

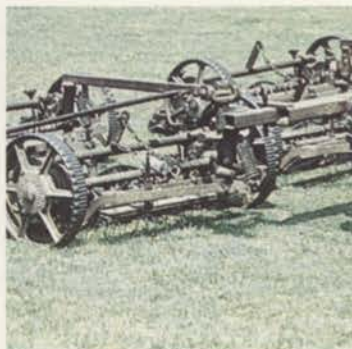


# ***THE SOUTH FLORIDA GREEN***

Vol. 4

OCTOBER, 1977

No. 4



**TOM MASCARO**  
*Profile of  
Progress and Vision*

# The South Florida Green

The Official Bulletin of the South Florida Golf Course Superintendents Association

## BOARD OF DIRECTORS

Leroy Phillips ..... President  
*General Development Corporation Properties*

Tom Burton ..... President Emeritus  
*Coral Ridge Country Club*

Dan Jones ..... Vice President  
*Aventura Country Club*

Fred Klauk ..... Secretary-Treasurer  
*Pine Tree Country Club*

Phil Amman ..... Director  
*Bonaventura Country Club*

Vince Spano ..... Director  
*Atlantis Country Club*

Alan Weitzel ..... Director  
*Dade County Parks & Recreation*

## CONTENTS

President's Message .....	1
Tom Mascaro .....	4
Technical Training Center .....	6
FT-GA News .....	7
Ask the Doctor .....	8
Can You Top This? .....	9
Chemically Speaking .....	10
Pesticide Ban — Cut Crop - Raise Price .....	12
From the National .....	14
Hooks & Slices .....	16
"Super" Ideas .....	18
Recently .....	19
Editorial .....	20



Dan Jones, Editor  
*Aventura Country Club*



Dr. Max Brown,  
 Associate Editor

Susan F. Edwards, Editorial Supervisor  
*Turfgrass Products Corporation*

### Staff Writers:

Dave Bailey, *Breakers Country Club*  
 Guy Williamson, *Woodmont Country Club*  
 Harry C. Lincoln III, *Boca Raton Hotel & Club*

### Photography:

Harry McCartha, *Henderson & McCartha*

### Advertising:

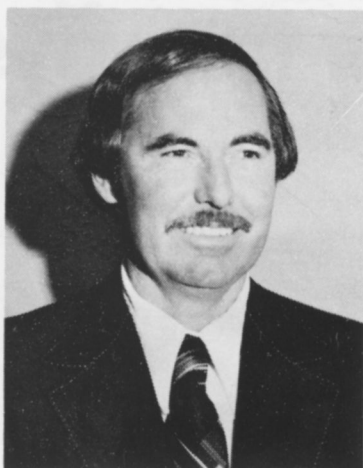
Guy Williamson — Broward County  
 Mike Dmytriw — Dade County  
 Scott Sincerbeau — Palm Beach County

## "ON OUR COVER"

Photo Tom Mascaro		Grass-Cel Paving 1977	
Battery Powered Greens Mower 1958		Powered Triplex Dragmat 1960	
Original Powered Aerifier 1947	Original Verti Cut 1950	West Point Verti Cutter Core Catcher 1957	
Original FG Aerifier 1946	Flexicomb Weed & Crabgrass Eradicator 1947	Our cover features a true pioneer in our industry along with some of the material and machinery he has developed.	

**NOTICE:** All correspondence concerning business matters, circulation, editorial and advertising should be addressed to the Editor, 7521 N. W. 12th Street, Plantation, Fla. 33313. Opinions expressed by writers in by-lined editorials are not necessarily those of this publication. "The South Florida Green" is published quarterly; the 1st of January, April, July, October. Closing date for advertising and copy is 45 days prior to publication. Not copyrighted. Please give credit to author and "The South Florida Green."

## President's Message



I would like to say "thanks" to you the membership for the opportunity to serve the Association as an officer. I am looking forward to a great year.

The only way we can achieve the goals which we set for the Association, is to become involved and help. So I am asking you to help the Board set new goals for the Association and work to achieve them.

