

Mosquito Control Superintendents Association, Nurserymen's Association, Tree Wardens & Foresters Association, New England Chemical Association, and New England Pest Control Association.

TRADE SHOW

Equipment exposition to display the latest

The International Construction and Utility Equipment Exposition (ICUEE), scheduled for Johnson County Industrial Airport near Kansas City, MO, will include the latest technology in utility service and construction equipment.

The 1981 exhibit on August 11-13 will contain telescoping and articulated cranes, aerial and digger derricks, underground construction equipment, and a number of other smaller tools and equipment related to utility service and underground construction industries.

This year's exposition will be the seventh and largest since 1966. For more information, contact: Rae Rupp, c/o ICUEE '81, Suite 1632, 333 North Michigan Avenue, Chicago, IL 60601, 312/332-2037.



President of the Maryland Turfgrass Council, John Strickland, presents a check for the MITF Turfgrass Research Fellowship Fund to Fred Grau, president of the Musser Foundation. The money came from the proceeds of the second annual Mid-Atlantic Turfgrass Booster's Tournament held last fall at the Baltimore C.C.

MARKETING

Group kicks off flower/plant promotion

Flower and plant producer associations from all parts of the country and abroad met in St. Louis recently to initi-

ate a research and promotion program for flowers and plants. Called Floraboard, the program focuses on market research, advertising, and promotion to spotlight uses of flowers and plants.

"These groups came to this meeting on March 11 to talk turkey," said Walt Preston, chairman of the Floraboard task force. Discussion by the twenty-eight associations represented centered on the role of producer groups in

the upcoming Floraboard program. According to the proposed Floraboard legislation, producer associations will be certified to select the nominees that will serve on Floraboard.

A high majority of the producer group representatives at the meeting indicated they would personally support Floraboard. More than a third of those present committed their associa-

Continues on page 54

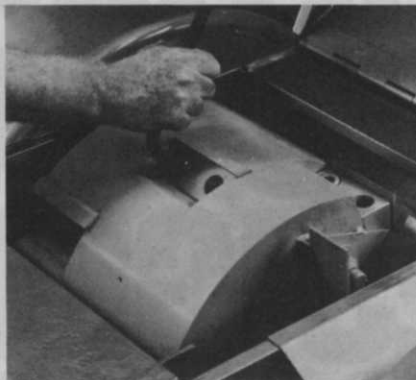
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for... less noise... more efficiency

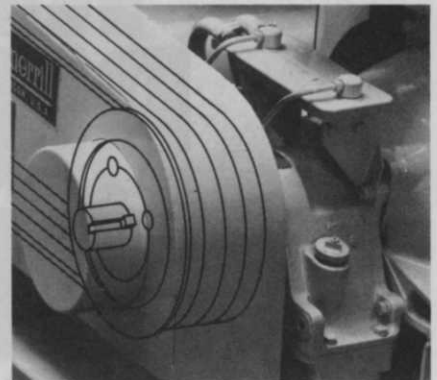


Applying engineering designs which "Sound Conditioned" our industrial scrap reduction machinery, Mitts & Merrill can modify our brush chippers for low noise levels. At the same time, those engineering features which have made Mitts & Merrill the leader for years have been retained.

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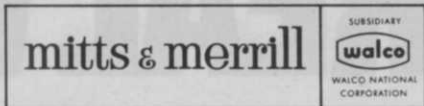


Staggered knife pattern, for years a Mitts & Merrill feature, has always resulted in a lower noise level. First, by segmenting the noise source. Second, through smoother cutting action. Third, by producing smaller chips.



