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VANGUARD



Circle No. 102 on Reader Inquiry Card

EVENTS

OCTOBER

15: Target Specialty Products Fall Seminar, Radisson Hotel, Sacramento, Calif. Contact: Target Marketing Communications Dept., (213) 865-9541.

16-17: Tree Fertilization Seminars sponsored by Forest City Tree Protection Co., Cleveland and Columbus,

Ohio. Contact: National Arborist Association, P.O. Box 1094, Amherst, NH 03031-1094; (800) 733-2622.

17-18: Fertilizer Outlook '91, Grand Hyatt Hotel, Washington, D.C. Contact: The Fertilizer Institute, 501 Second St., N.E. Washington, DC 20002; (202) 675-8250.

18-20: Sunbelt Agricultural Exposition, Moultrie, Ga. Contact: P.O. Box

1209, Tifton, GA 31793. (912) 386-3459.

National Institute on Park and Grounds Management Educational Conference, Reno, Nev. Contact: National Institute, P.O. Box 1936, Appleton, WI 54913; (414) 733-2301.

21-24: ALCA Interior Plantscapes Division Conference and Trade Show, Radisson Hotel, Denver, Colo. Contact: Conference Registrar at (703) 241-4004.

22-25: Penn State University, "Biodiversity and Landscapes: Human Challenges for Conservation in the Changing World," University Park, Pa. Contact: Dr. K.C. Kim, 117 Land and Water, Center for Biodiversity Research, Penn State University, University Park, PA 16802; (814) 863-0159.

24: NYSTA Safety and Preventive Maintenance Seminar, Oyster Bay, NY. Contact: (800) 873-8873.

24-27: American Society of Consulting Arborists Annual Meeting, Innisbrook Resort, Tarpon Springs, Fla. Contact: ASCA, 700 Canterbury Rd., Clearwater, FL 34624; (813) 446-3356.

25-26: Xeriscape '90, San Diego Convention Center. Contact: Cuyamaca College Botanical Society, Ornamental Horticulture Department, 2950 Jamacha Rd., El Cajon, CA 92019, or call Jan Tubiolo at (619) 443-1756.

25-27: American Society of Landscape Architects Annual Meeting and Educational Exhibit, San Diego Convention Center. Contact: Betsy Cuthbertson, ASLA, 4401 Connecticut Ave., Suite 500, Washington, DC 20008; (202) 686-2752.

26-29: National Conference of the American Society of Irrigation Consultants, Sunburst Resort Hotel and Conference Center, Scottsdale, Ariz. Contact: Wanda Sarsfield, ASIC, 425 Oak Street Brentwood, CA 94513; (415) 516-1300.

28-Nov. 1: International Irrigation Exposition, Phoenix Convention Center. Contact: The Irrigation Association, 1911 N. Fort Myer Dr., Suite 1009, Arlington, VA 22209-1630; (703) 524-1200.

31: Atlantic Seedsmen's Association "Marketing for Profit, Not Just Sales," Cavalier Hotel, Virginia Beach, Va. Contact: John E. Baylor, 298, McCor-
continued on page 26

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PRE-M stops crabgrass, annual bluegrass, foxtail, goosegrass, barnyardgrass and fall panicum. And it's effective on these tough-to-control broadleaf weeds: oxalis, spurge, common and mouseear chickweed, henbit, evening primrose and hop clover.

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broad-spectrum weed control. Programmed applications of LESCO PRE-M control both early and late germinating weeds. Labeled for use on most northern and southern turfgrasses, PRE-M's water-dispersible formula can be tank mixed with most fertilizers and pesticides.

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Circle No. 117 on Reader Inquiry Card

Reroute roots and the ugly side of yo

Introducing Typar® Biobarrier™ root control system.

Give unsightly roots a new direction in life. Down. With new Biobarrier, the advanced root control system that sends your maintenance costs in the same direction.

Biobarrier combines two of the most effective, longest-lasting elements in root control. One is Treflan®, one of the most proven herbicides in the country, featuring new controlled-release pellet technology. The other is Typar® fabric, made with rugged polypropylene geotextile that's porous enough to let air and water through but holds the Treflan pellets in place.