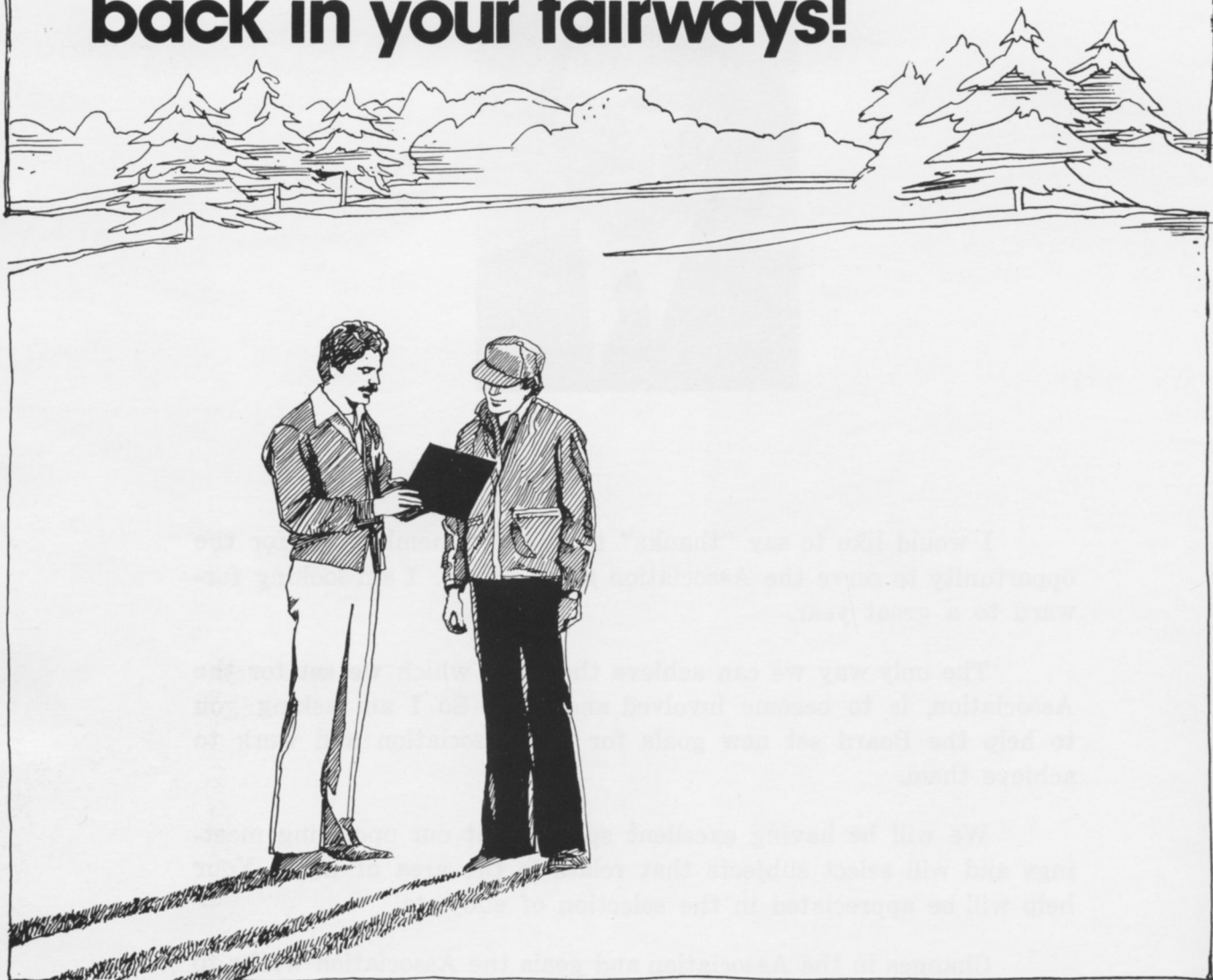
We will be having excellent speakers at our upcoming meetings and will select subjects that relate to the area of need. Your help will be appreciated in the selection of subjects.

Changes in the Association and goals the Association works to achieve, have to come from you the members. So feel free to direct information to the Board member in your area, or to me personally.

The Association can be fun as well as business. Perhaps a Christmas party and a night meeting with wives included. The Association is yours the member's, so pitch in and help.

*Servoy Phillips*

# USS Tournament Plus 19-5-9... We'll help put the green back in your fairways!



If you're looking down yellow or off color fairways, take a walk on them with your local USS Vertagreen distributor as soon as possible. He'll show you how USS Tournament Plus 19-5-9 can be the answer to your problems. This great product, developed especially for fairways, will release 48% of its nitrogen content in a sustained, uniform manner because of the urea-formaldehyde

content. And that deep, dark green color will come from the sulfate of potash.

It also contains guaranteed amounts of secondary and micro-nutrients as well as chelated iron for uniform growth. USS Tournament Plus is another reason we say "see the best, for the best" — and that's your local Vertagreen distributor. He'll put the green back in your fairways.



## Agri-Chemicals

Division of United States Steel

P.O. Box 1685, Atlanta, Ga. 30301

# Straight Shots

It takes a lot of cheek to uphold a narrow mind.

Always hold your head up but be careful to keep your nose at a friendly level.

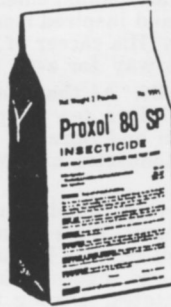
Save for a rainy day and a new tax comes along and soaks you.

Apology is often a good way to have the last word.

When it comes to giving, some people stop at nothing.

## TUCO

Programmed Turf Care with PROXOL 80 SP Insecticide and ACTI-DIONE THIRAM Fungicide



### PROXOL® 80 SP

For Worm and Grub Control

### ACTI-DIONE THIRAM

For Disease Control



BILL J. MAXWELL, TUCO, Div. of Upjohn — (305) 395-4323

"HAVE YOU MADE RESERVATIONS FOR THE **FT-GA SHOW** IN ORLANDO AND THE NATIONAL IN SAN ANTONIO?"



Superior Fertilizer & Chemical Company

MAIN OFFICE:  
P.O. BOX 1021, TAMPA, FLA. 33601  
813-247-3431

FT. PIERCE PLANT: 305-461-2230

Dial Operator Mobile (305) 581-6123

LAMAR "SUNNY" SMITH  
mobile unit 2209



### Power to get the job done.

The GT-7's 50 cubic inch air-cooled engine has the power to carry a full payload up to 28 mph. The standard Range Changer, with six forward speeds, provides proper pulling power for rollers, aerators, gang mowers, and other maintenance equipment.

POLARIS EZ-GO DIVISION OF TEXTRON, INC.  
721 N. W. 57th Place, Ft. Lauderdale, Fla.  
772-6700-FTL. 659-0144-WPB. 945-1130 MIA.

# TOM MASCARO

## "A Profile of Progress and Vision"

by SUSAN F. EDWARDS

When history tells the story of mechanization in Turfgrass Management, Tom Mascaro will be honored. He will be listed among the innovators and inspired men whose dedication and drive have brought professionalism to our industry. His career of over 40 years has brought needed equipment into our world and led the way for even more.

Tom entered the Turfgrass Industry in Pennsylvania in 1936. At that time turfgrass research and equipment development was in its infancy. Only a few people were engaged in turfgrass work: H. B. Musser at Penn State; Alghren and Sprague at Rutgers; DeFrance at Rhode Island; Professor Dickenson at Massachusetts and Monteith at Arlington.

In those years, top dressing of greens was done almost every Monday morning. Many fairways were being top dressed annually too. Tom's company, West Point Products, met this demand by custom blending top dressing for the golf courses in the Philadelphia area. A year later, Tom's brother, Tony, joined the firm and together they built an organization that served golf courses in the Middle Atlantic states. During the war years, the brothers managed to hold things together while doing experimental work on disposable gliders and aircraft engines.