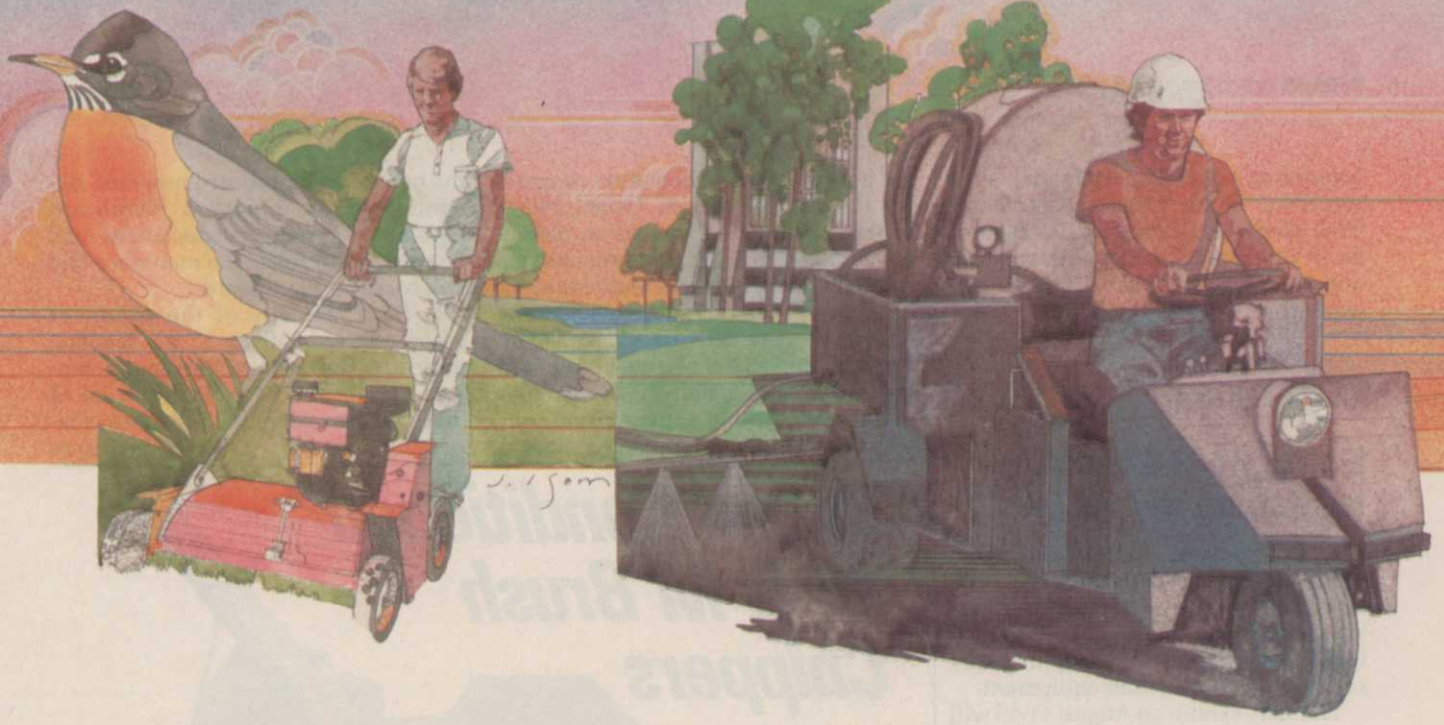
Optional torque converters and the heaviest steel cylinder — even without an external flywheel — combine to give positive cutting action under the most rugged conditions. Isolates the engine from shock. Minimizes maintenance.

Plus • Positive safety-lock pin for greater operator safety • Swing-away, folding feed chute protects cutting chamber; allows instant access and increases maneuverability • Heavy duty construction includes coil spring, torsion-type suspension, and box tubular steel frame.



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As a turf professional, you know all the tricks to making grass look terrific. You lavish water and fertilizer on it, overseed, apply herbicides, and take great care in mowing.

But times are changing. Increasingly you're finding yourself pinched by escalating costs for materials and labor. And there's a growing movement among environmentalists to lessen dependence on fertilizers.

Rugby Kentucky Bluegrass answers these problems.

YEARS OF TESTING.

Rugby is a new Kentucky bluegrass. But it's not unproven. Before it was ready to be introduced to you, years of extensive testing were performed under a broad range of climatic and soil conditions. Test sites were located not only in the United States, but Canada as well.