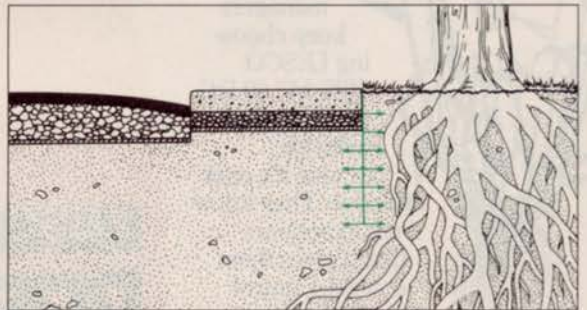
Together, they reroute roots without harming your trees and plants. And preserve the beauty of your landscaped areas — golf greens, cart paths, sidewalks, curbs, walkways, parking lots, swimming pools, gardens and others — for years to come.

Forget roots for 15 years.

Underground, Biobarrier sets up a solid rootproof zone that spans one to two inches on each side of the fabric. That's the Treflan controlled-release vapor zone. A zone so powerful, it repels roots at a controlled rate for 15 years or more.



Top Without Biobarrier, tree roots penetrate paved surface and aggregate base, causing unsightly cracking and heaving.



Bottom With Biobarrier, a protective zone of Treflan vapor reroutes roots downward without harming roots or tree.

Forget extra labor.

Without Biobarrier, you're spending plenty of time and labor to trench, trim roots and replace damaged landscaping. But with Biobarrier, you'll only do the job once every 15 years—trim roots, replace damaged cart paths and install Biobarrier.

By rerouting roots downward, Biobarrier protects your golf greens, cart paths, tennis

tame ur landscape.

courts, swimming pools and other recreational areas from unsightly roots. And helps keep your reputation in good standing among your customers.

Easy on plants and landscaping.

Unlike other control methods, Biobarrier won't harm trees or nearby landscaping. It doesn't kill roots, it just reroutes them away from your golf, recreational or landscaped areas.

Treflan's active ingredient is biodegradable. It cannot be taken up by plant systems. And it stays put without leaching out to keep rerouting roots for 15 years or longer.

Easy to install.

The Typar fabric in Biobarrier is flexible to make installation simple. Just install vertically along your golf, recreational or landscaped areas

where tree roots threaten to bring out the ugly side of your landscape.

Call toll-free.

For the complete story on Biobarrier, see your Elanco representative. Or send for a free technical brochure from Elanco Products Company, Lilly Corporate Center, Dept. EM-455, Indianapolis, IN 46285, U.S.A. Or call toll-free: **1-800-352-6776.**

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Bio  **barrier[™]**
Root Control System

Typar Biobarrier is jointly marketed by Reemay, Inc., a member of The InterTech Group, Inc., and Elanco Products Company, a division of Eli Lilly and Company.

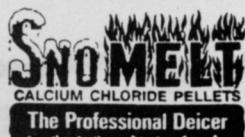
Treflan[®] — (trifluralin, Elanco)

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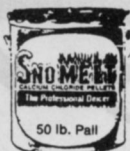
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Circle No. 132 on Reader Inquiry Card

EVENTS from page 22

mick Ave., State College, PA 16801;
(814) 237-0330.

NOVEMBER

4-8: Tree Biology Seminar, featuring Dr. Alex L. Shigo, Appalachian State University, Boone, N.C. Contact: Office of Conferences and Institutes (704) 262-3045.

7-9: Florida Nurserymen and Growers Association Foliage Safari, Ft. Lauderdale. Contact: FNGA, 5401 Kirkman Rd., Suite 650, Orlando, FL 32819; (407) 345-8137.

14: University of Florida Seminar on Cold Protection and Water Quality, Agriculture Center Auditorium, Sanford, Fla. Contact: Uday K. Yadav, (407) 323-2500, ext. 5559.

10-12: New Jersey Shade Tree Federation 65th Annual Meeting, Grand Hotels, Cape May, N.J. Contact: William J. Porter, N.J. Shade Tree Federation, P.O. Box 231, Blake Hall, Cook College, New Brunswick, NJ 08903.

