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by the Editorial Advisory Board, *Weeds Trees & Turf* magazine

Healthy Plants' Drought Defense

Northeast Emphasis is clearly on insect and disease control in June. Pythium and summer patch are the primary disease concerns at this time according to Martin Petrovic. Sod webworm and bluegrass billbug are primary insect worries. Regular inspection of turf for damage from these pests is advised to halt destruction early.

Golf greens may require treatment for cutworms says Harry Niemczyk. Other problem insects may be greenbug aphids and chinchbugs.

Crabgrass control may actually include both postemergence and preemergence products in June. Second preemergence herbicide applications are still being made in some areas. Postemergence herbicides are most effective against young crabgrass, so waiting until July to make postemergence treatments may not be the best idea.

Summer fertilization should favor slow release products over quick release. Turf needs to be able to resist and recover from pest damage, but excessively lush turf invites diseases.

Irrigation should be timed for the morning and should be heavy and infrequent rather than light and frequent. Turf pathologist Dr. Joe Vargas is recommending daily, very light mid-day irrigation of dis-

successfully with container-grown plants says Doug Chapman.

Great Plains—Bob Shearman recommends preventative treatments in June for summer patch (*Fusarium blight*), brown patch, and pythium blight. It is also time for second preemergence herbicide treatments and application of insecticides for bluegrass billbug and chinchbug where needed.

Annual flowers can be safely planted in June, rose fungicide sprays should continue, and insecticides used to control lilac borers, bagworms, and honeysuckle aphids.

Trees should be inspected and treated for elm leaf beetle, peach tree borer, sawflies, and bronze birch borer. Junipers may be treated with benomyl to control *Phomopsis* and with copper fungicides to control *Cercospora* twig blight. Pines may be sprayed with copper fungicides for needle blight.

Mid-Atlantic—Jack Hall recommends fertilization, aerification, verticutting, and irrigation of warm-season grasses in June. Sodding and sprigging are safely performed in June.

Cool-season turf has the extra worry of leaf spot, brown patch and *Fusarium* diseases in June.

Both cool and warm-season turf should receive application of postemergence herbicides for crabgrass and insecticides for sod webworm, billbug, and chinchbug control. A second, half-rate application of preemergence herbicide may be beneficial if extended summer crabgrass control is needed.

Florida enters the hurricane season in mid-June. Before the rains start, says Bruce Augustin, the soil is dry and irrigation is very important. Chinchbugs may take advantage of this dry, warm period to damage turf. The turf is growing rapidly.

When the rains begin in late June, diseases may become a concern. New plantings of St. Augustine are susceptible to gray leaf spot, and established warm-season grasses may become infected with brown patch and leaf spot. Heavy rainfall in late June may cause rapid leaching of fertilizers from sandy soil making extra fertilizer applications necessary.



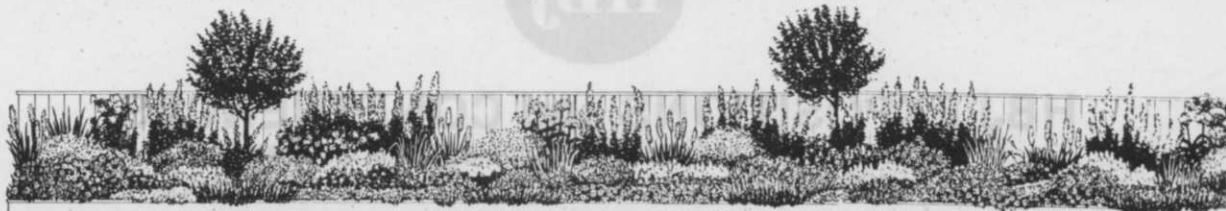
Irrigation controllers are adjusted to weekly rainfall

ease-prone turf to provide a suitable environment for beneficial organisms in the thatch. Problems with irrigation systems should start to be apparent in June and should be corrected before summer stress increases.

Trees and shrubs also prefer deep watering. Insect-prone shrubs should be watched carefully for infestations of aphids, arbovitae leafminer, birch leafminer, black vine weevil, dogwood borer, cottony maple scale, bronze birch borer, leaf hopper, lilac borer, and wooly peach aphid.

