

FOREIGN**Nitrogen, Phosphate Fertilizer Plant Planned for Alberta**

Commercial Solvents Corp. announces it will participate in a Canadian nitrogen project. The new company, known as Northwest Nitro-Chemicals, Ltd., will manufacture and market high analysis nitrogen and phosphate fertilizers.

Associated with Commercial Solvents in this venture will be New British Dominion Oil Co., Ltd.; along with Ford, Bacon & Davis, Inc.; and Frank McMahon of Alberta. Northwest Nitro-Chemicals will be operated by Commercial Solvents under a long term management contract.

In addition to the investment by Commercial Solvents and its associates in the new enterprise, the investment banking firm of Eastman Dillon & Co. proposes to raise the balance of the necessary funds through public sale of debentures and common stock, as well as the private placement of mortgage debt.

The project will be located in southern Alberta. Consumption of the products will be in the fast growing agricultural areas of the prairie provinces of Canada and in the northwestern United States.

Northwest Nitro-Chemicals will be supplied with natural gas from the Etzikom Gas Reserve owned by New British Dominion Oil Co., Ltd. and Mid Con Oil and Gas Co. Prime contractor will be Ford, Bacon & Davis, Inc. of New York City, with Commercial Solvents serving as consulting engineers. Construction is expected to begin shortly, with completion late next year.

Swedish Plant to Produce 400 Tons Per Day of 13-11-13

A continuous process fertilizer plant with a capacity of 400 tons per day of a 13-11-13 fertilizer is under construction in Koping, Sweden. The plant will employ the PEC carbo-nitric process under license agreement with Potasse & Egrais Chimiques, Paris, France.

PEC claims that its PEC process produces complex fertilizers more economically than any other existing continuous chemical process. The process is discussed in the New Products and Equipment Section, page 356.

Lever Sells Canadian Birds Eye

Birds Eye Foods (Canada) Ltd., Canada's largest selling brand, has been purchased by a U. S. and Canadian group headed by Milton S. Jennings of New York and Hugh Paton of Toronto. This was announced by Jennings who

will be president of the new Canadian company. Birds Eye is said to market some 50% of the total consumer quick-frozen foods in Canada.

General Foods Corp., which originally purchased world rights to Birds Eye Foods from Clarence Birdseye for \$22 million in 1929, sold these rights—excepting for United States—to the Unilever organization in 1942. The Jennings-Paton group now owns Birds Eye in Canada. Lever retains Birds Eye in the rest of the world.

President of National Almond Products Corp., New York, Jennings recently sold his controlling interest in Airline Foods Corp., which he headed for 28 years. Airline Foods was a holding company for 15 food plants in the United States. Paton, a Canadian industrialist, is president of Paton Corp. of Toronto, which owns properties in shipbuilding, oil, and food industries.

Jennings predicts that the Canadian market for frozen foods will soon approximate 500 million pounds with an estimated value of \$150 million.

Indian Agricultural Research Institute Celebrates 50th Anniversary

The Indian Agricultural Research Institute at New Delhi, popularly known as the Pusa Institute is celebrating its Golden Jubilee in April.

The research Institute was originally established at Pusa in 1905 through the donation of £ 3000 given by an American philanthropist, Henry Phipps. The institute remained in Pusa until the Bihar earthquake of 1934 demolished the laboratory buildings. The institute was rebuilt near New Delhi.

There are six major research divisions within the institute each with separate buildings and experimental areas. The divisions include: agronomy, botany, soil science, agricultural engineering, entomology, and mycology and plant pathology.

Considered to be one of the best installations of its kind in the East the institute is cooperating with the US-TCA conducting fertilizer trials in various parts of India.

RESEARCH**Phillips' Range Project Studying Revegetation**

Phillips Petroleum Co. reports that its new agricultural demonstration project near Foraker, Okla., has established a nursery where native and introduced grasses and legumes can be studied. Planting operations are now under way.

The project is studying adaptation of various plant species to a revegetation program and response to nitrogen and other plant nutrients.

\$76,915 Awarded for Vitamin, Nutrition Research

The National Vitamin Foundation has announced the award of 10 grants, totaling \$76,915, to universities and medical centers for clinical and laboratory research in the field of vitamins and nutrition.

Those receiving grants are:

Laurens Anderson, University of Wisconsin, Madison, \$4000 for studies of the metabolism of *myo*-inositol in animal tissues.

William J. Darby, Vanderbilt University, Nashville, Tenn., \$1100 for studies of the requirement and physiologic effects in the human of the newer hemopoietic vitamins.

Robert S. Goodhart, Bacon F. Chow, and Stanley A. Tauber, The Nutrition Clinics Fund, New York, \$15,200 for studies of nutritional and metabolic aberrations associated with aging: (1) intrinsic factor and the metabolism of vitamin B₁₂.

M. K. Horwitt, Elgin State Hospital, Elgin, Ill., \$9000 for studies of tocopherol requirements of man.

Irene T. Kline, Western Reserve University, Cleveland, Ohio, \$4000 for studies of pantothenic acid in the biosynthesis of steroids.

H. A. Lardy, University of Wisconsin, Madison, \$15,000 for studies of interrelations between nutritional status and tissue metabolism.

O. O. Meyer and Robert F. Schilling, University of Wisconsin, Madison, \$4200 for studies of the metabolism of vitamin B₁₂.

J. F. Nyc and W. H. Griffith, University of California, Los Angeles, \$3015 for studies of the metabolic synthesis of monomethylethanolamine from ethanolamine.

R. W. Vilter, University of Cincinnati, Ohio, \$18,900 for metabolic studies in human beings with emphasis on vitamin B₆ metabolism.

G. Wolf, University of Illinois, Urbana, \$2500 for studies of the metabolism of radioactive vitamin A.

Fruit Tree Viruses Being Studied by Western States

Virus diseases of stone fruits are being studied in a stepped-up, cooperative project by seven western states and the U. S. and Canadian departments of agriculture, according to information from California. Work is being divided up according to the interests and facilities of the various groups.

The California Agricultural Experiment Station will attempt to isolate pure cultures of the various viruses. Utah