It was after the war in 1946 that Dr. Fred V. Grau told the Mascaro brothers that the need existed for a machine to renovate golf course fairways. The two brothers applied themselves to this problem and to their amazement developed a machine that not only renovated turf but could also be used to manage it. The machine, which later became universally known as the "Aerifier", cultivated the soil under turf to reduce compaction.

Tom trailed the unit behind his car on a country-wide one-man demonstration. The three foot tractor drawn model had 1" spoons and manual control only to raise and lower the reel assembly. Definitely not the sophisticated unit seen today. Yet it was needed and the results proved its value. This unit was towed over fairways and even the more "holy" areas — the greens.

The "Aerifier" became famous and propelled the company into many firsts. Tony left the company but Tom continued to develop new labor saving equipment for the Turfgrass Industry. He introduced the first vertical mower to control grain and thatch on golf greens. Refined the "Aerifier" to meet increasing demands on other turfgrass areas such as athletic fields and institutional grounds.

Tom's goal was to produce equipment that would reduce working time and labor costs — usually the largest outlay in a budget. His concept of "one man operation" was well received.

The motorized "Power Drag" that mats a 9' swath replaced the 3' mat that had been drawn by hand. Another concept to save time was that of "putting wheels under every man." The T-3 and "Mini-Truck" were developed for this task.

In 1969 Tom's West Point merged into Hahn Inc. of Evansville, Indiana. Tom served as head of Product and Market Development of the Turf Division until he got the urge to move South.

Moving his family to Florida in 1974, he became associated with Safe-T-Lawn, Inc. Being a man who cannot walk away from a challenge, Tom formed a new company in 1976. Again with this new company, Turfgrass Products Corporation, he is leading the way in new concepts. The first product developed has already been accepted in practice to stabilize soils and prevent compaction and wear.

Today he holds 12 patents and 2 pending. In addition to equipment development his introductions of new concepts in Turfgrass Management have brought about words like "Aerifier", "Verti-Cut", "Verti-Grooving" all of which are his copyrighted names.

Through these many years and continuing today, Tom Mascaro has devoted much of his time and energies to help in the development of research and education in this industry. Since 1950 he has given lectures to 25 to 30 Turfgrass Conferences and meetings a year. To keep Superintendents updated on new practices and changes, Tom published "West Pointers" the house organ of his firm that averaged monthly mailings of 12,000.

Tom's role in promoting, assisting and supporting many state universities and organizations to establish turfgrass research programs and turf conferences continues. Georgia, Florida, California, Texas and the Mid-West Regional Turf Foundation are a few. His capacity to help seems endless.

From recording complete turfgrass program talks, mimeographing the proceedings and making them available to atten-



*Even then a usual stance for Tom . . . a camera in hand and a smile for all!*

dees; to sponsoring bus tours on the East Coast helping experts in the field study turfgrass problems, Tom has done much to inspire us ahead. Developing a turfgrass correspondence course for salesmen so they could better help their customers was another area where Tom led the way. Tom recalls that of 265 taking the course 235 completed it. Superintendents around the country heard of this course and asked for it. Tom engaged Professor Musser to rewrite the course and offered it at cost. The alumni of this correspondence course numbers over 2,000.

LASI

## Liquid Ag Systems, Inc.

The Leader In

**QUALITY LIQUID FERTILIZERS**

and

**Injection Systems for Golf Courses**

Ed Darlington

Dan Brunetti

1010 NorthWest 15th Avenue

Pompano Beach, Fla. 33060

(305) 971-0022

For many years he traveled with O. J. Noer learning about turfgrass management and photography from him. As a result Tom has accumulated over 50,000 slides on the subject of turfgrass Management. He can give illustrated talks on any area in this field. Among his most prized pictures are a shot-by-shot set of Pine Valley and Cypress Point; Eberhard Steiniger, CGCS, showing when he discovered the strain of Cohansy Bentgrass; and Superintendent Joe Valentine pointing to the spot at Merion where he discovered Merion Bluegrass.

Tom's collecting and sharing information has been done through almost every medium, appearing on radio and television programs, writing articles for magazines, newspapers, editing "Photo Quiz" for the "Golf Superintendent" and writing numerous technical booklets. Tom wrote and published a booklet called "A Handbook for the New Greens Chairman." His informal editorial staff included Dick Tufts, Past President of the USGA, H. B. Musser, author of "Turf Management"; and Admiral Phillips, Chairman of the Army-Navy Country Club. Many of Tom's writings have been translated into Japanese, Italian, French, German and Swiss.

Tom Mascaro has been instrumental in bringing attention to the Turfgrass World. He and Professor Musser conceived and started the Pennsylvania Turfgrass Council which has been adopted by many states. He served as Secretary, President and Chaired the Committee that proved the Turfgrass Industry in Pennsylvania was the largest crop in the state. He later helped to spearhead the same type of survey in the state of Florida. Results were the same, turfgrass is the largest crop.

Tom has been honored for his dedication and contributions. Among his awards are the USGA Green Section Award in 1971, the Distinguished Service Award from the Golf Course Superintendents Association of America in 1976 and induction into the Oklahoma Turfgrass Hall of Fame in 1976.

When thinking about who has been honored, perhaps we should reflect on ourselves. We, are in fact among the many, who have been enriched and honored by this self-less man of progress and vision.



