

# TECHNICAL for Landscape Professionals REFERENCES



## Interior Landscape Design

by Nelson Hammer, ASLA

LSM-BK-800 .....\$65.00  
This reference discusses the basic principles of interior landscape design and covers such topics as tree planting, designing large

planting beds, balcony plantings, cost estimation, natural and electric lighting, irrigation and more. Particularly useful to those in the field are five case studies which demonstrate design and construction processes for an interior landscape project. 288 pages, hardcover.



## Urban Trees A Guide for Selection, Maintenance, and Master Planning

by Leonard J. Phillips, Jr.

LSM-BK-801 .....\$37.00  
This complete guide to urban tree care and planning covers

everything from new methodologies for cataloging existing trees to selecting the right species for your climate and site to running a high-power, cost-saving maintenance program and much more. Landscape architects, urban foresters, municipal administrators and students will learn how to develop effective municipal street tree master plans, take street tree inventory, choose the best trees for a community, care for trees and promote public awareness. 273 pages, hardcover.



## The Process of Landscape Design

by Seamus W. Flör

LSM-BK-802.....\$40.00  
Five completed projects

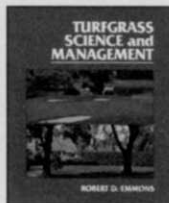
illustrate the general principles followed by landscape architects in developing designs from concept to implementation. Each case includes a summary of the principles which generated the design; a study of the architect's response to special conditions; a description of the stages of development; and an assessment of performance since completion. The five projects cover: landscape planning, urban regeneration, new town development, university campus and recreational development. 160 pages, hardcover.



## Landscape Architecture A Manual of Site Planning and Design

by John Ormsbee Simonds

LSM-BK-803 .....\$73.00  
Written for landscape architects, architects, planners and engineers, this book features descriptions of proven procedures, includes useful charts, tables, checklists and teaching diagrams, and offers innovative ideas and fresh thoughts of direct application in the design studio, drafting room and field. 331 pages, hardcover.



## Turfgrass Science and Management

by Robert D. Emmons

LSM-BK-805 .....\$37.50  
Intended for turfgrass managers and students, this text discusses the establishment and maintenance practices used by successful turfgrass managers and reviews relevant scientific theory as well as practical management skills. 451 pages, hardcover.



## Landscaping Principles & Practices 4th edition

by Jack E. Ingels

LSM-BK-806 .....\$29.95

This introductory text leads the landscaping student from the basic principles of landscape design and graphics, through methods of installation and maintenance, to the business methods of beginning the business, bidding and cost estimating. 401 pages, hardcover.

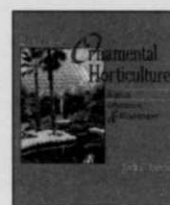


## Soil Science & Management Second Edition

by Edward J. Plaster

LSM-BK-804 .....\$39.95  
This text introduces the reader to the soil and water resources

of the United States, presents soil science theory as it applies to soil use by the grower, shows how soil is used by farmers and horticulturists, and covers the basics of soil and water conservation. An instructor's guide, summaries of each chapter and review questions are provided. 514 pages, hardcover.



## Ornamental Horticulture Science, Operations & Management 2nd Edition

by Jack E. Ingels

LSM-BK-807 .....\$40.95

Offering a balanced study of ornamental horticulture as an applied science, a craft, a profession and a business, this introductory text reviews plant structure, the role of soil, the plant classification system, growth regulators, reproduction, and pests and their control. Floral design; the interior use of plants; landscape design, installation and maintenance; turf selection, establishment and maintenance; and techniques of plant propagation are also examined, along with the floriculture, nursery and landscape industries, greenhouse and nursery production techniques and business considerations. 554 pages, hardcover.



## Landscape Plants Their identification, Culture, and Use

by Ferrell M. Bridwell

LSM-BK-808 .....\$49.95

The text is invaluable in assisting students, nursery workers, landscape architects, educators and others in identifying landscape plants. More than 450 ground covers, vines, shrubs, trees, grasses, palms and bamboos are depicted in full color with physical descriptions, geographic growth zone information, pest problem data and other details. 560 pages, hardcover.



