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Cover: The activity on the floor of the GCSAA Show closely resembles a multi-ring circus with something for everyone. Art by Al Bartow, Cleveland, Ohio.

JANUARY 1982/VOL. 21, NO. 1

WEEDS and TURF

— PEST CONTROL —

A SECTION OF PEST CONTROL MAGAZINE
JULY 1962

A Guest Editorial
by
1981-1982 President

DELANEUSSE'S SCORPION
New Chester, Pa., released, etc.

New Section Added to Industry Demand for Weed, Turf Data

Control of unwanted vegetation is one of the oldest activities of man, yet the techniques and concepts in general use today are based largely on relatively recent developments. Now herbicide discoveries, better knowledge of herbicide action and selectivity, new concepts in application methods and equipment — all are contributing to an expanding and a more complex industry.

So it is that when a student develops rapidly and practical application becomes economically profitable, getting the right information at the right time becomes increasingly important. This is certainly true with regard to application, who need to introduce new information, presented clearly, concisely, and accurately to suit the speedy pace of modern American business.

This new section of *Weeds and Turf* magazine will (Continued on page 97-98)

Multibillion Dollar Weed, Turf Market Awaits Informed Diligent Applicator

By J. C. KIDD
President, World National Services, Inc., Cincinnati
Past President, National Pest Control Association

ONE OF the best ways for a control applicator to grow, other than by selling more of his present services, is to add new ones. This is why an insect pest control operator, and owners of similar service businesses, have expanded into weed control and turf spraying over the past decade.

Applicators who want to incorporate other pursuits into their present line should make sure their new ventures are closely related to the ones they're now engaged in. If not, they will have to set up entirely new organizations and consequently defuse their objectives, or expand logistically and profitably.

PTCs, particularly, want to use their equipment, personnel, and field-gained know-how for additional, related activities. For this reason, many of them have jumped into the booming demand for industrial weed control, and contract turf spraying.

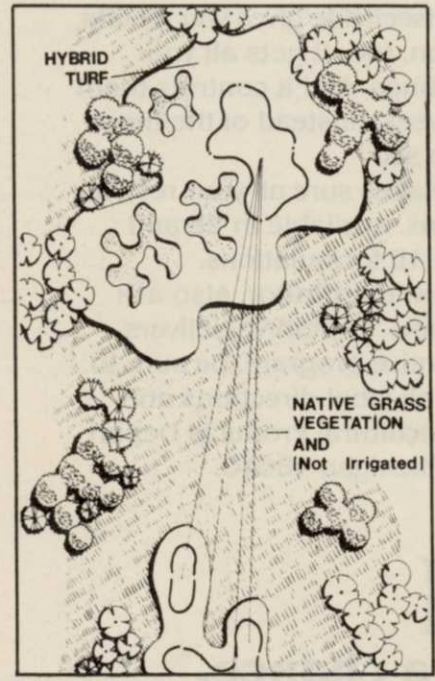
Few markets look more promising right now. Homeowners tend to build \$300,000 houses, spend \$10,000 decorating inside, and only \$100 on their lawns and landscapes. These folks have not yet been taught that more people are the outside than the inside of their homes. They have not yet been educated that the outside should have fine attention.

Applicators can offer these homeowners a variety of services. Control of such nuisances as shrub bugs, fire ants, termites, moths, white grubs, fleas, ticks, chiggers, fall army worms, and

Leave pest control as an important part of your total business. Some business are leading edge and some are established. In order to succeed, you have to have a complete pest control as well as general structure pest control.

WEEDS AND TURF Pest Control Section, July, 1982

First issue in 1962. P. 23



Par 3 with native vegetation. P. 28

23 20th Anniversary: WTT Is No Longer A Teenager

Celebrating our 20th year serving the Green Industry. A history of the magazine's creation and the editors who guided it.

26 Modern Pressures Force Rethinking of Golf Course Design

Charles Ankrom, golf course architect based in Florida, outlines the changes in golf course design necessitated by water shortages and maintenance costs.

38 Gardens for Golf Courses: Superintendents Manage More than Turf

Dr. Ray Korbobo of Rutgers and Jeane French, landscape architect, team up to present ideas for garden areas throughout the course.

48 Pruning: Key to Integrated Plant Management

Horticulturist Doug Chapman of Dow Gardens covers plant growth characteristics and how they relate to pruning.

56 Photographic Proof Of Golf Course Needs

James Trigg shows how photography can be used in presentations to greens committees to support needed changes to the course.