*Left: Al Radko, National Director of USGA Green Section, adds Tom Mascaro to the list of recipients of the Distinguished Service Award in 1971.*



*Conferring and putting into action. Here are (left to right) T. L. Guston, Philadelphia Toro, Tom, and the late Dr. H. B. Musser, Penn State University*

# COMMERCIAL ENGINE & EQUIPMENT CO.

337 S. W. 14th AVENUE    POMPAÑO BEACH, FLORIDA 33060

The Budget Stretchers . . . GUARANTEED

## Remanufactured Exchange ENGINES

## Kohler - Wisconsin - Onan - Omc

CALL COLLECT

# 305-781-2228

## Free Pickup & Delivery

BROWARD - DADE - PALM BEACH - MARTIN COUNTIES

"We Ship Anywhere"

## SOUTH TECHNICAL EDUCATION CENTER MEETS INDUSTRY TRAINING NEEDS

The South Technical Education Center was established to supply skilled workers to the business and industries of South Florida. The Center is located in southwest Boynton Beach, in modern and well-equipped facilities. But even more impressive than the buildings are the school's thirty occupational training programs, which make career training possible for both high school and adult students. Daytime classes are scheduled either in one six-hour block for full-time, post-secondary students or two three-hour blocks for students who come from surrounding high schools in either the mornings or afternoons. The Center is administered by the Palm Beach County School System.



DR. CARLOS SCHMITT

The Center recognizes the growing need for equipping graduates with salable skills before they enter into the job market and upgrading of persons already employed. The Center staff strive to develop a totally professional atmosphere where students learn an attitude toward work as well as the skills needed to perform a job. Participation on program advisory committees by leaders from business and industry assists Center personnel in establishing realistic training programs. Instructors are required to have previous practical experience in the field they are teaching. Most Center programs permit students to enroll at any time and advance at their own pace through individualized instruction.

Two programs specifically related to the golf course industry are the turfgrass and ornamental horticulture program and the marine and small engine repair program. The turfgrass program is designed to train skilled workers for golf course maintenance positions in South Florida.

Students in the program become skilled and knowledgeable in maintenance of greens, fairways, roughs and traps; fertilizers and fertilizer placement; pests and pesticides; ground preparation; propagation and growth; care and operation of turf maintenance equipment. The students in the program have already constructed a golf green on the campus and are responsible for its ongoing maintenance.

The small engine and equipment program is designed to train mechanics for lawn and golf course equipment. Students receive instruction in principles

## CONROY & McCAULEY

Distributors For

W. W. GRAINGER, INC.

Motors • Tools • Equipment

AMERICAN LUBRICANTS CO.

Oils • Greases • Tire Guard

ROTARY MOWER PARTS

Engine Parts • Mower Blades

Filters • Mufflers • Controls

FOLEY MANUFACTURING CO.

Grinding Equipment • Parts

ALSO

BELTS • BEARINGS • TIRES

POLY PRO CORD • CHAIN



Call or Write for Catalogue

1131 N. E. 23rd STREET

POMPANO BEACH, FL. 33064

Phone: 946-8685

of internal combustion engine operation; reading technical manuals; hydraulic, mechanical control, fuel, power transmission, and electrical systems; and safety.

The Center staff is looking forward to the growing support and involvement of the communities they service. They desire to develop an institution which maintains high standards and a position of excellence among vocational training centers. The final test of their success will come when the graduates are placed and are able to perform successfully in the field in which they were trained. They invite any interested person to visit their campus to observe their training programs in operation.

*NOTE: These programs directed by Dr. Carlos Schmitt are assets to our Industry. Further information about programs or graduates can be directed to: South Technical Education Center, 1300 S. W. 30th Avenue, Boynton Beach, Florida 33435. Phone: 737-7400 or 272-8800*





## FT-GA Celebrates 25th Anniversary

The Florida Turf-Grass Association will celebrate the 25th Anniversary of the First Management Conference, October 16-19, 1977 at the Sheraton Towers Hotel in Orlando. Speakers of world renown as well as many outstanding turf managers in the state will present a program with the theme, "The Critical Path." Recognizing that the path of the turf manager these next few years will be critical because of continuing regulations of pesticides, water and the energy crises and other important parts of management, the Conference and Show will address itself to these items.

For the first time this year, the Research Session will not appear last on the program. During each presentation, research papers will be integrated with information for the beginning turf manager and the professional.

Sixty national manufacturers will be represented in the Trade Show, bringing you the latest in equipment and materials.

FT-GA's eighteen (18) Past Presidents will be honored at the Banquet on Tuesday evening, October 18th. We expect to have several "Special Guests", including Senator Allen Trask, Chairman of the Senate Agricultural Committee.

Pre-registration information and programs were mailed in mid-August. Hotel reservations will, again, be made with the FT-GA office.

## O. S. Baker

O. S. Baker, 92, died June 19th, 1977 at his home. Son of Iva Sproule Baker, pioneer Miami musician. He came to Miami in 1921. For Glenn H. Curtiss the aircraft pioneer, he built the now Miami Springs Golf Course and became its first manager as it came under the control of the City of Miami. Later, taking over from engineering construction, he finished the Boca Raton Club for the C.H. Geist interests of Philadelphia. For these same developers he assumed charge of the Seaview Golf Club at Abesecon, New Jersey. For more than 12 years, until World War II when he joined the War Engineers, then building and maintaining new airfields in seven southern states. Following the war service he was associated with the Lulu Temple Golf Club in Philadelphia and the Indian Creek and Ponte Verda Clubs in Florida. He was a 50 year Class AA member of the Golf Course Superintendents Association of America. In later years, he operated O. S. Baker Fine Turf Grasses until blindness forced retirement some 12 years ago.

*Editor's Note: O. S. Baker was a 1960 recipient of the FT-GA "Wreath of Grass" Award. Our thoughts are with his family.*

## Well and Pump Installation

Specializing in  
DEEP WELL TURBINE PUMPS  
Service and Repair  
Maintenance Program Available

**MAXSON**  
WELL DRILLING, INC.

3328 N. E. 11th Ave.      Oakland Park, Fla.

Phone 564-3419

When you think of MILORGANITE in South Florida we hope you will continue to think of us

Harry McCartha



Please note our new name and telephone number:

**HENDERSON and McCARTHA**

Phone (305) 751-3459

P.O. Box 380396      Miami, Fla. 33138

Golf Courses Use More

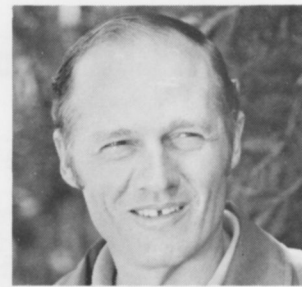
**MILORGANITE**

Than Any Other Fertilizer



# ASK THE DOCTOR

By MAX A. BROWN, Ph.D.