The results? Our testing has shown Rugby to be unique. It's a truly *different* variety from anything else on the market, with superior performance.

How is it superior? Read on.

A TRUE LOW-MAINTENANCE TURF.

The most singular advantage of Rugby is its ability to provide high-quality dark green turf when maintained at *low* nitrogen fertility and restricted moisture levels.

Most improved Kentucky bluegrass varieties are *not* low-fertility types. You may be told they performed well in turf trials. Unfortunately, you're *not* told that those trials are often conducted using *optimum* nitrogen levels. So it's no wonder you have to fertilize the heck out of these varieties to get good results.

Not so with Rugby. *You can actually get better results with Rugby than with other Kentucky bluegrass varieties while using less nitrogen fertilizer.*

And you'll also save on the *labor* it would take to apply that extra fertilizer and to do the extra mowing.

A HIGH-QUALITY TURF.

But no matter how much we tell you about the low-maintenance aspects of Rugby, ultimately you look for — and demand — *superior turf*. Your professional standards wouldn't settle for anything less. And we wouldn't want it any other way.

Rugby has a rapid spring green-up rate and excellent fall color. And it

also displays *sustained growth during the mid-summer heat stress period*, even under low nitrogen fertility and restricted moisture.

Moreover, Rugby possesses a high level of resistance to most of the common and current turfgrass diseases. This is another factor which may well result in significant savings in turf management costs.

THE ENVIRONMENTALIST'S GRASS.

Using less water and fertilizer means potential dollar savings for you, of course. But you can also take satisfaction in the fact you'll be using *fewer natural resources*.

By now you're well aware of the increasing social consciousness among the population in this regard. And by making available a Kentucky bluegrass that fits the world of the '80's, we believe we're fulfilling an important need.

For more information on Rugby, write Rugby Kentucky Bluegrass, P.O. Box 923, Minneapolis, MN 55440.

Rugby
KENTUCKY BLUEGRASS
For low-maintenance turf

tion's support to Floraboard on the spot, based on earlier contact with their boards and membership. The remaining associations are committed to getting responses from their associations soon.

GOLF

Superintendents must analyze water use

Faced with severe watering restrictions, golf course superintendents must collect records of actual water usage and persuade governing bodies who allocate supplies, says Palmer Maples Jr., CGCS, Golf Course Superintendents Association director of education.

"If you are required to cut back by a certain percentage, it is vital that you know where your water actually goes," says Maples. Your records should be broken down into course areas, priorities, and a weekly and monthly schedule.

Next, Maples suggests establishing the impact of your golf course and those around you on the economy of your

area. It is very important that you be able to show that your golf course and golf community are industries, which, if severely curtailed, could cause a significant impact on the local economy in terms of jobs, taxes, and revenue loss. It is also important to show that the economic hardship would not be limited to one club or a group of clubs.

"Use the economic impact not as a hammer but as a base to seek changes in any unreasonable situation," says Maples. "Offer to do your part as other industries are doing theirs. This approach will demonstrate the concern of the golf industry and its readiness to cooperate in a time of restricted water use."

As the situation worsens, political action by superintendents may become a necessity. In 1977, golf courses in the Monterey, CA area were able to show that severe restrictions on watering would lead to wide-ranging economic hardships on the tourist-dependent local economy. And today, New Jersey golf course superintendents are spearheading two statewide coalitions aimed both at relaxing the restrictions and educating the public.



