

"Things are bigger here in Possum Kingdom, Texas. For instance, our 180,000 square feet of PennLinks greens that perform flawlessly in our extremes of heat, humidity and cold.

"We hand mow our greens at 3/16". The longer cut stresses the plant less, and promotes deeper, healthier roots. With PennLinks' upright growth habit, there's no need to mow shorter for a 'true' putt and the leaf length helps hold the ball on our extremely contoured greens.

"We realize a substantial monetary and labor savings with PennLinks. Its strong root system requires less syringing; we verticut and topdress only twice yearly, and have not had to apply any preventive fungicide since seeding in the spring of 1987.

"PennLinks also shows quick recovery from Texas-type trials like drought, water loss for 3-4 days, 2 inch hailstones, pythium and deer damage.

"I feel any superintendent who looks at all available bents with an open mind, and does his homework as I have, will choose PennLinks over any other. That's why PennLinks is on top at The Cliffs."

Randy Thompson, CGCS

Director of Golf and Course Management The Cliffs, Possum Kingdom, TX



Tee-2-Green Corp.

PO Box 250, Hubbard, OR 97032 503-981-9574 / FAX 503-981-5626

1-800-547-0255

Circle No. 162 on Reader Inquiry Card

SEPTEMBER 1989, VOLUME 28, NUMBER 9

LANDSCAPE MANAGEMENT



On the cover: Landscape Management again offers you the industry's most complete guide to the manufacturers and suppliers of turf equipment.

1989 BUYERS' GUIDE

- 27 Equipment
- 59 Equipment companies
- 72 Chemicals
- 90 Chemical companies
- 97 Seed and seed companies

DEPARTMENTS

- 4 As I See It ...
- 3 Green Industry News
- 14 Short Cuts
- 22 Athletic Turf
- 104 Products
- 107 Classified
- 110 Ad Index

LANDSCAPE MANAGEMENT (ISSN 0894-1254) is published monthly by Edgell Communications, Inc. Corporate and Editorial offices: 7500 Old Oak Boulevard, Cleveland, Ohio 44130, 111 East Wacker Drive, Chicago, Illinois 60601 and 3475 Lenox Road, N.E., Suite 665, Atlanta, Georgia 30326. Accounting, Advertising Production and Circulation offices: 1 East First Street, Duluth, Minnesota 55802. Subscription rates: \$25 per year in the United States: \$50 per year in Canada. All other countries: \$100 per year. Single copies (pre-paid only): \$2.50 in the U.S.; \$5.00 in Canada; elsewhere \$10.00; add \$3.50 per order for shipping and handling. Back issues, if available, \$100 and \$3.50 per order for shipping and handling (pre-paid orders only). Office of publication: Edgell Communications, Inc., 1 East First Street, Duluth, Minnesota 55802. Second class postage paid at Duluth, Minnesota 55806 and additional mailing offices. Copyright[®] 1989 by Edgell Communications, Inc. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical including photocopy, recording, or any information storage and retrieval system, without permission in writing from the publisher.

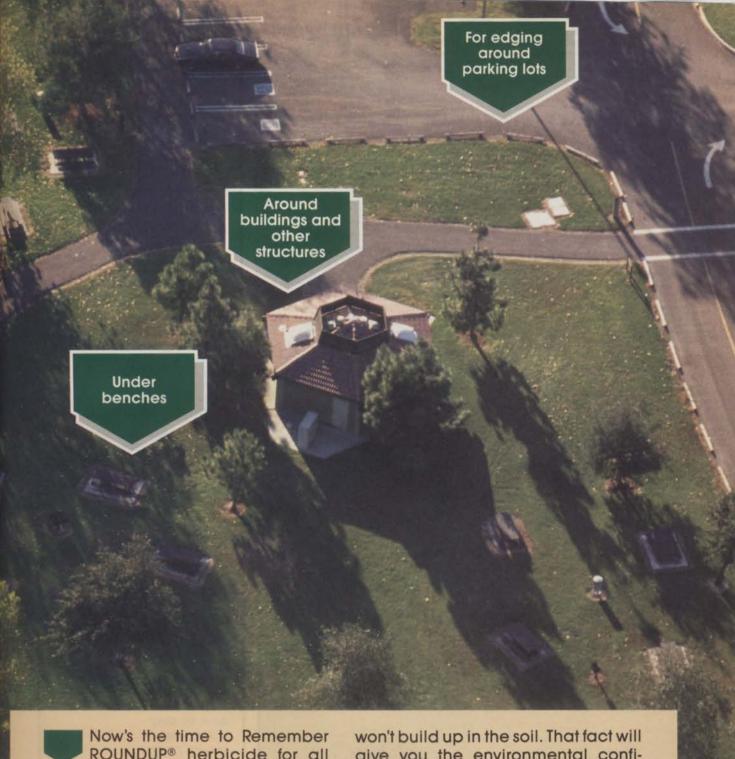
POSTMASTER: Send address changes to LANDSCAPE MANAGEMENT, P.O. Box 6198, Duluth, Minnesota 55806.



