G. Matthai, professor of zoology, Government College, Lahore; (7) Entomology, M. Afzal Husain, principal, Punjab Agricultural College, Lyallpur, Punjab; (8) Anthropology, Dr. B. S. Guha, Zoological Survey of India, Indian Museum, Calcutta; (9) Agriculture, Rao Bahadur T. S. Venkatraman, Imperial sugarcane expert, Lawley Road, Coimbatore; (10) Medical Research, Sir Upendranath Brahmachari, professor of tropical medicine, Carmichael Medical College, Calcutta, and honorary professor of bio-chemistry, University of Calcutta; (11) Veterinary Research, Sir Arthur Oliver, animal husbandry expert, Imperial Council of Agricultural Research, New Delhi; (12) Physiology, Colonel R. N. Chopra, officiating director and professor of pharmacology, School of Tropical Medicine, Calcutta; (13) Psychology, Dr. G. Bose, University College of Science, Calcutta. The main part of the British Association delegation will arrive at Bombay on December 16, and will tour Northern India before attending the congress. The address of

the General Secretary of the Indian Science Congress Association is c/o The Geological Survey of India, 27 Chowringhee, Calcutta.

RELIEF MAP OF THE ROCKY MOUNTAINS AND PACIFIC COAST STATES

A LARGE accurate scale relief map, costing more than a million dollars, is planned as one of the attractions of the 1939 Golden Gate International Exposition on San Francisco Bay.

It is expected that this map, measuring 100 by 150 feet, will occupy the court of the Hall of the Western States. Built on a scale of one inch to the mile with a $2\frac{1}{2}$ -to-3 exaggeration of contours, the map will depict every depression and elevation in the Rocky Mountains and Pacific Coast States, an area of 1,189,141 square miles.

The proposed map promises to be of invaluable aid to agricultural, lumber, oil, mining, power interests and to business in general. Various stands of timber throughout the west will be indicated by different shades of green, while other colors will be used to differentiate farming, grazing areas and barren land. Watersheds, drainage, hydro-electric projects and highways will also be shown. Undoubtedly the map will prove a definite aid in fire-fighting, forest conservation, crop, pest and soil erosion control, mineral surveys and in engineering new roads through mountainous regions.

This project is the outgrowth of work now being carried on by the U. S. Forest Service, which has completed many individual sections of the western forest area. Fifty-foot contours are built up by tracing projection lines and cutting them out of chipboard by electric machines. The chipboard map is then shelacked and covered with molding clay for casting.

Although a map of such proportions will prove a spectacular attraction at the exposition, the real justification for such a project will come from its value to many state and government agencies which will be able to procure duplicate casts of the original at relatively small expense. By painting and decorative treatment, each department using a replica will be able to emphasize the scope of its interest by the indi-

cation of highways, forests, rivers, minerals or other data.

This project, sponsored by the California Department of Natural Resources and approved by several government agencies, is now awaiting final authorization from Washington. The first unit of the complete western states map, the California section, is already two thirds completed. Started by the U. S. Forest Service under the direction of H. A. Siedelmeyer, the work is now being carried on by the WPA. Approximately a hundred men are engaged on this section, which has been under construction for the last two years.

If the project is enlarged under federal direction to include the eleven Western States, Mr. Siedelmeyer will be lent by the U. S. Forest Service to take charge of this work.

THE SIXTEENTH EXPOSITION OF CHEMICAL INDUSTRIES

THE sixteenth Exposition of Chemical Industries will be held at the Grand Central Palace, New York City, from December 6 to 11. In addition to the many exhibits of chemicals and chemical products, there will be displays of plant equipment and chemical process machinery of advanced design. Purity and uniformity of product, low cost production and efficiency in the handling of materials will be emphasized and modern methods for meeting the needs of the unit process industries of chemical engineering will be demonstrated.

The exhibits will include general plant equipment and machinery in terms of unit processes of chemical engineering. High vacuum pumps, liquid pumps, compressors and blowers for the chemical industry will be exhibited in the plant equipment section. Bottling equipment will be supplemented by mixing and storage tanks, pumps, filters, mixers, labelers and cappers.

Instruments of precision which safeguard the operation and control of all chemical engineering processes will constitute an important section. Indicating and controlling instruments will include those for temperature, pressure, humidity and the flow of fluids. Other instruments to be displayed are portable and wall-type indicating pyrometers, resistance thermometers, pyrometer controllers, direct reading air velocity meters, industrial thermometers, oil testing instruments, chemical thermometers and hydrometers.

The rôle of metals and alloys in chemical engineering construction and in the processes of industrial chemistry will be represented by comprehensive exhibits of steel and corrosion-resistant alloys, likewise by the non-ferrous metals such as copper, brass and bronze. For those interested in the fabrication of

chemical plant equipment there will be an exhibit to demonstrate the weldability of stainless steels. Other items in the metals section will include tubing for a variety of chemical plant installations, woven wire fabrics, wire rope, cable. Tubing, couplings and valves, in brass, aluminum alloy, steel and nickel will be shown in all sizes for process operations over the complete range of pressure and temperature conditions.

Materials handling equipment will demonstrate the labor-saving features and space-saving advantages attainable in modern warehousing. With the latest equipment, which will be on display, unnecessary handling and rehandling, piling and repiling is eliminated.

ROCKEFELLER TRAVELING FELLOWSHIPS

THE British Medical Research Council has awarded Rockefeller fellowships to the following for the academic year 1937-38:

Dermid Lockhart Cameron Bingham, clinical tutor, Surgical Out-patient Department, Royal Infirmary, Edinburgh.

Eric George Laphorne Bywaters, assistant clinical pathologist, Middlesex Hospital.

Philip Rainsford Evans, registrar, Medical Diseases of Children, King's College Hospital, London.

John George Selater, tutor in clinical medicine, Royal Infirmary, Edinburgh.

Eric Frank Scowen, assistant director, Medical Professorial Unit, St. Bartholomew's Hospital, London.

Charles Herbert Stuart-Harris, Sir Henry Royce research fellow in influenza, London.

Graham William Hayward, resident medical officer, National Hospital for Diseases of the Heart, London.

All the fellows propose to work at centers in the United States. Dr. Stuart-Harris and Dr. Hayward will hold their fellowships under modified conditions, while receiving emoluments from other sources.

In addition, the Rockefeller Foundation has awarded fellowships, on the recommendation of the Medical Research Council, to the following candidates in the special field of psychiatry, neurology and related subjects:

Edward William Anderson, medical director, Cassel Hospital, Penshurst.

Alexander Kennedy, assistant medical officer, Maudsley Hospital, London.

Alan Sutcliffe Kerr, surgical registrar, Royal Infirmary, Liverpool.

Denis John Williams, resident medical officer, Hospital for Nervous Diseases, Maida Vale, London.

Alexander Francis Rawdon-Smith, senior student, Royal Commissioners for the Exhibition of 1851, working