

Spencer Agronomist Uses Flannelboard to Demonstrate Soil Science



Proctor Gull, manager of the agronomy department of Spencer Chemical Co., demonstrates a technique he developed to illustrate some fundamental points of fertilizer manufacture and soil science. The flannel board, he says, helps an audience follow chemical reactions in the soil. In the top picture, he explains that phosphate rock, treated with sulfuric acid, gives gypsum, monocalcium phosphate, and calcium fluoride, coming off at the right. In the photograph at the left, he explains that clay is the storehouse for plant nutrients. The plant root trades hydrogen for cations or nutrients. The root obtains hydrogen from the partial oxidation of sugars, which are transferred from the seed or leaf where they are stored or synthesized

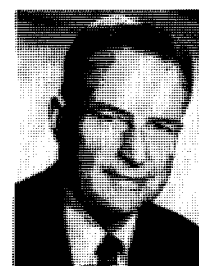
Bernard Daubert has left Koppers Co., where he was assistant manager of the laboratory, to join the central laboratories of General Foods as technical director of scientific development.

T. S. Carswell, vice president in charge of the biochemicals division of Commercial Solvents, has been elected a director of the company.

Arne E. Carlson has been appointed manager of agricultural chemicals sales of DuPont's Grasselli Chemicals department. He succeeds **George A. Wright**, who has been named New York district sales manager for the Grasselli department. **Edward J. Maguire**, who has been New York district sales manager since 1932, will act as a consultant until his retirement on June 30 after 44 years with Grasselli. **Edward F. Sterk**, assistant to the agricultural chemicals sales manager, has retired after 45 years with Grasselli.

Perry R. Stout has been appointed director of the University of California's new M. Theodore Kearney Foundation of Soil Science, which is now activated.

Arthur F. Bixby has been named assistant manager of agricultural chemicals of Pennsalt, Washington. He will make his headquarters in Tacoma, Wash.



William Eng has joined Stauffer Chemical as assistant to the president. He had been manager of manufacturing of American Cyanamid's agricultural chemicals division.

N. C. Babcock, **E. E. Fogle**, and **H. D. Kinsey** have been named vice presidents of Carbide and Carbon Chemicals Co., Division of Union Carbide & Carbon. **Robert N. Graham** and **William F. Reich, Jr.**, have been promoted to executive vice presidents of the company.

Charles S. McWilliams has been appointed chief of the cereal and baked products division of the Quartermaster Food and Container Institute. He has been with the division since 1946.

People

Truog Honored Before Retirement

Emil Truog, retiring professor of soil science at the University of Wisconsin,



was honored by his associates at a testimonial dinner in the Memorial Union recently. **George D. Scarseth**, director of research for the American Farm Research Association, announced that the "Emil Truog Award" had been founded for presentation annually to an outstanding soil scientist. Money for the fund was donated by friends and former students.

Samuel C. Prescott of MIT, **Laurence V. Burton** of the Packaging Institute, **Ernest C. Crocker**, **Carl R. Fellers** of the University of Massachusetts, and **Clarence Birdseye** have been elected honorary charter members of Phi Tau Sigma, recently founded food science honor society.

Clarence Barbre, general superintendent of production for Monsanto's Krummrich plant, has assumed new duties as technical advisor in the agricultural chemical field for Monsanto's inorganic Chemicals division development department.

R. H. Wellman has been named assistant manager of the fine chemicals department of Carbide & Carbon. Former head of the company's biological research division, he will now be responsible for sales and market development of the company's line of Crag agricultural chemicals.

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