## Managing Turfgrass Pests

by Thomas L. Watschke, Peter H. Dermoeden & David J. Shetlar

LSM-BK-766 .....\$69.95

Emphasizing the philosophy of minimizing pests through well-defined and organized cultural practices, this book contains specific recommendations for a number of pests. Turfgrass weeds, diseases, insects, invertebrates and vertebrates are described and cultural, biological, mechanical and chemical solutions are provided. 361 pages, hardcover.

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## The best thing to do is have the soil analyzed.

Potassium plays a vital role in plant nutrition, and deserves more attention in many fertility programs.

Research continues to demonstrate the importance of maintaining high potassium levels throughout the growing season. Potassium is recognized for enhancing turf tolerance to various environmental and biological stresses, including cold, traffic, disease and drought tolerance.

A nitrogen to potassium ratio of 3:2 has generally been considered desirable. However, higher potassium ratios to nitrogen, such as 1:1 or 1:2 have improved stress tolerance in some investigations, even when soil tests indicate potassium levels are adequate.

**Watch for rapid change.** Potassium is highly water soluble and subject to rapid leaching both within the leaf tissues and

in soils with low cation exchange capacities. Potassium deficiencies can occur just a few days following a fertilization especially on intensely-managed, irrigated turf growing in sandy soils.

Light, frequent potassium applications with slow-release carriers helps to reduce potassium leaching in these situations.

**Soil tests revealing** The best way to know a soil pH, overall nutrient status and soluble salt content is to have the soil analyzed. Most state universities have soil testing laboratories and provide this service at a reasonable cost. Commercial testing labs are also available. Several soil pH and leaf tissue test kits can be purchased for immediate on-site readings.

There are many choices for the turf manager developing a spring fertility strategy. The challenge is to select one that best suits the turf's needs in your management program.

—Dr. Roberts is an extension specialist in turf science at the University of New Hampshire.

## Learn to identify snow molds

by Joe Rimelspach

■ As snow and ice melt away and spring weather arrives, home owners will have many questions about the condition of their lawns and how to help them recover from the harsh winter weather. Many lawns will see symptoms of snow mold.

These fungi commonly grow where there is snow cover or during cool, wet periods of winter and spring. All cool-season grasses are susceptible, and many bentgrasses are highly susceptible. The two diseases may occur together or individually, usually extensively on lush turf with wet, unfrozen soil and snow cover.

**Symptoms**—Patches (more or less circular) may be a whitish-tan straw color from 1 inch to 3 feet in diameter, though they are usually 3 to 12 inches in diameter. Leaves are matted together and the patch appears sunken. When the patches are wet, they appear slimy; when dry, the texture is more like a crust of dead leaves.

During some periods, pink snow mold may have a slight pinkish color on the outer edge of the patch. Gray snow mold can be positively identified by the presence of sclerotia (small seed-like structures)  $\frac{1}{16}$  to  $\frac{1}{8}$  inch in diameter. Sclerotia are dark reddish-brown to black and found on leaves of diseased plants.

**Management**—To minimize damage:

1) Rake damaged turfgrass to let light and air into the crowns to encourage growth and recovery.

2) If the lawn is tall and has a lot of dead leaves, mow it short one time to remove dead grass and rake it away.

If areas are dead, renovation will be needed. Check the crowns or plants for life. Living crowns will be white and have a moist, healthy appearance. If you don't know about possible re-growth, take a section of damaged turf and try to grow it indoors to see if new leaves develop.

Spring applications may accelerate turf recovery. Follow all label instructions.

**For gray snow molds**—pentachloronitrobenzen (PCNB) or iprodione + chlorothalonil;

**For pink snow molds**—PCNB, iprodione, vinclozolin or thiophanate-methyl.

—The author is turfgrass extension pathologist at Ohio State University. He has more than 20 years experience with the lawn and landscape industry in the Midwest.

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 Team

# HOT TOPICS

## Weeds in hot water with new control technique

**MINNEAPOLIS**—Vigorous weed populations once resistant to traditional herbicide applications are in hot water because of a new control technology that uses a 900,000-BTU spray system fired by a 9 hp gasoline engine.

Weeds are doused with water heated to 210° F. This temperature destroys the plant's waxy coating, thus rendering it unable to retain moisture. The plant dehydrates and dies within one to two days.

Aquaheat Technology, Inc. markets the new weed control spray system, which weighs about 550 pounds and spits out 10 gpm of super-heated water. "It's something that can easily be put into a pickup truck or four-wheel drive vehicle," says operations manager Chapman Mayo. The product holds several patents and others are pending.

