

News of the Month . . .

INDUSTRY

Spencer Adds Aqua Ammonia, Nitric Acid Units at Henderson

Facilities for producing aqua ammonia are being completed at Spencer Chemical's Henderson, Ky., plant. The company is also planning to build a unit for concentrated nitric acid at the same location. The new units will permit greater diversification at Henderson, but no increase in ammonia capacity is planned, the company said.

The nitric acid unit, construction of which is scheduled to begin in October, will produce up to a 68% nitric acid as compared with 55% acid now being made there.

Pitt Coke, Bayer Consolidate Pesticide Activity in Chemagro

Farbenfabriken Bayer, AG, and Pittsburgh Coke & Chemical have announced they will consolidate their respective agricultural chemical operations in the U. S. and Canada in Chemagro Corp.

Chemagro was established in 1950 to introduce Bayer's new pesticide products in the U. S. farm market. Pittsburgh Coke acted as the principal manufacturing source and also marketed several of its products. Integration of the two companies' pesticides activities enables Chemagro to operate as an autonomous organization with complete control of its own manufacturing, research, and marketing facilities. According to the announcement, sites for the company's first manufacturing plant are now under study.

George W. Hill, Jr., will continue as Chemagro president. Herbert F. Tomasek will serve as vice president, and W. Scott James will be assistant to the president. Robert C. Scott is director of manufacturing; Rosmarie von Rumker, director of research; and Hugh H. Swink, director of sales. Pittsburgh Coke's sales and research staffs in agricultural chemical sales will be integrated with Chemagro's.

Calspray's Nitric Acid Plant Going on Stream

Calspray expects to be shipping nitric acid by the middle of this month from its half-completed fertilizer facility at Richmond, Calif.

Other portions of the new plant will go on stream as they are completed.

The nitric acid is manufactured from anhydrous ammonia supplied by Standard Oil's near-by plant. Using the PEC Carbonitric process, Calspray's plant will avoid use of sulfuric, using nitric and phosphoric acids instead to process phosphate rock.

When all phases of the construction are complete, Calspray will be able to produce 1000 tons of fertilizer. Complex mixes will be pelletized.

Arthur D. Little Buys Miner Laboratories

Arthur D. Little, Inc., has announced its purchase of the Miner Laboratories, Chicago chemical consultants. The merger took effect April 1.

John R. Kirkpatrick, who established ADL's Midwest office in 1952, will manage the new ADL Midwest Division—Miner Laboratories. C. S. Miner, Jr., will continue to direct its technical operations. The Miner Labs were organized about 50 years ago by Carl S. Miner.

Stauffer Builds Sulfuric Plant

Stauffer Chemical announces it will build a \$2 million sulfuric acid plant at Dominguez, Calif. Full scale production is expected early next year. Stauffer has another sulfuric plant at the same location, in addition to plants at Richmond and Vernon, Calif.

Monsanto Closing Norfolk Cocoa Plant

Monsanto Chemical has announced that its Norfolk, Va., plant will be closed down and placed on a stand-by basis this coming summer when existing raw materials inventories at the location have been exhausted. Closing of the plant will take the company out of production of crude theobromine, cocoa butter, and cocoa tankage.

Cocoa expeller cake, a residue of cocoa butter manufacture, is the primary raw material for the plant. From it, a further extraction of cocoa butter is made and crude theobromine also is obtained, the latter being used as starting material for refined theobromine and caffeine.

Reduced tariffs on theobromine and caffeine now permit importation of these products from low-wage scale countries abroad at prices which are

uneconomic to U. S. producers, the company said. In addition, the chocolate industry recently has obtained increased amounts of cocoa butter from the expanded manufacture of cocoa powder, in great demand presently for such products as chocolate cake mixes and instant chocolate drinks. The result, according to Monsanto, has been a reduced availability of expeller cake and an over-supply of cocoa butter, making further extraction from expeller cake uneconomic in view of the import-deflated prices of theobromine and caffeine.

Calspray Changes Organization of European Subsidiary

California Spray-Chemical Corp., recently announced a change in the corporate structure of its French subsidiary. California Spray-Chemical Cie. Francaise SARL Co., France, as the subsidiary is known, will be converted into a Societe Anonyme with a capitalization of 265 million francs.

N. B. Van Buren, formerly president of Calspray's French subsidiary, has been named president and director general of the new California Spray-Chemical Cie. Francaise S. A. At the same time, Van Buren was promoted to general manager, eastern hemisphere operations, for the French parent company.