1. We plan to overseed our greens this year. What grass varieties and mixtures are suitable for this area? Pembroke Pines.

Dr. Harry Meyers, Extension Turf Specialist, has conducted overseeding tests in conjunction with golf course superintendents at various locations around the state for several years. He feels that many of the improved ryegrasses are well suited from the standpoint of quick germination, traffic tolerance, disease and heat resistance, and good appearance.

Pennfine Birdie and Manhattan ryegrasses have been the standards for several years but others such as Loretta, Caravelle, Cougar, Yorktown ryegrasses also look good, alone and in mixtures. Loretta has looked particularly good. Many superintendents prefer a mixture of grasses to one grass because of differing resistance to certain diseases.

My own personal preference for top quality, tournament-condition putting surfaces in this area is Penn-cross bentgrass either alone or as the predominant grass in a mixture. This grass is more difficult to establish and maintain than ryegrasses and does not tolerate traffic as well, but its putting quality is hard to beat.

2. How important is the use of Koban treated seed and is it necessary to use additional Koban treatments after seeding with treated seed? Pompano Beach.

Dr. T. E. Freeman, Professor, Plant Pathology Department, IFSA, relates that seed treatment with Koban is a very effective means of reducing Pythium disease activity in germinating seeds. A soil drench of Koban immediately after seeding is equally as effective. Either method is a good form of insurance in establishing a good stand of overseeding grasses.

Pretreatment of bermudagrass turf a few days ahead of seeding has little benefit in protecting germinating seeds; however, it may be beneficial in controlling Rhizoctonia or Helminthosporium diseases on bermudagrass.

Subsequent treatments with Pythium-controlling fungicides, such as Koban, should be used **only** when weather conditions dictate. Warm, humid **air**, little air movement and ground fog are prime conditions for Pythium development.

3. What are the proper procedures and rates for applying activated charcoal to Tifgreen bermudagrass for the purposes of winter growth? Ft. Lauderdale.

Dr. Harry Meyer's work at the University of Florida has shown activated charcoal to be a very effective deactivator of many pesticides and oils. It also has been quite effective in raising the temperature of cool soils by darkening the surface and increasing absorption of the sun's rays.

Activated charcoal is a very fine powder or black dust which is next to impossible to work with dry. Best results have been to make a slurry or suspension of the material in water. A much better suspension can be made by adding about 15 pounds of Attapulgate clay to each 100 gallons of water and charcoal mixture. The slurry can be sprayed onto the turf using a centrifugal pump and small flood-jet nozzles without screens. The suspension is quite abrasive and can destroy many piston and roller pumps in a few hours when too concentrated. It is too thick to flow effectively through normal flat spray nozzles.

Rate of application is between 2 and 5 pounds of charcoal per thousand square feet. Without clay no more than 2 pounds of charcoal per gallon can be suspended with by-pass agitation. With the use of clay, higher concentrations of charcoal can be used.

An effective program has been to apply charcoal at 2 pounds of material per thousand square feet every 2 weeks during cool weather. Late afternoon application, where possible, is best when it is allowed to dry on the leaves. This timing also gives less problems with golfer's white shoes.

## Florida Aquatic Weed Control, Inc.

LAKES and WATERWAYS MANAGEMENT

We Specialize in the Control and Maintenance of Noxious Aquatic Plants, Bankgrasses, Algae, Plankton, etc., in Lakes, Canals, and Waterways.

**GOLF COURSES OUR SPECIALTY!**

Operating in Dade, Broward, Palm Beach, Sarasota and Collier Counties. Call for a FREE ESTIMATE  
Customer List Furnished Upon Request

AQUATIC WEED CONTROL — OUR ONLY BUSINESS!!

320 South State Road 7, Suite 4

Fort Lauderdale, Florida 33317

Phone: (305) 792-1500

CAN YOU TOP THIS? . . .



DAMAGED TURF IN CENTER OF TEE

Answer on Page 14

## AV FUEL SYSTEMS CO.

Miami, Florida

PHONE (305) 667-0663

J. C. (JIM) THOMPSON

Sales/Service

**CLAYTON  
AUTOMATIC CONTROL VALVES  
(CLA-VAL)**

Golf Course Sprinkler Systems

Water Treatment Plants

Waste Disposal Systems — Well Fields

Water Booster Systems

**COMPLETE SERVICE & INSTALLATION**

**PARTS AND VALVES IN STOCK  
AVAILABLE**



**SOUTHERN MILL CREEK  
PRODUCTS CO., INC.**

**SERVING ALL OF FLORIDA**

**Tampa, Miami, Orlando  
Jacksonville**

**Dade  
635-0321**

**Broward  
525-0648**

**Tampa Office  
1-800-282-9115**

# "CHEMICALLY SPEAKING"

by PAUL DEETS  
Woodbury Chemical Company

## PRIMICID 4E, A NEW INSECTICIDE FOR FLORIDA TURF

On December 6, 1976, the State of Florida approved PRIMICID 4E for a special local need registration, Sod webworm and Chinch bug control on ornamental turf. PRIMICID 4E is an organophosphorus insecticide containing 4 pounds of active ingredient per gallon.

Extensively evaluated since 1973 by research personnel with the University of Florida, independent researchers and ICI technical representatives, PRIMICID 4E has provided outstanding control of the two major Florida turf insect pests. Sod webworm has been effectively controlled with as little as 1 lb. ai/A or  $\frac{3}{4}$  fl. oz./1,000 square feet. At this rate PRIMICID 4E has often given longer control than commercial standards. Four to six weeks control is being reported by golf course superintendents throughout Florida. PRIMICID 4E is registered at 1 to 2 lb. ai/A or  $\frac{3}{4}$  to  $1\frac{1}{2}$  fl. oz./1,000 square feet. The higher rate of PRIMICID 4E is suggested for heavy populations or when sod webworm is in advanced stages.

