

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

researchers are to make physical and chemical studies with an electron microscope and other special equipment, while Oregon scientists will investigate insect transmission of viruses. Washington State College studies will be devoted to the virus content of roostock and budwood sources used by the fruit tree industry in the West. Colorado, Montana, and Idaho are also contributing to the study.

ASSOCIATIONS

Solar Energy Symposium Scheduled Next Fall

A World Symposium on Applied Solar Energy is being planned for Nov. 2 to 5 under the joint sponsorship of Stanford Research Institute and the Association for Applied Solar Energy. Lewis W. Douglas will serve as general chairman of the symposium, which will bring scientific and industrial interests to bear on practical applications of solar energy.

Brewing Microbiology on Schedule of ASBC Meeting

A symposium on microbiology in brewing is being planned for the annual meeting of the American Society of Brewing Chemists, which is to take place in Philadelphia May 1 to 5. Featured speaker at the symposium will be Cecil G. Dunn of MIT. Technical sessions at the meeting will begin on May 2 and continue through May 5, with plant visits and laboratory tours scheduled also.

CFA Meet Set for November

The California Fertilizer Association has announced that its 32nd annual convention will be held Nov. 7 and 8 at the Hotel Mark Hopkins in San Francisco.

Packaging Machinery Institute To Meet in Chicago in April

The Packaging Machinery Manufacturers Institute has announced that its spring meeting will be held at the Palmer House in Chicago, April 16 and 17. The meeting will precede the annual Packaging Show which opens at the International Amphitheatre on April 18.

Symposium on Arid Lands Next Month in New Mexico

Two meetings on international arid lands are being planned for April 26 to May 4 in New Mexico. The first meeting, a symposium April 26 to 29, will be held in Albuquerque, N. M. The other, a conference, takes place May 2 to 4 in Socorro, N. M., after a field trip to El

Paso, Tex., on April 30 and May 1. The meetings are being sponsored by the American Association for the Advancement of Science and its southwestern and Rocky Mountain division.

The symposium will pose four broad questions—variability and predicability of water supply in arid regions, better use of present resources, prospects for additional water sources, and better adaptation of plants and animals to arid conditions—with one session devoted to each. Speakers in each session will not be assigned specific subjects but are to direct their attention to the session question. Discussions will follow each session. In addition, the last day of the symposium will be devoted to 13 discussion groups on various phases of the problems.

Further information on the program can be obtained from AAAS, 1515 Massachusetts Ave., Washington 5, D. C.

Agronomy Society Sets 1955 Meeting for Davis, Calif.

The University of California at Davis will be host for the 1955 meeting of the American Society of Agronomy and the Soil Science Society of America. The meeting, set for Aug. 15 to 19, will be the first meeting west of the Rockies for the two societies.

CALENDAR

Conference on Biological Waste Treatment. Manhattan College, New York, N.Y. April 13-15.

American Oil Chemists' Society. Roosevelt Hotel, New Orleans, La. April 17-20.

Scientific Apparatus Makers Association. The Greenbrier, White Sulphur Springs, W. Va. April 24-28.

Pennsylvania Manufacturing Confectioners' Association. Franklin and Marshall College, Lancaster, Pa. April 28-29.

American Society of Brewing Chemists. Hotel Bellevue-Stratford, Philadelphia, Pa. May 1-5.

American Association of Cereal Chemists. Chase Hotel, St. Louis, Mo. May 15-19.

Institute of Food Technologists. Columbus, Ohio. June 12-16.

National Fertilizer Association and American Plant Food Council (joint meeting). Greenbrier Hotel, White Sulphur Springs, W. Va. June 13-15.

Pacific Northwest Plant Food Association. Regional Fertilizer Conference. Boise Hotel, Boise, Idaho. June 28-30.

American Society of Agronomy. Davis, Calif. Aug. 15-19.

Some 450 technical papers are scheduled on the program and delegates will have opportunities to visit the agricultural research center at Davis, as well as those in other parts of California.

EDUCATION

Milk Industry Management Course at Oregon State

Oregon State College announces that its department of dairying will offer a major in milk industry management next year. The course is planned to stress production management, advertising, sales, accounting, and related business phases, in addition to technical subjects. The business courses will be concentrated in the last two years, and the more technical aspects will be taught in the first two years. Oregon State offers majors in milk production and milk processing in addition.

According to P. M. Brandt, department head, national surveys indicate that demand for trained dairy workers is running far ahead of supply. The course was set up at the request of the Oregon dairy industry.

PEOPLE

Sebrell Re-Elected Head of National Vitamin Foundation

W. H. Sebrell, Jr., director of the National Institutes of Health, has been re-elected president of the National Vitamin Foundation. E. Gifford Upjohn, president of Upjohn Co., was re-elected chairman of the board of governors. E. C. Kleiderer, executive director of research and control for Eli Lilly, remains chairman of the executive committee. Vice presidents re-elected were: R. W. Albright of Distillation Products, W. R. McHargue of Squibb, and John J. Powers, Jr., of Pfizer. J. David Hayden of R. P. Scherer Corp. remains treasurer; Henry K. Urion, secretary and counsel; and Rita D. Gilbert, assistant secretary.

R. S. Thompson Elected President of Thompson-Hayward

Robert S. Thompson has been elected to succeed his father, Charles T. Thompson, as president of Thompson-Hayward Chemical Co. The former president will remain on the company's board of directors. Other officers elected were: Fred M. Goodwin, executive vice president; Lindley S. DeAtley, J. Frank Cavanaugh, and K. A. Frambach, all vice presidents; J. N. Franz, treasurer; R. E. Ballinger, secretary; and Carol