T. P. Strand, who formerly served as Calspray's district manager of the intermountain area, has been appointed assistant general manager of the new French corporation and named executive assistant to the president of Calfrance.

Calfrance is building a \$1.5 million plant in southern France to manufacture captan fungicide. Capital for construction of the plant is being supplied by American Calspray through arrangement with the French government.

New Granular Plant in Ohio

Tyler Grain & Fertilizer Co. announces the building of a new fertilizer plant at Weilersville, Ohio. The plant will include a storage building, batching hoppers, and Weatherly-controlled granulation plant. High analyses granular fertilizers with a particle size range between 6 and 16 mesh will be manufactured at a rate of 20 tons per hour.

Completion is expected in July. Engineers for the plant are D. M. Weatherly Co.

BUSINESS AND FINANCE

Diamond's Sales Up 22% in First Quarter

First-quarter sales and earnings of Diamond Alkali were the highest for any similar period in this chemical producer's 45-year history, it is reported.

Net sales for the quarter totaled \$29,856,487, representing an increase of \$5,385,443, or 22% over the total of \$24,471,044 for a corresponding period in 1955. Net income after provision for taxes amounted to \$2,833,471, equivalent, after preferred dividends, to \$1.12 per share. This represents a 66% increase in net earnings when compared with 1955 first-quarter net earnings of \$1,711,107, or 67 cents per share on the same number of shares.

Olin Mathieson's Sales Reach Record High in 1955

Net sales of Olin Mathieson rose to a record high of \$560,480,000 in 1955 compared to \$502,478,000 in 1954, an 11.5% increase. Net profits in 1955 totaled \$44,558,000 compared to \$38,075,000 in 1954. Profits increased 17% and earned \$3.51 per share of common compared to \$3.11 in 1954 on a smaller average number of shares outstanding in that year.

Rohm & Haas Reports Increase in Sales of 21%

Sales of Rohm & Haas in 1955 amounted to \$161.6 million, a 21.9% increase over the company's previous high year, 1954, when sales were \$132.6 million. This was principally due to increased volume, since the company's weighted average of the selling price of its products was 3.9% lower than in 1954. The company's earnings were also higher—from \$12.4 million in 1954 to \$17.7 million in 1955.

Chemicals Account for Improved W. R. Grace Earnings

W. R. Grace & Co. reports a 20% increase in consolidated net earnings in 1955 and a 3% increase in sales. Net earnings amounted to about \$18.8 million compared with \$14.8 million in 1954, while sales climbed from \$413.4 million in 1954 to \$427 million in 1955. According to the annual report, higher sales in the chemical divisions accounted for most of

the increase, and the higher profits, despite little change in sales, reflects the growing importance of chemicals in the company's set up.

CSC Earnings at \$56.6 Million

Commercial Solvents reports earnings of \$3,451,813 or \$1.31 per common share for 1955. Earnings in 1954 were \$2,668,342 or \$1.01 a share. Sales totaled \$56,623,754 in 1955, compared with \$51,608,349 in 1954. Earnings include 12 cents per share extraordinary earnings.

Monsanto's Sales Up 6%

Consolidated sales of Monsanto Chemical for the first quarter of 1956 amounted to \$140,611,232, an increase of 6% over the adjusted sales of \$132,707,995 for the first quarter of 1955.

Income for the first three months of 1956 was \$11,255,291, equivalent to 54 cents a common share. Adjusted earnings for the corresponding period in 1955, including Lion Oil figures, were \$14,256,071 which, after provision for preference dividends and adjustment for the recent stock split, were equal to 67 cents a common share.

RESEARCH

Antibiotic Mixture Controls Bean Rust in Greenhouse Test

USDA has announced that an experimental antibiotic mixture has effectively controlled bean rust in preliminary greenhouse tests. The mixture, referred to as F-17, is a crude culture filtrate containing three and possibly four antibiotics, produced by *Streptomyces cinnamoneus* grown in a medium of tap water, soybean, meal, and glucose.

According to the USDA announcement, which stresses that the material is still a long way from practical grower use, F-17 even at 1/16th of the original concentration showed eradicated and preventive powers.

CALENDAR

American Association of Cereal Chemists. Hotel Commodore, New York, N. Y. May 20-24.
National Plant Food Institute. The Greenbrier, White Sulphur Springs, W. Va. June 10-13.
Institute of Food Technologists. St. Louis, Mo. June 10-14.