Narrow-leaved evergreens can be pruned in June. Storm damaged plants can be removed and replaced

Editorial Advisory Board members are: **Bruce J. Augustin**, extension turf and water specialist, University of Florida, Ft. Lauderdale, FL; **Douglas Chapman**, director and horticulturist, Dow Garden, Midland, MI; **Jack Hall**, Virginia Polytechnic Institute and State University, Blacksburg, VA; **Kent Kurtz**, professor, ornamental horticulture, Cal Poly, Pomona, CA; **Harry Niemczyk**, professor of entomology, Ohio State University, Wooster, OH; **Martin Petrovic**, assistant professor of turfgrass science, Cornell University, Ithaca, NY; **Robert Shearman**, associate professor of turf, University of Nebraska, Lincoln, NE



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TOMA SPEAKS *from page 16*

George Toma from the Kansas City Chiefs keynoted the conference. Toma fascinated the crowd with 140 slides of his experiences with both natural and artificial turf. "We face tremendous roadblocks at times," Toma admitted. "Only long hours, creative problem solving, and our crews get us through. We are a family and we have to stick together and grow."

Specialists in drainage, chemicals, soils, and irrigation gave both the basics and their tips to the Institute



Sports Turf Institute '85.

attendees. For four hours speakers shared their experiences so others could learn.

This year's Institute was sponsored by the Sports Turf Manager's Association (STMA), a non-profit professional

organization Kurtz serves voluntarily as executive secretary.

"STMA has arranged major regional seminars in 1986 in conjunction with the Golf Course Superintendents Association of America conference in San Francisco and the new Landscape Exposition in Valley Forge, PA," Kurtz said. In addition to the Institute, Kurtz hopes to develop seminars in the Chicago area and in Florida.

STMA has a bimonthly newsletter and a membership binder containing field specifications, membership roster, and product catalog sheets. Dues range from \$20 to \$100 per year. Interested persons should contact Kent Kurtz, STMA, 1458 N. Euclid, Ontario, CA 91764.

Kurtz is co-authoring a book with Dr. William Daniel on sports turf management to be published in 1986 by Prentice Hall.

TORO *from page 18*

Courtland P. Paul, president of the ASLA, is teaming with Toro's Rick Robins, landscape architects Bob Cloud and Cal Olsen, and university professors John Roberts and Jot Carpenter

on an editorial committee.

In a related matter, Toro announces a Landscape Advancement Awards Competition to recognize landscape professionals utilizing innovative irrigation techniques.

Landscape architects, architectural engineers, and other landscape professionals are eligible to compete for one of four \$500 cash prizes. Toro says it will contribute a \$2,500 donation in each of the winner's names to the endowment fund. The first presentation of these awards will be Oct. 11-15 at the 1985 ASLA show in Cincinnati, OH. Submissions for the 1985 awards will be accepted through July 15.

For more information contact Sherry Barndollar, executive director LAF, 1733 Connecticut Ave., Washington, D.C. 20009. (202) 223-6229.

TURFGRASS

Lofts extends Baron contract through 1989

Lofts Inc., Bound Brook, NJ, will continue to be the exclusive U.S. source of Baron Kentucky bluegrass at least through 1989, Jon Loft, president of the company, announces following his recent trip to Holland.

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Loft and Bert Barenbrug, Arnhem, Holland, extended their Baron contract through the 1989 harvest. Lofts Inc. and Barenbrug entered into their initial agreement almost 15 years ago when Lofts introduced Baron to the U.S. turf market. Baron's U.S. plant patent number expires May 23, 1989.

INDUSTRY

Chipco Ronstar WP registered for turf

Chipco Ronstar WP is now EPA registered for turf, but won't be marketed until 1986 because of the timing of the registration, Rhone-Poulenc Inc. reports.

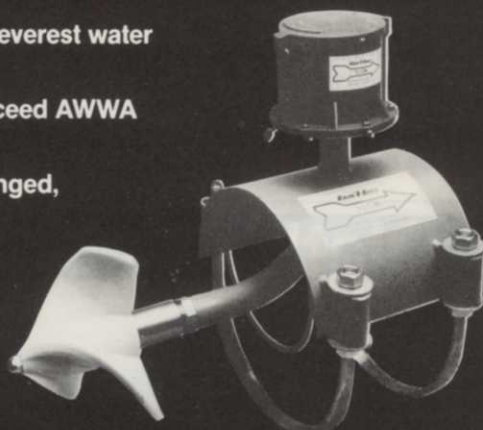
"We will use 1985 to demonstrate the excellent preemergent weed control of Chipco Ronstar WP to the turf professionals," says Chipco Product Manager Dan Stahl.