A larger, 4 billion BTU version of the device was originally designed for wide-scale vegetation control in Florida citrus groves, but railroad officials were attracted to the smaller system for its ability to eliminate weeds along track rights-of-way.

Others then took interest when it became apparent that the technology can be suitable for other landscape management applications.

Superintendents responsible for golf courses, parks, housing developments, schools and other institutions, local and state highways, military bases and irrigation districts wanted to know if the concept could be applied to their needs,

according to Mayo.

"The interest was so great for a smaller system that we developed one," says Mayo. "We feel that this product can be used in a cost-effective manner in a number of areas."

Mayo feels that the Aquaheat machine can be particularly effective in situations

toward lawns. "Steam is not as effective. We feel the hot water does a better job of effectively contacting the plant," says Mayo.

Mayo adds that in the Southwest, the machine is being used on a limited basis for dousing fire ant mounds, and to control aquatic weeds. "If [the weeds] stick

above water, we can burn them down to the water level," Mayo reports.

Tests are focusing on golf courses—using the device (with water heated to a cooler 150° F) to control surface insects. "We're watering the grass with hot water, basically," Mayo explains. Bugs near the surface are getting their gooses cooked, while the turf itself is not harmed. "We're not using a tremendous amount of water, so we're not soaking the lawn," he points out.

The New Jersey Department of Environmental Protection tentative-

ly has a positive review of the introduction of the device, according to the agency's Carmen V. Valentin.

"Hot water technology to control weeds is an effective tool that can be used as part of an integrated pest management approach," Valentin notes.

"In New Jersey, this technology has the potential for use in sensitive areas such as schools and parks, and areas where the application of herbicides can jeopardize the environment such as barrier islands or the shore areas," she adds.

The Garden State was introduced to the



**Smaller system allows turf managers to kill weeds with a totally new environmentally-friendly hot water bath.**

where the public is concerned about traditional pesticides. "Parks and schools are begging for alternatives to calm people down," he reports, stressing that the technology provides excellent weed control in addition to its ecological features.

A study conducted in New Zealand comparing the effects of hot water versus glyphosate showed that weeds treated with hot water were dead within two days, while those treated with glyphosate took 7 to 10 days for yellowing symptoms to appear.

The technology differs considerably from simply directing a steam cleaner

### ELSEWHERE

**Letters from sad, happy readers, page 56**

**Next generation of bio control?, page 58**

**Books, videos for green industry, page 60**

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 Confront

concept when Asplundh's Railroad Division tested the larger unit. Officials were impressed, according to Valentin.

"The treatment, which is the first of its kind for right-of-way weed control in New Jersey, showed immediate results as once vigorous weeds started to droop and wilt minutes after being sprayed with the hot water," she recounts.

"What made the demonstration even more dramatic is that the rail track had not been used in 13 years and was so overgrown with weeds that it was not visible at all before the treatment," according to Valentin.

Mayo holds high hopes the the technology will be a financial success: "There's a lot of interest from tons of markets."

—James E. Guyette

## GREEN INDUSTRY EVENTS

What's going on in the industry

### MARCH

**1: New Jersey Landscape '95,** Meadowlands Convention Center, Secaucus, N.J. Phone: (201) 664-6310.

**1-4: Outdoor Power Equipment Dealers Assn. annual meeting,** Sheraton Grand Torrey Pines, La Jolla, Calif. Phone: OPEDA, (215) 564-3484.

**2: Midwest Sports Turf Managers Association annual meeting,** Schaumburg (Ill.) Golf Club. Phone: 708) 439-4727.

**2-3: CalScape Expo 95,** Irvine (Calif.) Marriott Hotel. Phone: Mary Golden, (619) 723-9910.

**5: Tampa Bay Horticultural Trade Show,** Tampa (Fla.) Convention Center. Phone: Tampa Bay Wholesale Growers, (813) 960-1457.

**6-8: Massachusetts Turf Conference,** Springfield, Mass. Phone: (413) 549-5295.

**8: Professional Plant and Turf Conference,** sponsored by Nassau/Suffolk Landscape Gardeners Assn., Huntington (N.Y.) Townhouse. Phone: (516) 665-2250.