ABP



REMEMBER THE ROUND OF Along sidewalks and paved areas Around tree bases For edging along pond banks



Now's the time to Remember ROUNDUP® herbicide for all kinds of jobs around parks and recreational areas. Remember that ROUNDUP controls a broad spectrum of weeds roots-and-all. ROUNDUP is faster to use than mechanical trimmers and there's no need to retreat. That means you'll save time and labor.

Remember that ROUNDUP stays where you put it...so there's no washing or leaching problems to harm desirable vegetation. And Remember that ROUNDUP is biodegradeable and

won't build up in the soil. That fact will give you the environmental confidence you need to use ROUNDUP everywhere you've got a weed, brush, trimming or edging problem. Spray with confidence — REMEMBER THE ROUNDUP.

Always read and follow label directions for Roundup® herbicide. Roundup® is a registered trademark of Monsanto Company. © Monsanto Company 1989 RIP-9-201-D

Monsanto

For complete information on the many benefits of Roundup herbicide for Parks and Recreational facility managers, call toll-free

1-800-225-2883

Circle No. 142 on Reader Inquiry Card

AS I SEE IT...

From the other side of Earth: Can we talk?



If you take for granted your ability to communicate with those around you, then attending the 6th Annual International Turfgrass Research Conference (ITRC) in Tokyo last month would have been eve-opening. Not only would you have enjoyed papers delivered by the world's preeminent turfgrass researchers, vou'd have seen the awesome power of communication working (or, in some cases, not working),

For the first time, the ITRC's host was a nation on the mysterious, often misconceived continent of Asia. Though relative newcomers to turf research, the Asians appeared to pursue turf knowledge as diligently as they have other scientific fields once thought to be the private domain of Western civilization.

Still, the cultural barriers between lands were evident, most notably language. Though translators performed admirably within classroom walls, the informal "corridor conversations" so important in a gathering of this type had a distinct East/West feel—as in East on one side of the corridor and West on the other.

It is apparent that our nations have a long way to go toward fully understanding each other. The blending of our cultures will continue to progress in step with today's global economy. Perhaps the most important element in maintaining positive relations during that progression will be a continued effort to improve communication, to overcome the momentary frustrations many of us may experience.

Perhaps one day landscapers in Okayama and Oklahoma will be equally interested in our Buyers' Guide, presented to you this month. Each will benefit from an easy-to-use, comprehensive listing of the companies that provide the instruments necessary to do a job properly. Until then, we're glad we can bring you the 1989 "North American" Buyers' Guide. Think of it as a way to get your hands on the tools and information you need to beautify wherever it is you call home.

Will Perry, managing editor

EDITORIAL STAFF

Jerry Roche, Executive Editor Will Perry, Managing Editor Terry McIver. Associate Editor Office: 7500 Old Oak Blvd. Cleveland OH 44130 (216) 243-8100 FAX (216) 826-2832

MARKETING STAFF

Dick Gore, Publisher Office: 3475 Lenox Rd. N.E. Suite 665 Atlanta, GA 30326 (404) 233-1817 FAX (404) 261-7022

Jon Miducki, National Sales Manager Marsha Dover, Midwest Sales Manager Barbara Thomas, Eastern Sales Manager Bob Earley, Group Vice President Office: 7500 Old Oak Blvd. Cleveland, OH 44130 (216) 243-8100 FAX (216) 826-2832

Robert Mierow. W. Coast Representative Office: 1515 NW 51st Street Seattle, WA 98107 (206) 783-0549 FAX (206) 784-5545

Tom Greney, Senior Vice-President Office: 111 East Wacker Drive Chicago, IL 60601 (312) 938-2317 FAX (312) 938-4850