ASSOCIATIONS

Fulbright to Be Main Speaker at NFFI Meet

Senator J. W. Fulbright (D-Ark.) is to be the principal speaker at the annual convention of the National Plant Food Institute at White Sulphur Springs, W. Va., June 10 to 13. Senator Fulbright is chairman of the Senate Committee on Banking and Currency.

Another feature of the meeting will be a panel on salesmanship. Speakers will be J. M. Bohlen and George M. Beal of Iowa State College who will make a visual presentation of the results of an extensive survey on "Who Influences the Farmer," and Glenn R. Fouche, president of the Stayform Co., Chicago, who will speak on dramatizing selling.

International Symposium on Chemicals in Foods

The International Bureau of Analytical Chemistry has announced it will hold the second of its proposed series of five symposia on chemicals in foods this summer. The symposium is to take place in Amsterdam July 9 to 11. The specific area with which this symposium is to be concerned is the influence of industrial practices on the biological integrity of food. General chairman of the symposium is Gabriel Bertrand, member of the Institute de France and the academies of medicine and agriculture.

Further information regarding the symposium can be obtained from H. F. Du Pont, secretary-general, International Bureau of Analytical Chemistry, 18, Avenue de Villars, Paris 7.

Pacific Members ESA to Meet Next Month in Berkeley

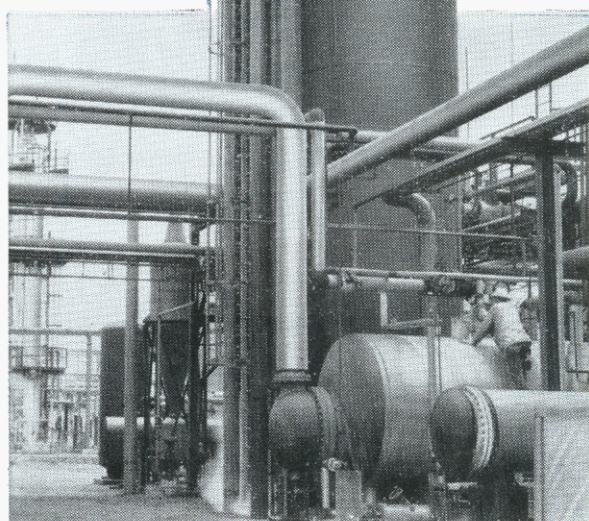
The Pacific Branch of the Entomological Society of America has announced its 1956 meeting will be held at the Hotel Claremont, Berkeley, Calif., June 26 through 28. Several symposia and special events are scheduled, including a symposium on the Miller Pesticides Amendment.

Biochemical Processing of Wastes Topic of MIT Course

A two-week special program will be offered by MIT this summer to review recent advances in biochemical processing of industrial wastes. Dates of the program are Aug. 20 to 31.

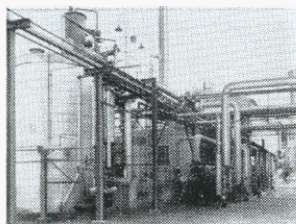


on stream at



▲ 180 ton-per-day Nitric Acid Plant designed and built by C & I for Sohio at Lima, Ohio.

This plant is one of many large capacity, single unit plants recently completed by C & I. They operate in excess of 345 days a year with excellent overall efficiency and minimum production costs. If you are considering nitric acid facilities it will pay you to consult C & I.



▲ 250 ton-per-day Ammonium Nitrate Solutions Plant designed and built by C&I for Sohio at Lima.

Write C & I for complete information on the new Spherical Form Ammonium Nitrate produced by the CSC Stengel Process, now available through C & I.



THE CHEMICAL AND INDUSTRIAL CORP.

CINCINNATI 26, OHIO

Designers and builders of the world's best plants for Nitric Acid • Phosphoric Acid • Ammonium Nitrate • Complex Fertilizer • Ammonium Phosphate

Nominations for Spencer Award in Ag and Food Chemistry

Nominations are now being requested for the second annual Charles F. Spencer Award in agricultural and food chemistry, which is administered by the Kansas City Section of the AMERICAN CHEMICAL SOCIETY. The first recipient of the award was Ralph M. Hixon of Iowa State College.