Chipco Ronstar WP is a wettable powder formulation of the widely used turf and ornamental pre-emergent herbicide Chipco Ronstar G.

Although the registration for Ronstar WP is for turf only, Stahl reports, "we already have a program for expanding the label and we have put that program into action."

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RESEARCH

Turf ring spot control difficult

The appearance of ring spots in turf still has researchers puzzled, although progress is being made in controlling it, says Dr. Gayle Worf of the University of Wisconsin.

The unpredictable response of ring spot, commonly called Fusarium blight, to traditional treatment is causing researchers to literally put the disease under the microscope.

Worf, who spoke at the recent Reinders Turf and Irrigation Conference near Milwaukee, says control of Fusarium blight is complicated because it appears to be two (or more) diseases with almost identical symptoms. Research points to necrotic ring spot (NRS) and summer patch as appearing as "twins", Worf notes.

His research in Wisconsin indicates NRS is usually a mid-summer disease that occurs primarily on bluegrass that is two to eight years old. NRS does not appear to be affected by aerification, removal of thatch, or by

changing the pH of the soil. Nor does it appear that NRS is caused by the application of herbicides.

Overseeding with perennial ryegrass will give affected turf a more pleasing appearance since NRS attacks bluegrass. But Worf says the best way to battle NRS might be to maintain sensible fertilization and irrigation programs. "Over a period of time, if you can keep the turf alive, the plants are going to heal themselves," he adds.

Some varieties of bluegrass (Adelphi, Majestic, Merion, Midnight, Mystic, Park, Vantage, and Wabash) appear to be more tolerant of NRS than others, his Wisconsin test plots suggest.

INDUSTRY

Scotts starts lawn care division

O.M. Scott & Sons, Inc. has set up a special division for marketing its products to professional lawn care companies.

The new division will be headed by Ron Gagne, a 16-year veteran of Scott's Pro Turf Division.

"The lawn care industry had not

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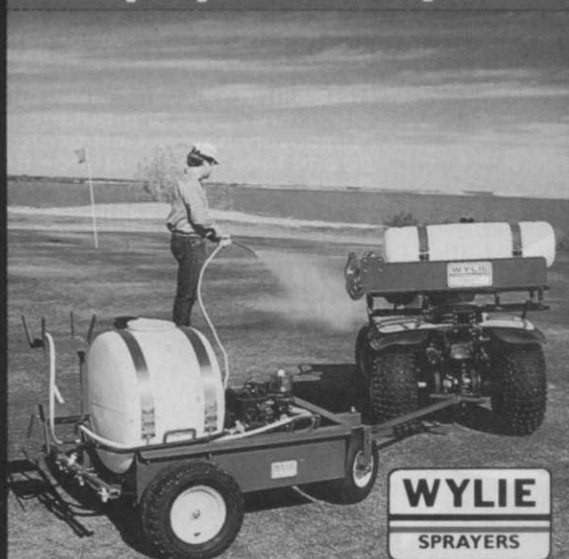
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been getting the attention it should have, mostly because we recruit our sales force from golf courses," says Gagne. "So our strength has been mostly with the golf courses."

"But after the PLCAA in Tampa last November, we decided to reorganize the Pro Turf Division and open a sales force specializing in professional lawn care and to develop a product line especially for that market."

The new division consists of five people, including Gagne. It will be expanded in October.

"Starting in January wasn't real good timing for this season," Gagne admits. "So this is a building year for us, a time that we're using to learn how to better serve the industry."

INDUSTRY

Estech to manufacture IBDU at Alabama site

IB Chemical Company, Bucks, AL, should begin manufacturing IBDU, isobutylidene diurea, for Estech later this year. IBDU, a high nitrogen, slow-release fertilizer, is distributed exclusively in North America by Estech, and is used in the formulation of that company's Par Ex turf fertilizers.

Par Ex Sales Manager Irven Stacy says healthy sales "required the need for (IBDU) production facilities in the U.S."