Chinch bug is also effectively controlled, but requires a slightly higher initial rate, 1.5 lb. ai/A or 1 fl. oz./1,000 square feet. In areas where chinch bug resistance to organophosphorus insecticides exist, it is likely that cross resistance to PRIMICID 4E will be noted.

Key to effective control of both Sod webworm and Chinch bug is thorough wetting of turf foliage. Gallonage required for thorough wetting has varied from 450 to 1,750 gallons per acre or 10 to 40 gallons/1,000 square feet. Density of turf mat (thatch) will dictate volume requirements, heavy mat requiring more spray volume than thinner turf. If lower gallonages are used then supplemental irrigation should follow the application of PRIMICID 4E. Testing has shown rates 8 times those mentioned for insect control to be non-phytoxic to major Florida turf species such as St. Augustine, Tifgreen, Bermuda grass and Common Bermuda grass.

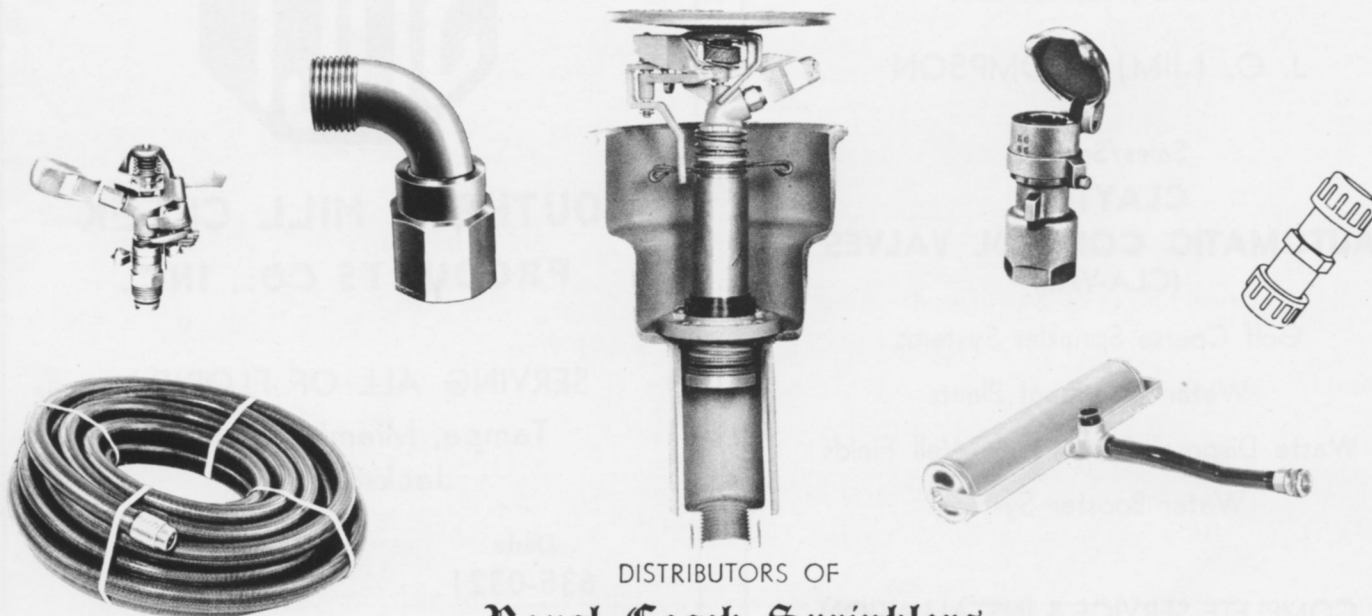
PRIMICID 4E at rates suggested for insect control has proven not to have significant effect on non-target species; however, as with all pesticides, misuse may pose environmental hazards. Applicators and handlers should follow manufacturer's and state's recommendations relative exposure to PRIMICID 4E; standard precautions assure safe and effective utilization. For specific information relative PRIMICID 4E, read the label; for additional information contact your nearest Florida Extension Service Agent, PRIMICID 4E Distributor of ICI United States, Inc., Agricultural Chemicals Division Representative.

# SOUTHERN IRRIGATION SUPPLY

2223 HAYES STREET

HOLLYWOOD, FLORIDA 33020

(305) 921-4993



DISTRIBUTORS OF

## Royal Coach Sprinklers

WE CARRY A COMPLETE LINE OF IRRIGATION EQUIPMENT.

TURF ACCESSORIES AND PARTS FOR ALL TYPES OF HEADS AND SOLENOID VALVES.

## From Our August Meeting ...



Past President Tom Burton enjoys lunch with Yuzzi and Winters as new president Leroy Phillips presides at "Boca Del Mar."

Aventura Personnel enjoy a round of golf after a work day. Employees here are urged to play so they will understand the course from the members viewpoint.

Aventura Management also sponsors Employees Tournament each year, with Julius Boros overseeing the affair.



Dick Lemmel receiving South Florida Golf Course Superintendents "President's Cup" for low net by a Superintendent. Harry McCartha (not pictured) won trophy for Commercial Members.

Panel members of August Meeting, Boca Del Mar C. C. — Subject was "Renovation of Golf Courses."

Pictured left to right, Dan Jones, Aventura; Dick Lemmel, Doral; Stanley Carr, Gulfstream and New President, Leroy Phillips.



# ATLANTIC

## SULPHUR COATED UREA

For That Deep Long Lasting Green  
Without Excessive Growth  
ATLANTIC SULPHUR COATED UREA  
Is the Answer!