Persons eligible for nomination

should have done their work in the general field of agricultural or food chemistry, regardless of whether it be in industry, education, or research. Nominees need not be ACS members, but they must be U. S. citizens and have done their work in the U. S.

Nominating blanks and instructions are available from: Chairman, Charles F. Spencer Award, AMERICAN CHEMICAL SOCIETY, 425 Volker Blvd., Kansas City 10, Mo.

MIT Summer School on Modern Food Technology

A series of conferences on modern food technology is being offered at MIT from June 18 through 29. Special attention is to be devoted to developments in radiation sterilization, rheological developments, and knowledge of nutrition including geriatrics. Full details may be obtained from Summer Session Office, Room 7-103, MIT, Cambridge 29, Mass.

Miller Bill Tolerances...

CHLORDANE and HEPTACHLOR

Tolerances for chlordane and heptachlor have already been established under the Miller Bill to cover certain crops where a tolerance is necessary. The chlordane tolerance on these crops is 0.3 parts per million. The heptachlor tolerance is 0.1 parts per million.

Current chlordane and heptachlor recommendations conform with the established Miller Bill tolerances. The established tolerances for chlordane and heptachlor cover all of the previous major uses for these insecticides.

In selecting an insecticide for your use, remember—variances in tolerances do not imply that one insecticide is safer or more effective than another. Neither do variances in tolerances imply that one insecticide is more hazardous to warm blooded animals than others—all insecticides may be hazardous when used improperly.

No trace of Heptachlor in milk

The United States Department of Agriculture recently conducted tests in which heptachlor sprayed alfalfa was fed to dairy cattle. The alfalfa was treated with heptachlor at recommended dosages. Chemical analysis by the USDA showed no trace of heptachlor in the milk.

Based on the tests mentioned above, when a 4 ounce actual heptachlor per acre application is sprayed on pasture or hay crops, a 7 day interval between application and cutting or pasturing is all that is required. With a 5 to 8 ounce per acre application, a waiting period of only 10 days between application and pasturing or cutting is required.

As indicated above, certain uses of chlordane and heptachlor on certain raw agricultural commodities result in no residue at harvest and therefore no tolerance is required for such uses and commodities. For a list of these uses and a complete list of the crops covered by established tolerances, please write to:



VELSICOL CHEMICAL CORPORATION

330 E. Grand Avenue • Chicago 11, Illinois

PEOPLE

Etheredge Awarded 1956 Herty Medal

Mahlon P. Etheredge, dean of Mississippi State College school of science, received the 1956 Herty Medal from the Georgia Section of the American Chemical Society on May 5. The award is sponsored each year by Georgia State College for Women and is



given for outstanding contributions to chemistry in the Southeast. Dr. Etheredge's research has been on the chemical analysis of starch, fertilizer, and cottonseed meal. He has been head of the department of chemistry and chemical engineering at Mississippi State since 1945, assuming his present duties in addition in 1951. He has been active in educational matters in the Southeast for many years.

John H. Prine has been assigned to the planning, development, and education section of Dow's agricultural chemicals sales group. The former staff assistant to the head of the ag chemical sales group will handle market analysis, sales records, statistics, and forecasts. Also joining the section are: Hollis H. Brower, responsible for veterinary and feed chemicals; and Earl M. Lutz, to provide technical assistance in connection with soil, space, and grain fumigants. The section head, Hillard L. Smith, is handling additional duties in connection with herbicides, insecticides, and fungicides.

Sigurd W. Melsted, professor of soils, University of Illinois, has been awarded a Guggenheim Foundation Fellowship for 1956 to study the chemistry of manganese in soils.

James H. Lum has been promoted from director of development for Monsanto's organic chemicals division to manager of research and development for the division. He succeeds **Howard K. Nason** who has been named general manager of the company's research and engineering division. **Ferdinand B. Zienty** becomes the organic division's director of research and **Monte C. Throdahl** director of development.

Milton E. Parker has been named president of Sea Products Corp. and visiting professor of food engineering to the New Bedford, Mass., Institute of Textiles & Technology.

Robert G. Howe and **Mark G. Wiltse** have become field specialists in agricultural chemicals for Dow Chemical. Dr. Howe will be concerned with research in the 12-state Midwest, and Dr. Wiltse with 14-state eastern area. The appointments are in line with Dow's agricultural chemical development program, which is designed to bridge the gap between laboratory research and sales.