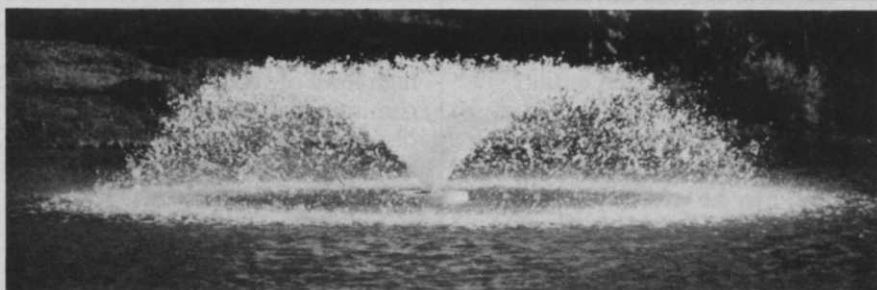
The National Arborist Association elected new officers and directors at its annual meeting. Seated from left to right are: Robert Mullane, secretary, White Plains, NY; Eric Haupt, president-elect, Sheffield, MA; Walter Money, president, Rockville, MD; Lee Lesh, vice president, Saratoga, CA; and Neil Engledow, treasurer, Indianapolis, IN. Standing from left to right: Bruce Walgren, immediate past president, West Hartford, CT; Robert Bartlett, director, Stamford, CT; Frank Harder, director, Hempstead, NY; William Owen, director, Portland, OR; and George Tyler, director, Amherst, NH.

AWARDS

Anheuser-Busch gets energy award

Anheuser-Busch Companies, Inc., has received the President's Award for Energy Efficiency for a project which daily recycles one million gallons of effluent from the company's Jacksonville brewery that were formerly sent to the city's waste treatment facilities. The liquid brewery waste, high in nutrients, is piped one mile north of the brewery to a 300-acre site, where it is used as a fertilizer in the growing of company-owned turf.

The land application project consumes 10 percent of the energy required by conventional waste water treatment. Furthermore, the use of nutrients in growing turf reduces fertilizer costs, as well as the amount of energy needed to produce fertilizer. Another advantage is that the brewery by-product streams supply the land with essential irrigation water.



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LETTERS

Lindane wording unclear

I believe that the wording in your short news article on lindane, which is found on page 48 of your January issue, gave a mistaken impression of the status of the Lindane RPAR and Zoecon's evaluation of the safety of this important insecticide. I have enclosed for your information a news release prepared by Zoecon, and also a short article from *Pest Control Magazine* (p. 56), February 1981, which I believe summarizes the Scientific Advisory Panel Meeting accurately and concisely.

I would be very happy to supply any more information on the status of the Lindane RPAR if you would find it useful.

Terry L. Burkoth, Ph.D.
Director of Product Development
Zoecon Corporation
Palo Alto, CA

The Science Advisory Panel made these recommendations to the EPA:

Household use of Lindane should be cancelled immediately in treated shelf paper and floor waxes; on pets; and as ornamental applications.

Preparations containing Lindane should be available only to licensed veterinarians, commercial ornamental applicators, registered pest control operators, and certified livestock applicators only with full warning label cautions and full protective clothing as proposed by EPA.

Uses on pineapples should be retained with warning label cautions. Uses on cucurbits, avocados, pecans, Christmas trees, and hardwood logs and lumber should be continued under restricted classification with such labels and protective clothing. Similar restrictions should be required for certified operators using Lindane in bark beetle control or seed treatment.

A three-generation reproductive study should be performed on an appropriate laboratory animal to determine whether Lindane interferes with reproductive processes.

Proper pruning cuts

The following is in relation to the comments made on pruning cuts in the April issue.

Practicing arborists have long recognized the value of the heal collar. The problem of the flush cut evolved from the old practice of stub cutting when pruning or reducing the size of trees.

Since trees are individuals and have different growth habits, it is hard to train men just where and what degree to cut.

With the advent of the chain saw, slab cutting became easier. In the past no tree skinner worth his salt, working with a hand saw, would make a cut twice as large as necessary. In this age of mechanical pruning, better training and supervision must be used to reach a happy medium.

Freeman L. Parr
Horticultural Consultant
(Tequesta, Florida)

Missing references

While looking for a citation in Dr. Richard Smiley's article on thatch (April 1981), I found that his reference section was truncated and the last two references were deleted. I am sure both Dr. Smiley and other readers would appreciate it if you print these in a future issue. The two references are: "Whitehead et al 1979" and "Waite and Gorvod 1959."