10-14: Green Industry Expo '90,

Nashville, Tenn. Contact: Green Industry Expo '90, 1000 Johnson Ferry Rd., Suite C135, Marietta, GA 30068-2112; (404) 977-5222.

13-16: New York State Turfgrass Association, Turf and Grounds Exposition, Rochester, N.Y. Contact: NYSTA, (518) 783-1229.

15: Southern Grounds and Turf Maintenance Exposition, Myrtle Beach, S.C. Contact: (803) 737-9356. **LM**

BURN from page 16

cient signatures "indicates that we in the grass seed industry still have some support in the state. The people of Oregon care about our industry and the 10,000 jobs we generate."

Bill Young, sales manager with Lofts/Great Western Seed Co. thinks it's only a matter of time before burning is outlawed. "It's disappointing," says Young. "It's a viable and very adequate means. We're now going to have to develop other means and cultural practices." □

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The new Cushman GT-1 utility vehicle will outperform and outlast any converted golf cart on the market. Its frame and chassis are stronger and more durable. You'll find a bed

made of 14-gauge steel instead of 16-gauge steel. One-inch axles instead of 3/4-inch axles. And a proven Kohler industrial engine that's more reliable and easier to maintain.

When you need a utility vehicle that's been specifically designed for work instead of one that's been converted from play, contact your Cushman dealer for a GT-1 demonstration. Or call toll-free 1-800-228-4444 for more information today.



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WHAT TO DO WITH THE CLIPPINGS?

Regulations regarding lawn clipping disposal are popping up all over. So are alternatives to dumping them in overcrowded landfills.

by Will Perry, managing editor

What more can be said about the proliferation of landscape regulations? Today even the most innocuous byproduct of a hard day's work—grass clippings—falls under the legislative thumb.

Is that it now, Mr. Senator? Have all bases finally been covered?

Probably not. But this recent tide of legislation, enacted to preserve rapidly diminishing landfill space, may actually work to the landscaper's benefit. In today's increasingly environment-conscious market, using alternative disposal methods reinforces the industry's ecological concerns. Also, it may make mowing less time-consuming and burdensome.

Too much waste

Garbologists claim that organic lawn and ornamental matter, or grass clippings and tree limbs, is hogging as much as 20 percent by weight of this country's landfill space. Only paper and paperboard products account for more space. The Environmental Protection Agency projects that half of this country's 6,000 landfills will be closed within five years. The solution: banish all yard wastes.

Consequently, many states have done exactly that. The first bans on landfill disposal of grass and tree trimmings appeared in late 1989. Today, 11 states have enacted legislation to keep yard waste out of their landfills by 1993. In the District of Columbia, Illinois, and a seven-county metro area of Minnesota, it is already illegal to dispose of yard wastes in landfills.

Responding to the issue

The landscaping industry is responding to the landfill crisis in a variety of ways:

- lawn care professionals have gotten in front of the issue by spearheading the "Grasscycling: Today's Turf, Tomorrow's Earth" campaign;

- turfgrass breeders have begun measuring the total volume of clippings accumulated when evaluating new tall fescues;

- mulching or recycling mowers are gaining wider attention;

- a wealth of research is emerging that shows the value of returning organic material to the landscape; and

- composting is becoming a more viable service for landscapers to offer (see related story, "Meeting Tomorrow's Recycling Challenges.")

The "Grasscycling" campaign is being spearheaded by the Professional Lawn Care Association of America (PLCAA). It's an offshoot of a "Don't Bag It" program begun by Dr. Bill Knoop, a turfgrass specialist at Texas A&M University, and county extension agent Bob Whitney in 1989.

"None of the textbooks or any of the research papers ever written suggest that the bagging of grass clippings is a necessary part of lawn care," says Knoop. "The return of grass clippings to the lawn and eventually to the soil has always been considered to be a naturally accepted part of maintaining a lawn by the true turf experts."

One man's trash...

Knoop calls grass clippings "a valuable resource," noting they contain over four percent nitrogen, about two percent potassium and around a half-percent of phosphorus, as well as lesser amounts of other essential nu-

Kurtz Brothers of Valley View, Ohio, uses this Scat windrow machine to recycle organic yard waste into saleable fill material.