Sam R. Hoover, assistant chief of USDA's Eastern Utilization Research Branch, received the \$1000 Borden Award in the chemistry of Milk during the recent ACS meeting.

Albert E. Forster was elected board chairman and re-elected president of Hercules Powder recently. He succeeds **Anson B. Nixon**, who is retiring, as board chairman.

Gerald Reed has been appointed director of research for Red Star Yeast & Products Co. He fills the position left vacant by the death of **F. J. Rudert**.

Frank S. Black has joined the product development laboratory of Atlas Powder to head its agricultural chemical project. He was formerly with Niagara Chemical Division of Food Machinery.

L. W. Cameron was recently elected president of Miller Chemical & Fertilizer. He has been the company's treasurer for several years. Other officers elected are: **Roger W. Co'hill**, vice president and general sales manager; and **W. D. Ashmore**, treasurer. **W. Newton Long**, retiring president, and **T. L. Smith**, retiring vice president and general sales manager, will remain active on a part time basis as chairman of the board and sales manager of the fertilizer division, respectively.

E. F. Kindsvater has been elected president of the Farm Chemical Resources Development Corp. He has been general manager of the rocket fuels division of Phillips Petroleum Corp. Farm Chemical Resources was formed to mine and process potash on a 13,000 acre tract in southern New Mexico.

Charles E. Wilson will retire from the board chairmanship of W. R. Grace & Co. on May 10. The former General Electric executive and Chairman of the Defense Mobilization Board joined Grace in 1952.

William Bellano has been appointed to the newly created position of director of mining and minerals exploration for International Minerals. He has been serving as production manager of the company's phosphate chemicals division.

Wayne Kincannon has been appointed manager of Stauffer's agricultural chemicals plant at North Little Rock, Ark. He was formerly with the company's operation at Lubbock, Tex.

Johnathan C. Baker has left GLF to join Summers Fertilizer Co. and Northern Chemical Industries to serve as general traffic manager of both companies.

Robert E. McKenzie has been transferred from the sales group for Carbide & Carbon's Crag agricultural chemicals to the technical service group in San Francisco.

M. S. Williams has been appointed chief economist for the National Plant Food Institute, effective July 1. Dr. Williams is now specialist in charge of extension farm management and marketing at North Carolina State College. At NPFI, he will develop programs designed to focus attention on the economic value of using fertilizers properly.

Robert P. Langguth has been promoted to group leader and will direct activities of the food laboratory of Monsanto Chemical's inorganic chemicals division research department. He has been concerned with the development of liquid fertilizers and in the use of phosphoric acid for various fertilizer applications.



Myron Brin has joined Food Research Laboratories as chief biologist. **Mona Oser**, former chief biologist, has been named assistant to the director.

Gail M. Dack, head of the University of Chicago Food Research Institute, will receive the 1956 Babcock-Harte Award in recognition of his work in the area of food poisoning. The award, donor of which is the Nutrition Foundation, will be presented on June 11 during the meeting of the Institute of Food Technologists in St. Louis.

Vernon Bryson will leave the National Science Foundation to become associate director and professor of the Institute of Microbiology at Rutgers on July 1.

E. P. Madsen has been promoted from vice president and controller of Shea Chemical to senior vice president. Also promoted at Shea were: **James D. Hogan**, from assistant to the president to vice president; **J. B. Suttiffe**, from director of industrial sales to vice president; **G. C. Taylor**, from assistant controller to controller; and **Vincent H. Shea, Jr.**, from sales coordinator and plant purchasing office at Columbia, Tenn., to general purchasing officer.

Oliver W. Weinkauff has been appointed by Monsanto to the newly created position of director of technology for the research department of its organic division. He was formerly associate director of research. **Harry W. Faust** is being promoted from assistant director of research to assistant to the director of research. New assistant director of research is **Ralph H. Munch**, formerly research section leader. At the Nitro, W. Va., organic research facility, **Kenneth L. Godfrey** and **James O. Harris** have been appointed research section leaders.

Robert Velgos has joined the research staff of Michigan Chemical Corp.

Edward D. Toland, Jr., has been elected treasurer of Monsanto Chemical. The former assistant treasurer succeeds **William W. Schneider**, vice president who has been acting treasurer for the past two and a half years.

Henry S. Curtis has left Monsanto to become plant manager at American Potash & Chemical's Henderson, Nev., plant. **Thomas W. Clapper**, formerly of Chemical Construction, has been named associate director of research to head the research activities there.