**11-14: Canadian Turfgrass Conference & Trade Show,** Ottawa Congress Center, Ottawa, Ontario, Canada. Phone: Canadian Golf Course Superintendents Assn., (905) 602-8873.

**14: Minnesota Sports Turf Managers Association meeting.** Phone: Mike McDonald, (612) 828-6525.

**15-16: Integrated Pest Management**

## Taking issue with editor's environmental perspective

To the editor:

With deference to your editorial piece in the December 1994 issue (p.1, "As We See It"), I am moved to respond as follows:

**1)** Contrary to your opinion regarding "oppressive government," laws governing the manufacture, sale and use of pesticides were in direct concern for an environment polluted with man-made toxic chemicals.

**2)** Thanks to EPA, FIFRA and OSHA, this country is on its way to protect us humans and the rest of God's creatures from being poisoned by our own hands.

**3)** The real entrepreneurs in this world are those individuals who accept our mistakes and strive to find remedies for our problems.

**4)** You must certainly believe in Santa Clause [sic.] if you think that the "market will regulate itself." If that were true, we wouldn't need half the laws on the books to protect the public from greedy individuals.

**5)** I do not want to renew my subscription.

Richard C. Fry  
Transylvania County  
(N.C.) Parks & Recreation

## Correcting reference to his company name

To the editor:

I enjoyed your article on Tom Delaney, "Lawn Care Industry Person of the Year." I have worked with Tom concerning lawn care issues and he is very deserving of the award.

I would have liked to frame the list of past recipients since our past owner/president, the late Jim Marria, was a past winner. I can't do this, though, because you have our company wrong. We are Perma-Green Lawn Care Co., one of the 15

in Landscapes Conference, Lolowna Lodge Hotel, British Columbia, Canada. Phone: Georgena Good, (604) 980-9735.

**15-16: Reinders Turf Conference,** Waukesha (Wis.) Expo Center. Phone: Ed Devinger, (414) 786-3301.

**17: Turf Management Seminar,** El Cajon Community Center. Phone: (619)

largest lawn care companies in the U.S. We are a 10-year-plus member of the PLCAA, but we do not build and sell spray equipment. Perma-Green Supreme is a completely different company.

Jim Marria needs to be remembered as the founder of our company.

Ben Miller  
Perma-Green  
Boise, Ida.

(We stand corrected.—Ed.)

## Says watch out for invasive perennials

To the editor:

This note is in reference to an article that appeared in your magazine in August 1994 on perennial plants. The information appeared on page 35 and apparently was taken from a book called Garden Design Ideas.

Under a listing for summer perennial favorites tolerating wet soil, purple losses-trife (*Lythrum salicaria*) is mentioned. Although there is a notation that plant is invasive, there is no mention of the fact that it is banned or about to be banned in 13 states due to the fact that it crowds out all other plants when it becomes established in wetlands.

Some plant varieties are currently being sold that are supposed to be sterile, but trials with these plants have shown that, in fact, very few of them are sterile. Thus, it is best not to promote or sell this invasive, non-native perennial.

It would be educational for your readers if your magazine could present an article about this plant and other plants that have "escaped" the yard to become a problem in the wild.

Catherine A. Bergens  
Indiana Dept. Natural Resources  
Indianapolis, Ind.

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## Cornell prof sees 'hybrid fungus' as next generation of bio-control

■ A new biological fungicide is expected to receive EPA registration this month, according to Dr. Eric Nelson of Cornell University.

The new strain—*Trichoderma harzianum*—is a product of protoplast fusion, a process analogous to plant breeding. In the process, different genetic material is combined to form what Nelson—speaking at the New York State Turfgrass Association Turf and Grounds Exposition—described as a “hybrid fungus.”

The new product will control Dollar spot, brown patch and pythium blight. Nelson described the product as, “A highly effective biological agent,” which can be applied with conventional equipment.

A new company called TGT—whose founders include Cornell researchers—will manufacture the product.

Initial product distribution will be limited to west of the Mississippi. The Wilbur Ellis Co., of Fresno, Calif. will distribute the product.

Nelson said the product is not without drawbacks: it's sensitive to Banner, Rubigan and the triazole fungicides, and is most effective when soil temperatures are above 55-60° Fahrenheit.