62 Coffeetree Can Serve As Good City Tree

The list of city trees grows shorter as diseases and pests take their toll. New trees are needed for urban tree programs.

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Actual Size

GREEN INDUSTRY NEWS

SEED

Zoysia seeding may replace plugging

United States Department of Agriculture has discovered a method of propagating zoysiagrass by seed, according to the USDA. The discovery is particularly noteworthy to the turfgrass industry because zoysia's use has previously been limited by its inability to be adequately spread by seed.

Dr. Doyi Yeam and research agronomist Jack Murray first suggested an alternative technique to the traditional "plugging" method of zoysia germination while doing research at the USDA's Beltsville Agricultural Research Center. They found that by

soaking seeds in a 34 percent potassium hydroxide (KOH) solution for 25 minutes and then exposing them to 48 hours of low intensity light, they could induce more than 90 percent of the zoysia seed to germinate within six days. Untreated seed takes six weeks to reach 30 percent germination.

The KOH solution breaks the seed coat and eliminates a growth inhibiting enzyme present in the seed, while the low intensity light stimulates rapid and uniform germination, explained Murray.

Zoysia propagated by treated seed

was also found to spread at least twice as rapidly than when established by any other method. After only three weeks, 67 percent of the treated seed area was covered by grass, with an average of 218 plants per square foot. Untreated seed, by comparison, had covered only three percent of its area, averaging only seven plants per square foot.

Zoysia works best when applied on bare earth with a smooth roller after drop seeding. Despite the grass's knack for keeping weeds at bay, it performs poorly when seeded into existing turf.

CHEMICALS

Diamond Shamrock earmarks \$20 million for Dacthal plant

Diamond Shamrock Corp., Cleveland, OH, has approved funds for the reconstruction of the Agricultural Chemicals division's Dacthal plant in Houston, TX.

Plant reconstruction will begin early

in 1982 with the project scheduled to be completed by the end of the 1982 third quarter. The total cost will be in excess of \$20 million. Dacthal herbicide is expected to be available for the 1983 growing season.

Engineering work for the plant's reconstruction is already underway. Demolition of the damaged portion of the plant has already been completed.

Dacthal production was halted in July, 1981, when an explosion damaged the Houston plant.

In other Diamond Shamrock news, Kurt Schwartau has been named product manager for the Agricultural Chemicals division. Prior to his promotion, Schwartau was a sales representative in the division's midwest region. He has been with Diamond Shamrock since 1979.

Price cut announced At Ronstar G meeting.

A new, lower price for Chipco Ronstar G herbicide was announced by Rhone-Poulenc Chemical Co., Monmouth Junction, NJ, at its northeast distributor meeting held in Atlantic City, NJ.

New production efficiencies have permitted the average price to be reduced 12 to 14 percent below 1981 levels, according to Gerald Quinn, Ronstar G product manager. "Ronstar G can now effectively compete in a broad range of turf market," said Quinn. "Its ease of application and gentleness to a wide variety of turfgrasses and ornamentals make it one of the most cost effective preemergent herbicides available for the control of grassy weeds."

At the meeting Dr. Ralph Engel and Dr. Henry Indyk, both of Rutgers University-Cook College, presented results of their Ronstar G research.

Continues on page 8



Derby perennial ryegrass, International Seed Co., Halsey, OR, was advertised on a hot air balloon at the Southern California Turf and Landscape Equipment Show. The balloon was co-owned by Bud Franklin, Capitol Nursery, Phoenix, AZ and Gary Harrington, Mesa Country Club, Mesa, AZ. (See Landscape Update on page 11.)

PENNEAGLE Creeping Bentgrass



The grass that re-greened Butler National

A devastating grass disease virtually destroyed the greens at Butler National Golf Club, Oak Brook, Illinois, home of the *Western Open*, shortly before the 1980 tournament. The Butler Board of Directors decided to replace the grass on all greens and after viewing several varieties of bentgrass in the Chicago area, they selected Penneagle Creeping Bentgrass for the restoration program.

Dr. Joseph M. Duich, professor of Turf Science, Penn State University, and

For name of your nearest dealer, call:

Tee-2-Green Corp.

P.O. Box 250

Hubbard, Oregon 97032

Toll Free: 1-800-547-0255

TWX: 510-590-0957

developer of Penneagle bent was called in as a consultant. Working closely with Oscar Miles, Course Superintendent, the re-seeding of Butler National was begun in mid-August 1980. Before the project was completed, the entire



PENNEAGLE
CREEPING BENTGRASS

course was seeded to Penneagle Bentgrass.

