

# Industry News

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The following are excerpts from the "New Products and Services from Industry" discussion at the 1986 annual meeting of The American Phytopathological Society.

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Factors Effecting the Biocontrol of Agrobacterium tumefaciens by K-84.  
J. B. Bahme, AgBioChem, Inc.

Biocontrol of crown gall disease with Galltrol-A can be optimized by proper timing of the application, controlling the temperature, and adjusting the concentration of the agent. Galltrol-A completely controls nonresistant and some resistant strains of Agrobacterium tumefaciens and reduces the incidence of galling caused by other resistant strains by 50 to 70%.

For more information contact: J. B. Bahme, AgBioChem, Inc., 3 Fleetwood Court, Orinda, CA 94563.

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Nustar Fungicide: Factors Contributing to Its Excellent Activity.

A. E. Davis and M. C. Crompton, E. I. du Pont de Nemours & Co., Inc.

Nustar is a new demethylation inhibitor with attributes that distinguish its activity from that of other fungicides. Apple scab and apple powdery mildew tests demonstrate Nustar's photostability, foliar penetration, redistribution, and preventive and curative activities. Neither ultraviolet radiation nor wash-off significantly affects Nustar's efficacy against apple scab. Time-course wash-off tests removing surface residues of Nustar show that the fungicide penetrates foliage rapidly to provide excellent apple scab control just one-half hour after application. Despite this rapid uptake, enough surface residue remains to be redistributed by wash-off and provide powdery mildew control on unsprayed foliage. Time-lag tests of 1, 5, and 7 days show that field rates of Nustar provide preventive powdery mildew control that is significantly better over time than that provided by field rates of a protectant fungicide. In apple powdery mildew extended curative tests, Nustar not only provides excellent control of 3- and 4-day-old infections but also controls postsymptom 5-day-old infections, dramatically suppressing both vegetative growth and sporulation of the fungus. Nustar's properties not only blend well with existing orchard management practices but also introduce greater flexibility in control of tree fruit diseases.

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Nustar Fungicide for Control of Grape Powdery Mildew in California.

F. W. Marmor and T. M. Fort, E. I. du Pont de Nemours & Co., Inc.

Nustar, 1-[[Bis(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole, is a new ergosterol biosynthesis inhibiting fungicide that provides excellent control of powdery mildew, caused by Uncinula necator, on grapes at the very low dosages of 0.25 to 1 oz a.i./acre. Presymptom applications on a 21- to 28-day schedule are more effective than postinfection applications. Nustar has no impact on grape maturity. Flexibility in tank-mix combinations is an additional benefit.

For more information contact: T. M. Fort, E. I. du Pont de Nemours & Co., Inc., Ag Products Department, Walker's Mill Building, Wilmington, DE 19898.

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Items for this column may be sent to H. V. Morton, Ciba-Geigy Corporation, P.O. Box 18300, Greensboro, NC 27419.

## Salute to APS Sustaining Associates

This section is designed to help APS members understand more about APS Sustaining Associates. Information was supplied by company representatives. Each month different companies will be featured. A complete listing appears in each issue of *Phytopathology*.

**CIBA-GEIGY Corp., Contact: Vince Morton, Manager Phytopathology, P.O. Box 18300, Greensboro, NC 27419; 919/292-7100.** CIBA-GEIGY Corp. is the U.S. subsidiary of one of the largest chemical companies in the world, CIBA-GEIGY Ltd., headquartered in Basle, Switzerland. The Agricultural Division of the U.S. company is situated in Greensboro, NC, and has been an important member of the agricultural industry for more than 30 years, manufacturing and distributing herbicides, growth regulators, insecticides, and fungicides. Among the latter are metalaxyl, sold as Apron® (seed dressing); Ridomil® (soil and foliar fungicide); Subdue® (for ornamentals and turf); and propiconazole, sold as Tilt®. There are several newer products in development, such as CGA-71818 (Topas™), for which we see a role in the future, the idea being to integrate these products in with the principles of integrated crop management. To this end, our scientists work with many university and USDA cooperative plant pathologists across the United States to limit disease losses in a responsible manner.

**DeKalb-Pfizer Genetics, Contact: David R. Smith, Area Director of Host Pest Resistance Section, 3100 Sycamore Rd., DeKalb, IL 60115; 815/756-SEED.** DeKalb-Pfizer, a joint venture of DeKalb AgResearch, Inc. and Pfizer Inc., is an international researcher, producer, and marketer of corn, sorghum, soybean, sunflower, and alfalfa seed. Product research forms the foundation of the company's operations. Researchers use traditional breeding methods as well as certain forms of genetic engineering in their effort to improve yields. An important aspect of the research effort involves evaluating

germ plasm worldwide and breeding for insect and disease resistance to reduce genetic vulnerability. Rigorous product testing and quality assurance ensures top performing products for farmers throughout the world.

**Del Monte Corporation, Contact: William L. Hagan, Ph.D., Director of Corporate Agricultural Research, 850 Thornton St., P.O. Box 36, San Leandro, CA 94577; 415/351-2661.** Del Monte is one of the world's largest marketers of foods and beverages. Directly or through subsidiaries and affiliates, it markets products in more than 60 nations from production facilities it maintains in 15 countries. Control of plant diseases is vital to Del Monte to maintain its leadership as a marketer of foods and beverages, and our company supports the activities of plant pathologists in major areas of production.

**Department of Agriculture, Research Laboratories, Fosters Rd., Northfield, South Australia 5085; (08)2660911.**

**The Dow Chemical Company, Contact: Frances C. O'Melia, Product Development Manager, Agricultural Products Department, 9008 Building, Midland, MI 48640; 517/636-2532.** The Dow Chemical Company is engaged in the manufacture and sale of chemicals; plastic materials; pharmaceutical, agricultural and consumer products; and other specialized products. The company was organized in 1897 and has been producing agricultural products for over 75 years. Over three generations, the company's activity in agriculture has grown from a small plot in central Michigan to a global business backed by an international research organization. Dow's agricultural products line includes herbicides and insecticides for farm and industrial uses, miticides, fumigants, and fungicides and nitrogen stabilizers for plant nutrition. Dow plans to continue to emphasize research in those same areas as well as in certain new ones.

**E. I. DuPont De Nemours & Co., Inc., Agricultural Chemical Dept., Stine-Haskell Site, Newark, DE 19711; 302/774-2421.**

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