Additionally, Nelson said researchers do

## CHEMICAL VS. BIOLOGICAL PRODUCTS

	CHEMICAL	BIOLOGICAL
	<u>PRODUCT DEVELOPMENT</u>	
Research/develop.	\$20 million	\$0.8-\$1.6 million
Toxicology testing	\$10 million	\$0.5 million
Patentability	straightforward	risky
Discovery	undirected screens	directed screens
	large numbers	low numbers
	high success	success questionable
Profitable market	\$40 million/yr.	\$1.5-\$10 million/yr.
	<u>PRODUCT USE</u>	
Efficacy	high	moderate
Control spectrum	broad	narrow
Speed of action	typically fast	typically slow
Health/environmental effects	well-established adverse	unknown

Source: Dr. Eric Nelson

not know how the product will react to herbicides or insecticides.

The product is expected to be formulated as a wettable powder, a granule and emulsifiable concentrate.

Nelson said the product has a shelf life of 1-2 years.

In tests conducted on dollar spot from August to October, the product was most effective when applied as a granular in conjunction with a foliar spray.

“There is a delay in the progress of the disease, then it peters out,” says Nelson.

Nelson says that unlike the performance of some chemical fungicides, the new biological product can reduce the populations of pathogens in the soil.

Nelson says the product “worked well”

in spray applications to plots infected with Pythium and Rhizoctonia.

“One of the keys will be various additives—such as surfactants—that give the product better coverage,” says Nelson.

In the area of compost research, Nelson says it has been more difficult to predict how a compost mix will react against diseases in turfgrass.

“There's no good way of knowing that,” says Nelson, who says it's difficult to screen compost mixes for their disease suppression properties.

“We're trying to relate microbial properties (of compost) with disease suppression properties,” says Nelson. “Compost use will improve as we can manipulate the composts more.”

## DowElanco responds to 'Eye to Eye' criticism

**INDIANAPOLIS**—DowElanco took quick issue with points made in the Jan. 12th installment of the CBS television show “Eye to Eye with Connie Chung.”

“Nothing depicted on ‘Eye to Eye with Connie Chung’ should undermine the public confidence in DowElanco and its products,” the company stated in a press release the next day.

The show highlighted several people with health problems that they contend stem from the use of Dursban.

DowElanco makes clarifications in the cases of Jack Kahn, the residents of Building 8 (an office building in Albany, N.Y.), and Tri-County North School District in Ohio.

About Kahn, who claimed he was put out of a pest control job and out of the

workforce because of health problems stemming from his experiences applying Dursban:

“Mr. Kahn's medical records document that he was diagnosed—as early as...1984—as having neurological and immune disorders very similar to those which he now attributes to our product. His first exposure to Dursban was in 1989.”

About Building 8, whose residents claim adverse health effects from Dursban:

“According to the state Department of Health report, the highest levels of Dursban measured in Building 8 were 10,000 times lower than those needed to cause any effect in humans.”

And about the Ohio school children who complained of nausea and other negative reactions from the spraying of

Dursban in their school, DowElanco says this:

“DowElanco has not been named as a party in this suit. A health hazard evaluation by the National Institute of Occupational Safety and Health found that the complaints were likely related to carbon dioxide buildup...in combination with the presence of volatile organic compounds derived from liquid toner used in photocopiers.”

DowElanco concluded:

“We are cooperating fully with the U.S. EPA. We are confident that the Agency's review will reaffirm the wide margin of safety of Dursban products. DowElanco hopes to see the issues raised in the ‘Eye to Eye’ segment resolved by the EPA review.”

—Jerry Roche



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**Bobcat Trenchers.** Two trencher attachments are now available for a variety of landscape applications. The LT204 (pictured), is designed for standard flow hydraulics and features 2' to 3' trench depth, with 4' to 12" width. The new LT405 is designed for high-flow use and features 3' to 5' trench depth, 5' to 12" width. Both offer hydraulic sideshift, optional trench cleaner.

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**TORELLO'S TEXT...**The "Journal of Turfgrass Management" is now available from the Haworth Press. Written by Dr. William Torello of the University of Massachusetts, the quarterly publication costs \$36-\$60, depending on your classification, for four issues. To order, call (800) 342-9678 or fax (607) 722-6362.

**WRONGFUL TERMINATION...**A new book from Nolo Press reveals the strategies you can use for legally hiring and firing in the lawsuit-happy '90s. The 362-page paperback, called "Rightful Termination," costs \$29.95. To order, call (800) 992-6656.