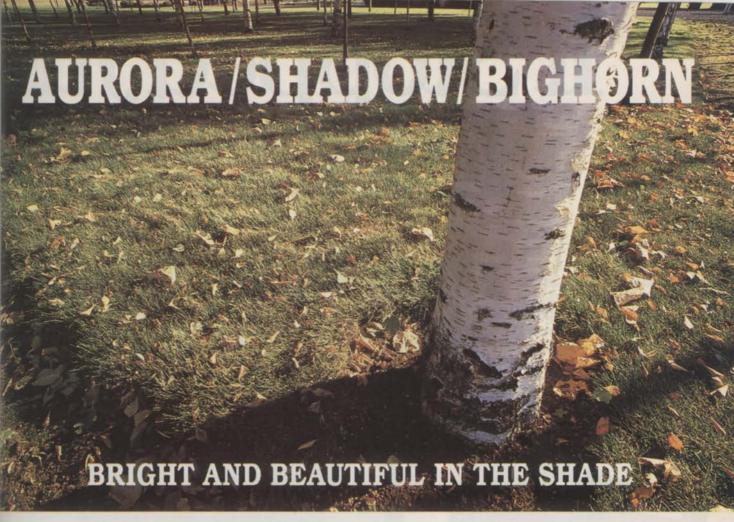
SUPPORT STAFF

Carol Peterson, Production Mgr. Marilyn MacDonald, Prod. Supervisor Lynn Williams, Graphic Design Jackie Eisenmann, Circulation Super. Bonnie DeFoe, Directory Coordinator Gail Parenteau, Reader Service Mgr. Office: 120 West Second St. Duluth, MN 55802 (218) 723-9200 FAX (218) 723-9223

David Komitau, Graphics Coordinator Ted Matthews, Promotion Director Office: 7500 Old Oak Blvd. Cleveland, OH 44130 (216) 243-8100

400410

Robert L. Edgell, Chairman; Richard Moeller, President; Lars Fladmark, Executive Vice President; Arland Hirman, Vice President/Treasurer; Thomas Greney, Senior Vice President; Ezra Pin-cus, Senior Vice President; Joe Bilderbach, Vice President; James Gherna, Vice President; George Glenn, Vice President; Harry Ramaley Vice President.



Aurora Hard Fescue, Shadow Chewings Fescue and Bighorn Sheep Fescue... three shade and drought tolerant fine fescues for golf courses, parks, home lawns, roadsides and reclamation areas.

Aurora, Shadow and Bighorn have consistently topped fine fescue turf trials, and have years of 'experience' in low maintenance and high percentage shade areas.

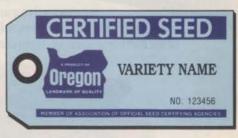
These fescues mix well with perennial ryegrasses and Kentucky bluegrasses for use in sod production and golf courses; Aurora and Bighorn in the roughs and Shadow on the fairways.

When seeded in a monostand, our fescues will help give a course the 'Scottish links' look around tees and in roughs, and blue-grey Bighorn adds another color dimension to course design.

Low growing Aurora, Shadow and even shorter growing Bighorn require less mowing, making them ideal for roadsides and other low maintenance areas.

All-in-all, when your turf area is in the shade, where water, nutrients and maintenance are costly, it'll pay you to look into Aurora, Shadow and Bighorn . . . the good look in fine fescues.

Aurora, Shadow and Bighorn qualify for Turf-Seed's blue tag incentive program. Write us or call your seed distributor for details.



Aurora PVP 8700070 Shadow PVP 8100155 Bighorn PVP Applied for

Produced and Marketed by



P.O. Box 250, Hubbard, OR 97032 503/981-9571 TWX 510-590-0957

CALL TOLL-FREE 800-247-6910 OUTSIDE OREGON 800-247-6910

Circle No. 164 on Reader Inquiry Card

It Stopped Just To Have Its P



The Toro 450-D gives you protection against hydraulic fluid leaks. Wherever possible, hoses have been replaced with strong steel lines and O-ring seals protect connections. A hydraulic warning system flashes an alarm when the fluid level drops. For easy servicing, test ports for the hydraulic system are right on the side of the machine.

and 7-bladed reels, rollers and thatching reels.

NEW TO

The Toro Company, Commercial Marketing Services, 8111 Lyndale Ave. So., Minneapolis, MN 55420.

Long Enough cture Taken.