BUSINESS

New 'custom' lawn care service well received

W.R. Grace & Co. Agricultural Chemicals Group, longtime plant food maker, has apparently found a place in the professional lawn care market. It's one-year-old Wondergro Custom Lawn Service is now established in Southern Indiana.

"We've got plenty to keep us busy," Mike DeGroff, service center manager for the service, tells *Weeds Trees & Turf*. "We'll be expanding into Louisville this year."

Wondergro, based in New Albany, IN, presently employs a staff of six lawn care "specialists," each with a fully equipped service truck. Switchboard operators receive inquiries on several special lines. The service stresses the "custom" nature of its services in a campaign of outdoor, newspaper, radio, and direct mail advertisements.

Grace's entry into the lawn care business was spurred by the success of its line of seasonal lawn care products, Grace officials report.

SEED

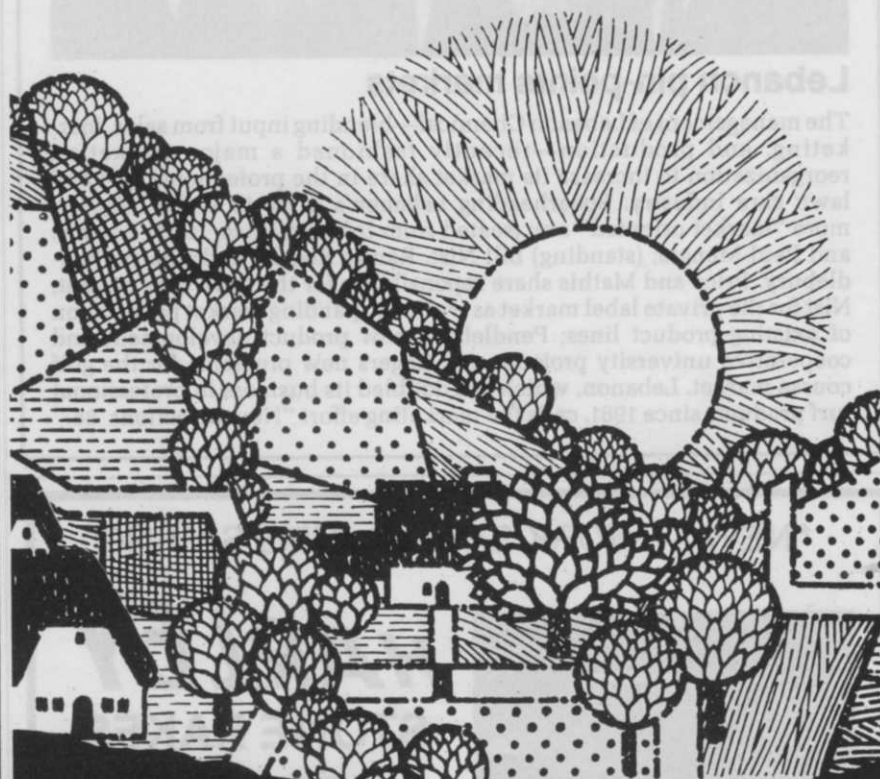
Jack Hertwig, 73, dies on assignment

Longtime turf industry representative Jack Hertwig died Feb. 26 in Manama, Bahrain. He was in the Persian Gulf nation as part of a joint American Seed Tradesman Association/Foreign Agricultural Service team of turf experts.

Hertwig was on assignment for In-the time of his death. Before joining

ternational Seeds, Inc., Halsey, OR, at that company in 1981 as a consultant, he worked 25 years with Germain's Seed, Los Angeles. For many years he headed that company's Golf Course Division.

Hertwig, a longtime member of the Golf Course Superintendents Association of America and Pacific Seedmen's Association, is survived by his wife Barbara, sons Joe and Tom, daughter Kathy, and three grandchildren.



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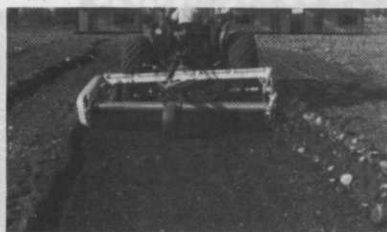
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Lebanon pin-points markets

The management of Lebanon Chemical—blending input from sales, marketing, and production—recently fashioned a major marketing reorganization to increase its market share in the professional turf and lawn care industry. Spearheading Lebanon's drive to make Lebanon more "market oriented" are: (seated from left), Ed Price, Harry Mathis, and Paul Mengle; (standing) Bill Nist, Randy Rogers, and Charlie Pendlebury. Price and Mathis share responsibility for the lawn care market; Nist for the private label market as well as expanding market penetration of existing product lines; Pendlebury new product development and cooperative university projects; and Rogers new programs for the golf course market. Lebanon, which has doubled its business in professional turf products since 1981, calls the marketing effort "New Directions '86."