**CHEMICAL REFERENCES...**Updated versions to two popular chemical references are now available to the green industry. "Turf & Ornamental Chemicals Reference" from C&P Press includes the EPA's official version of the Worker Protection Standard how-to-comply guide, along with 321 product labels and MSDSs. To order either the hardbound book (\$69) or 3½-inch diskettes, phone (800) 544-7377. From Meister Publishing comes the new "Farm Chemicals Handbook '95," featuring 17,000 pesticides and fertilizers, plus pesticide and fertilizer dictionaries. Price is \$79. To order, phone (800) 572-7740.

**FIRST AID...**The Bureau of Business Practice has a new "Medical Emergencies First Aid Pocket Guide" that covers assessing emergency situations, setting priorities, keeping victims alive until help arrives, and administering first aid. Guides can be customized with your company imprint. For more information, phone (800) 916-9000.

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**FIELD ESPAÑOL...**The Landscape Horticulture Center for Personnel Development is selling "Conversational Field Spanish" to the green industry. With the manual, you will learn pronunciation and vocabulary, learn the names of tools and materials, and become familiar with everyday phrases for planting, irrigation and maintenance. Cost is \$29.95 including shipping and sales tax. Send to LHCPD, 3124 Gray Fox Land, Paso Robles, CA 93446 or phone (805) 238-7921.

**ENVIRONMENTAL RELATIONS...**The Monsanto Company is offering a free kit to help LCOs and landscapers convey facts about pesticide use from an environmental perspective. "Weeds Are No Longer Your Only Concern" is a kit that contains product-specific and non-commercial information for you to distribute to the public. To request a kit, phone (800) 332-3111.

**WATER FEATURES...**A new book from Garden Way Publishing features complete descriptions of more than 300 grasses, flowering plants, shrubs, trees, aquatic and floating plants that can be used in waterscaping features. "Waterscaping: Plants and Ideas for Natural and Created Water Gardens" costs \$27.95 for the

hardcover and \$18.95 for the paperback (Canada slightly higher). To order, call (800) 441-5700.

**TREE STUFF...**Two new publications are applicable to tree care. The "Handbook of Landscape Tree Cultivars," lists 1700 cultivars. In looseleaf notebook form, it costs "29.95 plus \$3.50 shipping and handling. To order, phone (800) 928-5887. Also, the ACRT Institute of Arboriculture and Urban Forestry has published a 234-page safety and training manual for utilities and line clearance contractors. It contains 14 chapters and 257 illustrations that enables you to meet all OSHA and ANSI requirements. The "Line Clearance Tree Trimmer Certification Manual" costs \$115. To place your order, phone (800) 622-2562.

**FOR GREEN GREENS...**Noted turfgrass manager Tom Mascaro has written a 397-page text entitled "Diagnostic Turfgrass Management for Golf Greens." The book contains more than 100 color photographs and a complete workbook with all necessary monitoring charts and instructions. To order, call Turfgrass Products Publications at (800) 258-7477.

**ENVIRONMENTAL CONSIDERATIONS...**RGF Environmental Systems is offering a free booklet titled "Environmental Guidelines for Golf Course Maintenance Facilities." Subjects include EPA laws, maintenance shop housekeeping, mix & load operations, storm water run-off and more. To order, phone RGF at (800) 842-7771.

**VIDEO TRAINING...**"Creating the Knowledgeable Operator" is one of a series of video-based training workshops covering the basics of ride-on golf course maintenance equipment. The 30-minute video includes step-by-step instructions, an instructor guide, training handbooks and assessment worksheets. For more information and a free preview tape, call (800) 938-4330.

**FIELD MAINTENANCE...**Renowned groundskeeper Floyd Perry now has a book titled the "Pictorial Guide to Quality Groundskeeping" for rec facility managers and maintenance supervisors. Perry calls it the most comprehensive grounds maintenance text available. Cost is \$32.60 plus \$3 shipping and handling (Fla. residents \$1.95 sales tax). To order, call (800) 809-3952.

**FOR LANDSCAPERS...**"Landscape Construction Procedures, Techniques and Design" by horticulture professor Floyd Giles includes more than 450 pictures. The third edition, which retails for \$28.80, includes new sections on gazebos, irrigation, fences, decks, boat docks and other topics. Send your order to Stipes Publishing, 10-12 Chester St., Champaign, IL 61820.

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