Ask Your Atlantic Representative for the  
Formulations Available

**ATLANTIC Fertilizer & Chemical Co.**  
Homestead, Florida

In Dade 247-8800 All others 1-800-432-3413

## Stan Cruse and Associates

(813-722-4547)

Rt. 1 Box 402-X, Palmetto, Fla. 33561

### Golf Course Grassing Renovation

WE GROW  
AND  
INSTALL  
FLORIDA STATE  
CERTIFIED  
TURF-GRASSES



Custom  
Fumigation

Experienced,  
Knowledgeable People  
Providing Only  
The Highest Quality  
Workmanship

"Unconditionally Guaranteed"

Over Seeding Grasses of All Varieties

## Stan Cruse and Associates

(813-722-4547)

Rt. 1 Box 402-X, Palmetto, Fla. 33561

A Division of Pursley Turf-Grass

# "Pesticide Ban Will Cut Crop, But Raise Price"

by JOHN CHAMBERLAIN

OCTOBER IS, in poet John Keats' words, the season of mists and mellow fruitfulness. It is also the deadline month, this year, when the Environmental Protection Agency (EPA) will crack down on all currently registered pesticides that have not been registered under its guidelines.

Since, according to the Council for Agricultural Science and Technology in Ames, Iowa, it takes up to five years to complete the data collection and obtain a "minor-use" registration for even a pesticide already approved for major uses, what we will probably see is a long hiatus in which pest control in our farming regions is spotty. It won't be the season of mellow fruitfulness, it will be the season of scarcity and high prices.

This is the dilemma when we wax puritanical about regulation and controls. Nobody wants the risk of cancer, so the public can be impressed when the EPA says 123 pesticide products put out by 31 pesticide companies must be reexamined for possible carcinogens.

But nobody wants to starve, either. The EPA zealotry about "minor-use" registration for pesticides already approved for "major use" is particularly annoying to fruit and vegetable growers. Many of our apple, broccoli and tomato growers could be enjoined from using pesticides that will be perfectly legal for corn, soybeans, cotton and small grains, all of which come under the heading of "major" crops.

Instead of giving us a better variety in foods and a healthier diet, the EPA regulations promise to limit our choices. Unless certain fungicides are cleared for tomatoes, for instance, people who live in the more humid regions of the U.S. will be paying through the nose to cover the transportation costs of tomatoes grown in dry areas where leaf spot fungus does not flourish. This sort of impulse to price increases — and inflation — cannot be overcome by the Federal Reserve's manipulation of the interest rate; it is something beyond Arthur Burns' competence to control.

What we are faced with when the EPA October deadline hits us will be an intensification of much that we have experienced already. DDT once provided a relatively cheap pesticide control. It had its bad side effects, for it tends to persist in biological organisms. So there was a case for banning it, at least in regions that are not infested with malarial mosquitos. But when it went off the market it was replaced by sprays that has to be used at three-week intervals, at a \$200-a-gallon cost that had to be passed on to the consumer.

The University of Illinois Extension Service, in cooperation with the Illinois Department of Agriculture, recently experimented with growing nine crops — soybeans, two types of corn, broccoli, cabbage, tomatoes, potatoes, melons and sunflowers — under widely different conditions. The crops that were left untended couldn't be harvested. The rows getting purely mechanical weed control were bug-infested and yielded many partly devoured plants. The pesticide-controlled rows, on the other hand, produced an abundance that could be profitably sold at a relatively low price. Pesticides have enabled Americans to save some \$20 billion a year on their food bills.

So it's a benefit-risk equation that must be solved, and the EPA bureaucratic lags do not help us get to the bottom line. Our Puritanism-cum-laggardness even threatens the rest of the world, for the Agency for International Development (AID) is curtailing its shipments of pesticides for use in underdeveloped counties.

Since considerably more than a third of the world's food supply is destroyed each year by bugs, funguses and rodents, it seems absolutely senseless to force our Puritanism on people to whom hunger is a far greater threat than any remote possibility of being killed by food-carried toxins or cancer.

*\* Reprinted from the Fort Lauderdale News  
Our thanks to Milton Kelly, editor.*

## GCSAA'S SEMINAR

### NUTRITION I

#### PRINCIPLES OF FERTILIZER USAGE

This seminar will assist superintendents achieve the quality of golf turf that has become expected of today's golf courses through presentations concerning the many inter-relationships of soil, nutrients and plants.

St. Louis, MO - October 12-13

Allentown, PA - October 26-27

Ft. Lauderdale, FL - January 11-12

### LANDSCAPE

- Donver
- Rochester
- Meriden
- E. Lansing

### NUTRITION

- St. Louis
- Allentown
- Ft. Lauderdale

### MANAGEMENT

- Columbus
- Greensboro

## GCSAA SEMINAR REGISTRATION

Please register me for the seminar indicated at the left. My check, made payable to GCSAA Seminars, for \$\_\_\_\_\_ is enclosed (GCSAA Members \$50 each, non members \$70 each).

Name \_\_\_\_\_ No. \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cancellation Policy — Fee will be deducted as follows: 2 weeks prior to seminar 10%; 1 week prior 20%; 2 days prior 30%. No refund within 24 hours.

Mail this form and your check to: GCSAA Seminars, 1617 St. Andrews Dr., Lawrence, KS 66044

*black, rusty irrigation boxes belong in black, rusty grass.*

## Your turf deserves Plymouth boxes with "Ever-green" covers



Plymouth irrigation box covers feature molded-in green color. They blend in beautifully, eliminating cast iron or concrete eyesores in your turf.

Both box and cover are made of a strong, tough thermoplastic material developed specifically for underground use. They're lighter in weight, easier to handle and less brittle than cast iron or concrete enclosures.

The new 10" diameter box shown provides plenty of working area and features a twist lock cover. Boxes nest with or without covers for easy storage. Other models are available, including rectangular boxes with snap or pentagon locking mechanisms.

AMETEK, Plymouth Products Division, 502 Indiana Ave., Sheboygan, Wisconsin 53081. (414) 457-9435.