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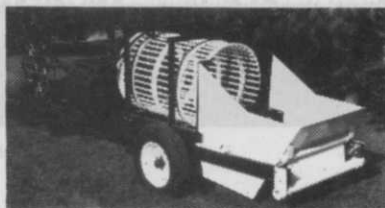
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by Ron Hall, assistant editor

NY artist creates 'living' sculptures

Hera bends the rules. Of art. Of landscape design. And she gets away with it, to the delight of both herself and a growing number of admirers.

Landscape with a message?

"I call myself an environmental sculptor because my work is large enough to walk around in, but you can still smell the flowers. I want to affect more senses than just the visual," says Hera, who works out of a Manhattan apartment but is represented by work as far away as New Orleans.

Her self-professed goal is to nudge the consciousness of visitors to her gardens toward an understanding of space. Or as Hera (in 1977 she took the name of an ancient goddess of Crete) says: "I want to create a sense of our scale as human beings."

Her creations use predictable landscape plant material in unpredictable designs.

Her latest project, the "Vaulted Arbor" at the Glenwood Houses in Brooklyn, generated conversation in both landscape and art circles in New York at its dedication last fall. She describes it as a "living" sculpture. It is a 22-foot-high, octagonal steel sculpture made of 1 1/4-inch galvanized steel pipe welded at the intersections and anchored in concrete footings.

Plantings of flowering vines on the structure will give it life, Hera explains. White clematis provides

blossoms in spring, golden honeysuckle in summer, blue-purple clematis in fall, and evergreen ivy in winter. "Vaulted Arbor" (43 feet in diameter) could as easily be described as a living sundial. It is laid out in north/south, east/west symmetry.

Hera designs her environmental sculptures for the people who will come in closest contact to them.

"About 80 percent of the people living at Glenwood Houses are elderly and they're very caring people," Hera explains. "They seem delighted with the vegetation. The plants make it easier for them to make contact with the sculpture." Much of the care for "Vaulted Arbor" will be handled by some of these same residents of Glenwood, volunteers, with the help of the Brooklyn Botanic Gardens, which provided financial and technical assistance for its construction.

"Vaulted Arbor" is a departure from her previous work as an environmental sculptor.

In 1980 Hera directed the planting of "Floribunda", a 96-by-69-foot maze of evergreen shrubs and flowering bushes on a prominent traffic island at the Creedmoore Psychiatric Center, Queens Village, NY. Students from nearby Martin Van Buren High School and the City University of New York helped in the planting of the 300-plus shrubs in what Hera feels is a "huge floral puzzle."

The outside curves contain crimson azalea and purple rododendron. The dead end pockets are darker with inkberry and boxwood plants. Hera wants the maze to create a sense of mystery without being threatening (it's only three feet tall). The message of the living maze, which is best viewed from above, from the cafeteria of the psychiatric center's main building, should be obvious, the environmental sculptor feels.

Says Hera, "the only true life is outside institutional structures."

The Manhattan-based artist created additional interest in her personalized approach to landscape sculpture with the hedgemaze "Stormflower" in New Orleans, "Snail Shell Maze" in Boxford, MA, and "Bear Paw Maze" in Yonkers, NY.

"Stormflower," installed at the University of New Orleans is perhaps the most colorful. Planted primarily in azaleas, the maze fans out spiral arms to a diameter of 160 feet, representing a hurricane.

Hera's next major project, "Spirit House," should be ready for Laumeier Sculpture Park in St. Louis sometime next year.

"One of the most exciting smells which I can remember is the smell of clean, moist earth which permeated the air of my grandmother's greenhouse," Hera recalls.



"Vaulted Arbor" in Brooklyn is a 22-foot high "living" sculpture.



"Stormflower" in New Orleans is primarily planted in azaleas, providing a maze of color.