Thank you,
Julie Welch (Bureau of Solid Waste)
Madison, Wisconsin

Terribly sorry. The citations are:
Waite, R., and A.R.N. Gorrer. 1959. *The comprehensive analysis of grasses. Journal of the Science of Food and Agriculture* 10:317-326.

Whitehead, D.C., H. Buchan, and R.D. Hartley. 1979. *Composition and decomposition of roots of ryegrass and red clover. Soil Biology and Biochemistry* 11:619-628.

Interested in mowing

Enjoy your magazine. We maintain above 325 acres of turf for industrial business and the city of Syracuse. Would like to see an article on "contract mowing" done in your magazine.

Ted Stetler
Marcellus Nursery Inc.
Syracuse, NY

Thanks for your suggestion. We agree and are working on this subject for a future issue.—Ed.

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by Terry Tattar

Because shade trees require specialized maintenance rarely used in the forest, this text seeks to aid the arborist in providing necessary care to maintain vigor and prevent shade tree diseases. An in depth look at infectious and non-infectious tree diseases. Plant pathology not necessary. \$23.50



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Covers principles and practices of greenhouse flower crop production, emphasizing response of flower crops to greenhouse environmental factors. General coverage of factors determining these conditions with illustrations. \$28.95



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by Louis L. Pyenson

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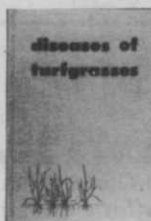
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by Houston Couch

Reference for identification and control of fungus and nematode-incited diseases. This 2nd edition features new varieties of potentially hazardous turfgrass diseases, also pesticide regulation changes and more efficient fungicides on the market.

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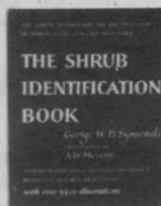


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EVENTS

The current issue of **WEEDS TREES & TURF** carries meeting dates beginning with the following month. To insure that your event is included, please forward it, 90 days in advance, to: **WEEDS TREES & TURF Events, 757 Third Ave., New York, NY 10017.**

Aquatic Plant Management Society annual meeting, Coliseum Ramada Inn, Jackson, MS, **July 12-15.** Contact Lou Guerra, Texas Parks & Wildlife Dept., 134 Braniff, San Antonio, TX 78216, 512/349-2174.

Grower's Seminar, San Jose, CA, **July 14.** Contact Lanny E. Walker, Public Relations Director, California Association of Nurserymen, 1419 21st Street, Sacramento, CA 95814, 916/448-2881.

American Sod Producers Association Summer Convention & Field Days, Hershey Motor Lodge & Convention Center, Hershey, PA, **July 15-17.** Contact ASPA, Bob Garey, Executive Director 9th & Minnesota, Hastings, NE 68901, 402/463-4683.

American Association of Nurserymen 106th Annual Convention and Trade Show, Stouffer's Cincinnati Towers, **July 18-22.** Contact AAN, 230 Southern Bldg., Washington, D.C., 20005.

Plant Maintenance Symposium, Michigan State University, **July 28.** Contact Prof. Harold Davidson, Dept. of Horticulture, Horticulture Building, East Lansing, MI 48824.

Society of American Florists 1981 convention, Denver Hilton, Denver, CO, **July 29-Aug. 1.** Contact Barbara Kratchman, Society of American Florists, 901 North Washington Street, Alexandria, VA 22314, 703/836-8700.

American Phytopathological Society Annual Meeting, New Orleans, **Aug. 2-6.** Contact Steven Nelson, Convention Services, APS, 3340 Pilot Knob Rd., St. Paul, MN 55121, (612) 454-7250.

Sixth Nebraska Turfgrass Field Day and Equipment Show, **Aug. 4.** Con-

tact Dr. Robert Shearman, University of Nebraska, 377 Plant Science Bldg., Lincoln, NE 68583, 402/472-2550.