Toro's exclusive variable clip control allows you to calibrate reel speed and mowing speed to give you the highest quality of cut in varying course conditions. Combine that with faster mowing speeds, up to 7.5 mph and 12.5 mph transport speed, and you're going to witness an increase in productivity. All controls are in easy reach of the operator to provide greater comfort.

The 450-D is designed with its weight evenly distributed around a center-mount 50 hp engine for better balance. This means more uphill climbing ability than other machines and

better traction.



Compared to tractor gang mowers, the Toro 450-D weighs less and is equipped with wide 31-inch tires that spread the weight for the lowest PSI, further minimizing turf marking.

more beautiful results, call your local Toro distributor for a demonstration of the Reelmaster 450-D or contact Toro at the address below. A machine built from the ground up with proven Toro design experience. And that translates into the kind of productivity no one can argue with.

That Keep You Cutting.

"Toro", and "Reelmaster" are registered trademarks of The Toro Company. @1988 The Toro Company.

GREEN INDUSTRY NEWS

SEPTEMBER 1989, VOLUME 29, NUMBER 9

LANDSCAPE MANAGEMENT

TREES

Popular 'Treaty Oak' faces uphill struggle for survival

AUSTIN, Texas — The probable destruction of a 500-year-old oak tree has caused an outpouring of sympathy from 48 states and 18 countries.

"Cards and letters from all over the world cross my desk," says Austin city forester John Giedraitis. "They all have the same theme: get well soon."

Those affections, however, apparently have not been enough to save the venerable "Treaty Oak."

The tree rests in Caldwell Treaty Oak Park. Paul Cullen, an alleged occultist, is awaiting trial for its poisoning. He faces a possible sentence of up to 10 years in jail and a fine of up to \$10,000 for criminal mischief, a felony.

"All over the world, people are watching this," says Giedraitis, who—more than anyone—has been flooded with phone calls from newspapers, magazines and the electronic media. "Right now, this is the most famous tree in the world."

The tree's plight has been followed by the New York Times, USA Today and the Associated Press. Giedraitis himself has appeared on ABC-TV's "Good Morning America."

Unfortunately, the tree is dying a slow death.

Soil samples indicate a massive poisoning from an overdose of DuPont's Velpar herbicide, which penetrated as far as three feet under the soil surface.

Giedraitis has worked on advice from scientists at DuPont and tree experts from all over the country (including Dr. Jack Siebenthaler of the American Society of Consulting Arborists) to save the tree. Most recently, 18 irrigation heads that pump springwater around the crown were installed to sterilize the soil.

"Tissue samples indicate the level of poison going down," Giedraitis says, "but it's not going down fast enough. It's kind of like a race we're losing.

"The tree is dangerously close to the end, even though we really won't know until next spring."

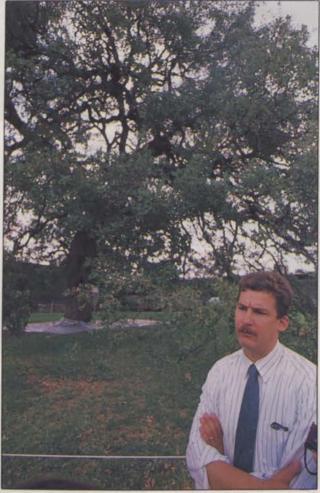
He notes that tests indicate good starch reserves in the root system. "We're hopeful the carbohydrates will move up the stem into the remaining buds," he says.

More than \$63,000 most of it donated by billionaire industrialist H. Ross Perot—has been spent to save the massive tree. The total bill is expected to reach \$75,000, Giedraitis says.

The City of Austin bought the Treaty Oak from Earl Caldwell Sr. in 1937 with donations from the city's schoolchildren.

Since that time, Caldwell's Landscape Service Company has pruned it free of charge. The company is now under second-generation ownership.

The original Caldwell's



John Giedraitis has done everything possible to save the "Treaty Oak," an endangered Austin historical landmark. (Photo by Mike Boroff of the Austin Statesman-American)

son, Earl Jr., says he's kept his company out of the media spotlight because of its love for the tree.

"It's a very sad thing," notes Earl Jr. "It was a magnificent tree. Now it's dead, (the victim of) a demonic act by a mentally deranged person."

Adds Giedraitis: "That shadowy figure sealed the fate of the tree. But the real story is the outpouring of love and affection by people all over the world."