By November the course was pronounced in excellent condition and by the 1981 *Western Open* the course drew raves from players and spectators alike.

The TEE-2-GREEN CORP., marketers of Penneagle and Penncross bentgrass has published a booklet complete with photos of the Butler restoration program. The step by step program at Butler is available free of charge.

For your copy write:

Tee-2-Green Corp.

Information Coordinator

1349 Capitol St. N.E.

Salem, Oregon 97303

Phone: (503) 363-1022

Look for us in Booth 27 at the GCSAA show.

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YTP JOB NUMBER 4769

GCSAA Conference Schedule

The 53rd International Golf Course Superintendents Association of America's Turfgrass Conference and Show in New Orleans, January 30 — February 5, is chock full of events, seminars and meetings. The following is *Weeds Trees & Turf's* guide to what is happening and when it is being held.

Monday, February 1

- 7:30 Prayer Meeting
- 9:00 Opening Session — Keynote Address
- 10:30 Newsletter Editors' Reception
- 11:00 Press & Speakers' Luncheon
- 12:00 Spouses' Opening Luncheon
- 1:00 Water Symposium I
- 1:00 Distributor Show Review
- 2:30 Spouses' CPR
- 4:30 Meet The Candidates
- 5:30 Mardi Gras Reception

Tuesday, February 2

- 7:30 New Member Orientation
- 9:00 Ribbon Cutting Ceremony
Show Officially Opens
- 9:30 Certification Committee Meeting
- 10:00 Spouses' Tours
- 11:00 Membership: Long-Range Planning Briefing
- 12:00 Voting Delegates' Luncheon
- 1:00 Water Symposium II
- 4:30 Membership: Long-Range Planning Briefing
- 6:00 EAC Dinner Meeting

Wednesday, February 3

- 7:30 President's Council Breakfast
- 9:00 USGA Green Section Program
- 9:00 Spouses' Program
- 10:30 Spouses' Program
- 12:00 Education Committee Luncheon Meeting
- 1:00 USGA Green Section continues
- 3:00 GCSAA Annual Meeting
- 6:00 President's Reception (By Invitation)

Thursday, February 4

- 7:30 Executive Committee Breakfast
- 9:00 E.F. Hutton
- 10:15 Thinking Superintendent
- 10:15 Course Drainage
- 11:00 Putting Green Speed
- 1:30 Communications
- 2:00 Show Officially Closes
- 2:45 Thinking Superintendent
- 2:45 Tree Management
- 2:45 Golf Cart Management
- 4:30 IRC Meeting
- 6:00 Banquet Reception
- 7:00 GCSAA Annual Banquet & Show

Friday, February 5

- 9:30 Superdome Tour

GCSAA publishes its Proceedings of the show each year. If you must miss the conference, write GCSAA for the 1982 Proceedings, GCSAA Director of Education, 1617 St. Andrews Drive, Lawrence, KS 66044.

Engel noted that the three pound rate, especially when applied in late April, was effective, "Ronstar G is one of the most effective preemergent herbicides," said Engel. Indyk reported that previous complaints of poor results with Ronstar G were traced to improper technique of application. "It stands alone in the treatment of goosegrass," added Indyk.

GOVERNMENT

New lawn mower regulation approved

Yielding to an order from Congress, the Consumer Product Safety Commission has rewritten its regulation on power lawn mowers.

Due to the new regulation, the mower's engine will shut off whenever the operator is not holding the handle. This makes it virtually impossible for an operator to get his hand caught in the mower blade yet adds the inconvenience of restarting the engine repeatedly.

The Outdoor Power Equipment Institute lobbied for the new regulation over a 1979 version. The earlier version would have required the blade to stop without killing the engine when the operator lets go of the handle. OPEI noted that that version would have added \$60 to mower prices.

TURF

Grounds managers turn out for PGMS conference

The Pacific Northwest was the site for the 69th annual conference and trade show of the Professional Grounds Management Society and the more than 140 attendees made the most of both the Portland, OR locale and the conference program.

Many of the grounds managers attending played the host city for all it was worth—visiting Mt. St. Helens, the International Rose Test Gardens and Japanese Gardens and some of Portland's commercial nursery operations. While the number of attendees was down slightly from years past, the enthusiasm and involvement of this year's group more than compensated.

Seminars were divided into three sections—management, design and technical—and all were well-attended. Sandra Entrekina, Interact Resource and Development Center, and Dr. Roy Goss, Washington State University, proved to be two of the most popular speakers. Entrekina's talk on "From the

Continues on page 11

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1-82 1

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