Turf Field Day, University of Missouri South Farms, **Aug. 4.** Contact John Dunn, Horticulture Dept., University of Missouri, Columbia, MO 65211, 314/882-7838.

Ohio Turfgrass Research Field Day, Ohio State University Turfgrass Research Field Facility, Columbus, OH, **Aug. 4.** Contact Dr. Keith Karnok, 1827 Neil Avenue, Columbus, OH 43210, 614/422-2591.

Plant Growth Regulator Working Group 8th annual meeting, St. Petersburg Beach and Don Cesar Hotel, St. Petersburg, FL, **Aug. 4-6.** Contact Dr. L. H. Aung, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, 703/961-6511.

Illinois Landscape Contractors Association Summer Field Day, D. Hill

Mon. A.M.



Mon. P.M.



Nurseries, Union, Illinois, **Aug. 5.** Contact Lucille Little, 202 W. Main St., PO Box 1049, St. Charles, IL 60174, (312) 584-5770.

ILD Interior Maintenance Technician's Short Course, Camelback Inn, Scottsdale, AZ, **Aug. 6.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102. 703/821-8611.

ILD Interior Maintenance Technician's Short Course, Denver, CO, **Aug. 8.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102, 703/821-8611.

International Society of Arboriculture Convention, Boyne Mountain Resort, Boyne Falls, Michigan, **Aug. 9-12.** Contact E.C. Bundy, ISA, PO Box 71, 5 Lincoln Square, Urbana, IL 61801, (217) 328-2032.

Central Plains Turf Foundation/Kansas State University Turf Field Day, Manhattan, KS, **Aug. 12.** Contact Dr. Robert Carrow, Kansas State University, Dept. of Horticulture, Waters Hall, Manhattan, KS 66506, 913/532-6170.

Maine Nurserymen's Association summer meeting, Western Maine Forest Nursery Co., Fryeburg, ME, **Aug. 12.** Contact Rick Churchill, Executive Secretary, Plant & Soil Dept., S.M.V.T.I., So. Portland, ME 04106, 207/799-7303.

Residential Landscape Design Course I, Marriot North, Dallas, TX, **Aug. 12-14.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102, 703/821-8611.

Massachusetts Nurseryman's Association summer meeting, Stewart's Nursery, Turners Falls, MA, **Aug. 19.** Contact Deborah Fanning, Executive Director, Massachusetts Nurseryman's Association, 715 Boylston Street, Boston, MA 02116.

Irrigation Association of New Jersey 7th annual field day, Reed's Sod Farm, Princeton Pike, Princeton, NJ, **Aug. 20.** Contact Linda Erickson, Administrator, P.O. Box 138, Dayton, NJ 08810, 201/329-6003.

American Association of Botanical Gardens and Arboreta midwest chapter, Dow Gardens, Midland, MI, **Aug.**

20-22. Contact The Dow Gardens, 1018 W. Main St., Midland, MI 48640, 517/631-2677.

Dollar Management Seminar, Executive Inn, Seattle, WA, **Aug. 21-22.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102, 703/821-8611.

International Garden Centre Congress, Disneyland Hotel, Anaheim, CA, **Aug. 24-30.** Contact Pat Redding, GCA, 230 Southern Bldg., Washington, DC 20005.

Grower's Tour, **Aug. 25.** Contact Richard Staples, Program Administrator, California Association of Nurserymen, 1419 21st Street, Sacramento, CA 95814, 916/448-2881.

University of Rhode Island Turfgrass Field Day, Kingston, RI, **Aug. 26.** Contact C.R. Skogley, University of Rhode Island, Dept. of Plant Science, Woodward Hall, Kingston, RI, 02881, 401/792-2570.

Northern Michigan Turf Managers Association meeting, Gaylord, MI, *Continues on page 60*

Tues. P.M.

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Events from page 59

Aug. 26. Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-9274.

Ornamentals Northwest Seminars, Oregon State University, Portland Memorial Coliseum Portland, OR, **Aug. 28-29.** Contact Dr. James L. Green, Oregon State University, Dept. of Horticulture, Corvallis, Oregon 97331, 503/754-3464.

