

GRANTS TO FORENSIC SCIENTISTS

Grants have been awarded to two members of the Department of National Health and Welfare to attend a world gathering of forensic scientists in London, England, April 16-24. Dr. C.G. Farmilo of the Food and Drug Directorate and J.L. Monkman of the Occupational Health Laboratory will participate in the Third International Meeting of Forensic Immunology, Medicine, Pathology and Toxicology, on grants administered by the American Academy of Forensic Sciences.

Dr. Farmilo, head of the organic chemistry laboratory and an authority on the identification of narcotics, will give a paper on marihuana, and will appear on a panel discussing chemical problems associated with narcotic addiction. Mr. Monkman will speak on research carried on in his laboratory on arsenic and fluoride in biological materials.

A REVOLUTIONARY INVENTION

A Canadian invention manufactured in Italy will be the subject of an international scientific conference at the National Research Council in Ottawa from April 1 to 4. The *analytical plotter*, a new system applied to aerial surveying and mapping, is considered to be the most revolutionary development in the science of photogrammetry since the first plotters were built early this century. Twenty-five, in a very elaborate version for defence purposes, have been ordered by the United States Government at a unit price of about \$250,000. The first instruments, delivered about a year ago, are living up to every expectation. A much simpler version for civilian use is now being produced at prices competitive with traditional plotters of infinitely less versatility.

WHAT NEW INVENTION MEANS

The new plotter, invented by U.V. Helava of the National Research Council, substitutes mathematical projection for mechanical projection, eliminating the mechanical shortcomings of previous equipment and permitting more reliable measurement and greater efficiency. The analytical plotter extends the range of photogrammetry. For example, it is the only device which can use photographs taken from orbiting satellites for photogrammetric information. Scientists regard this invention as one which moves the science of photogrammetry from the "Bicycle Age" to the "Jet Age". The analytical plotter is not just a new piece of equipment, but represents an entirely new approach to the problems of photogrammetry. It consists of three fundamental parts - an optical-mechanical part of greater simplicity than plotting devices now in general use, a small special-purpose computer, and a plotting table.

NO CANADIAN BUYER

It is manufactured by the Nistri Company of Milan, Italy (Ottico Meccanica Italiani). Efforts of Canadian Patents and Development Limited to find a manufacturer in Canada were unsuccessful and, encouraged by the Mayor of Milan, Professor Gino

Cassinis, Past President of the University of Milan and a scientist of international reputation, the Nistri Company applied for and was granted a license to manufacture the plotter. Professor Cassinis will attend the Ottawa conference, as will the company president, Dr. Rafaelo Nistri. Development work was financed by the United States Air Force, which already has the system in operation. One of the first American experts to recognize the importance of the plotter was Anthony F. DiPentima of the Rome-New York Air Development Center, USAF, who also will attend the conference.

SHAKESPEARE SEMINAR SPEAKERS

Leading Shakespearean authorities from three countries will visit Stratford this summer to take part in the 1963 Shakespeare Seminars to be held from August 4 to 17. Dr. B.W. Jackson, seminar director, has announced that G. Wilson Knight, Emeritus Professor of English Literature at the University of Leeds, Harry Levin, Irving Babbitt, Professor of Comparative Literature at Harvard University, and Clifford Leech, Professor of English at the University of Toronto, will be among the speakers to take part in the lectures and discussions sponsored by the Canadian universities and the Stratford Festival. Also on the roster of participants are: John Bayley, Fellow of New College, Oxford; W. Moelwyn Merchant, Professor of English Literature, University of Exeter; John Crow, Reader of English Literature, King's College, University of London; Arnold Edinborough, Associate Professor of English, University of British Columbia; John Pettigrew, Registrar and Assistant Professor of English, Trent University; R.F. McDonnell, Ohio University; Michael Langham, artistic director of the Stratford Festival, and Eric Christmas, a leading member of the Festival Company.

"Though sponsored by universities and organized by the Extension Department of McMaster University, the Shakespeare Seminars are not courses for college credit" Dr. Jackson pointed out. "They are intended for the Festival visitor who carries a book as well as a camera. They are designed for all those who wish to deepen their appreciation of Shakespeare's plays by discussion and informal study."

INDUSTRIAL PRODUCTION

The seasonally-adjusted index of industrial production for January (1949=100) was 189.3, unchanged from the revised figure for December and virtually unchanged since August last year. With both manufacturing and mining lower in January, the total index was held up by a gain or more than 4 per cent in electric-power and gas utilities.

Non-durable manufacturing was off slightly in January, with component industries showing only marginal gains and losses. All major group movements were in the order of 1 per cent, with the exceptions of a 2 per cent decline in paper products (due to pulp and paper) and an advance of 4 per cent in tobacco products.

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