ILD Interior Landscape Conference, Hyatt Hotel, Atlanta, GA, **Sept. 9-12.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102, 703/821-8611.

Garden Industry of America Conference & Trade Show, Pittsburgh Convention/Exposition Center, Pittsburgh, PA, **Sept. 10-12.** Contact GIA, Box 1092, Minneapolis, MN 55440.

Alabama's Annual Turfgrass Conference, Auburn, AL, **Sept. 14-15.** Contact K. M. Sheffer, Extension Hall, Auburn University, AL 36849, 205/826-4985.

Tree Foreman Training, Kent, Ohio, **Sept. 14-25.** Contact Richard Abbott, Davey Environmental Services, 117 S. Water St., Kent, OH 44240, (216) 673-9511.

Northern Michigan Turf Managers Association meeting, Acme, MI, **Sept. 15.** Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-9274.

National Lawn and Garden Distributors Association annual conference, Opryland Hotel, Nashville, TN, **Sept. 15-18.** Contact Nancy Irving, NLCDA, 1900 Arch St., Philadelphia, PA 19103, 215/564-3484.

Virginia Tech Turfgrass Field Days, Blacksburg, VA, **Sept. 15-17.** Contact Dr. John Hall, 421 Smyth Hall, Virginia Tech, Blacksburg, VA 24061, 703/961-5797.

Management Information System Seminar, Los Angeles, CA, **Sept. 16-17.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102, 703/821-8611.

Management Information System Seminar, Executive Inn, Seattle, WA, **Sept. 18-19.** Contact ALCA, 1750 Old Meadow Road, McLean, VA 22102, 703/821-8611.

Pacific Horticultural Trade Show, Long Beach Convention Center, Long Beach, CA, **Sept. 23-25.** Contact Lanny E. Walker, California Association of Nurserymen, 1419 - 21st Street, Sacramento, CA 95814, 916/448-2881.

Northwest Turfgrass Conference, Olympia, WA, **Sept. 28-Oct. 1.** Contact Dr. Roy L. Goss, Northwest Turfgrass Association, Western Washington Research and Extension Center, Puyallup, WA 98371, 206/593-8513.

Central Coast Turf Day, California Polytechnic State University, San Luis Obispo, CA, **Oct. 1.** Contact Ronald D. Regan, Head, Ornamental Horticulture Department, CPSU, San Luis Obispo, CA 93407, 805/546-0111.

Horticultural Tour to China, Oct. 5-18. Contact Lanny E. Walker, Public Relations Director, California Association of Nurserymen, 1419 21st Street, Sacramento, CA 95814, 916/448-2881.

Northern Michigan Turf Managers Association meeting, Pinconning, MI, **Oct. 6.** Contact C. E. "Tuck" Tate, President, NMTMA, 1147 Santo, Traverse City, MI 49684, 616/947-9274.

Central Plains Turf Foundation/Kansas State University Turf Conference, Manhattan, KS, **Oct. 6-8.** Contact Dr. Robert Carrow, Kansas State University, Dept. of Horticulture, Waters Hall, Manhattan, KS 66506, 913/532-6170.

1981 Chemlawn Turf Symposium, **Oct. 14-15.** Contact Dr. B. G. Joyner, Plant Diagnostic Lab, Chemlawn Corporation, 6969 Worthington-Galena Road, Suite L, Worthington, OH 43085.

Southern California Turfgrass/Landscape Equipment & Material Educational Exposition, Costa Mesa, CA, **Oct. 14-15.** Contact Ed McNeill, Southern California Turfgrass Council, 1000 Concha Street, Altadena, CA 91001, 213/798-1715.

Southwest Turfgrass Association Annual Conference, Albuquerque, NM, **Oct. 15-16.** Contact Arden Balten-sperger, Southwest Turfgrass Association, New Mexico State University, Agronomy Dept., Box 3-Q, Las Cruces, NM 88003, 505/646-3138.

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