# AMETEK

## CHANDLER INDUSTRIES

PRECISION SHARPENING  
AND REBUILDING OF  
CUTTING UNITS  
ON ALL  
TURF EQUIPMENT

*Serving  
Dade, Broward and  
Palm Beach Counties*

285 N. E. 185th Street #11  
Miami, Florida

Bus. (305) 651-1148  
Res. (305) 264-0995



## Helping the superintendent through turf research...

- Controlled Release Fertilizers
- Fungicides - Herbicides - Insecticides
- Fertilizer/Pesticide Combinations
- Soil Testing - Weed & Disease Identification on

SCOTTS • LELY • GANDY SPREADERS

Finest quality turfgrass - Fairways • Greens • Tees • Roughs  
Scotts Windsor and Victa blends

## JERRY MILLS

8506 N. W. 23rd Manor  
Coral Springs, Fla. 33065  
Telephone: 305/753-1593

## BOB WILCOX

1261 S. W. 27th Place  
Boynton Beach, Fla. 33435  
Phone: 305/734-2277

# FROM THE NATIONAL...

## Who's Who at GCSAA Headquarters

### MEMBERSHIP SERVICES

James R. Brooks ..... Director of Membership Services  
Diana Green ..... Administrative Secretary  
Cheryl Anderson ..... Membership Secretary  
Jan McConnell ..... Membership Clerk  
Thelma Taylor ..... Membership Clerk

The Membership Services staff is responsible for the maintenance of all individual membership records. This maintenance includes change of address, processing of new membership applications and reclassifications and change of insurance beneficiary. Additionally, the department is responsible for annual dues billing and collection, membership certificate and business card orders, the employment referral service, speakers bureau, chapter relations and subscription billing for THE GOLF SUPERINTENDENT. Therefore, when you need to make any change in your membership records, have questions about membership services and benefits, the ERS, or recommending a potential member, ask for Membership Services.

### DEPARTMENT OF COMMUNICATIONS

Douglas H. Fender ..... Director of Communications  
Kay Nelson .... Secy. to the Director of Communications  
Diane Wilson ..... Associate Editor  
Carol Olivar ..... Advertising Mgr./Production Assist.  
Tricia Bork ..... Writer/Production Assist.

The staff of the Department of Communications is responsible for all aspects of production and circulation of THE GOLF SUPERINTENDENT, published ten times annually. Their responsibilities also include the bi-monthly and quarterly member newsletter, printing of GCSAA literature, and administration of the Association's public relations programs.

Members are encouraged to submit written articles, article suggestions, ideas or experiences for "Turf Talk," "The Thinking Superintendent," and "Photo Quiz." GCSAA is continually wanting to hear from the Membership with their ideas, suggestions, questions and criticisms.

### NOTICE:

The GCSAA math manual is now available. Entitled **The Mathematics of Turfgrass Maintenance** and compiled by Palmer Maples, Jr., GCSAA director of education, the 58-page soft cover book explains the mathematical calculations important to the operation of a golf course. It contains examples and sample problems of mathematics superintendents use every day.

The manual will be sent free of charge to GCSAA members who request it. Members should write GCSAA Membership Services, 1617 St. Andrews Drive, Lawrence, Kansas 66044, to request a copy.

Copies will soon be available to non-members at a price to be determined at a later date.

### ANSWER TO CAN YOU TOP THIS?

Golfer drove his golf car right up on the tee parked it, go out and teed up, hit the ball, jumped back on the car, took off at full speed. Estimated time lapse 1 and one half seconds. Proof of his feat are the skid marks of his wheels as he took off.



Div. of Lakeshore Equipment & Supply Co.  
300 So. Abbe Rd., Elyria, Ohio 44035  
(216) 323-7544

## HOME OF LESCO PRODUCTS

Replacement Parts  
Tires  
Batteries  
Lapping Compound  
Irrigation Supplies

Insecticides  
Fungicides  
Herbicides

Tee & Green Accessories  
Safety Equipment  
Rain Gear  
Pressure Washers  
Tire Changers

LESCO Products Catalog Available On Request

PHIL GARDNER

BOCA RATON, FLORIDA

305 994-0122



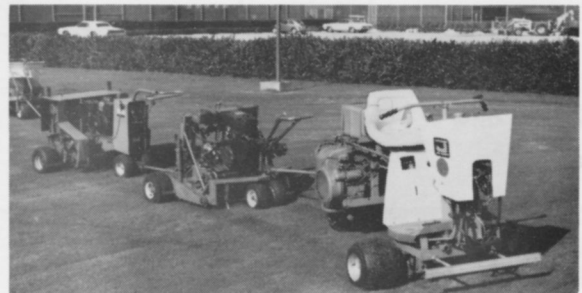


# 'SUPER' ideas . . . . .

*Innovative ideas by South Florida Superintendents and their staffs . . .*



*George Healey, Shop Superintendent demonstrates "reclaimed" Tri-Plex, hauling dragmat . . . also used to pull mat on green.*



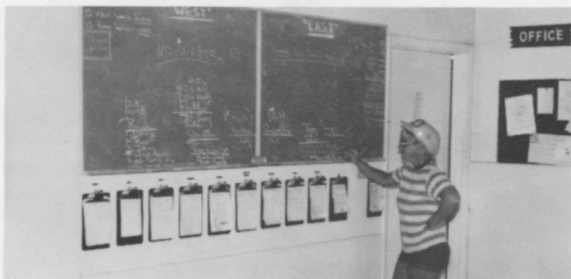
*"Tri-Plex Tractor" hauling two aerifiers to work area.*



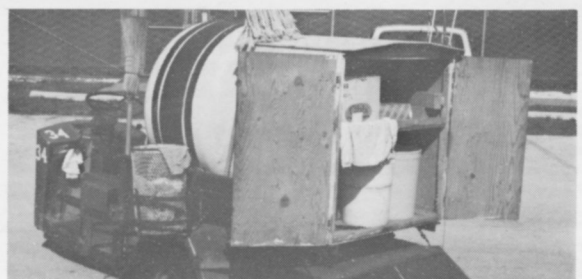
*Two Top-Dressers in tow.*



*Healey's extension of hitch to keep fairway units from hitting tractor tire on turns.*



*Debbie Wnters, Joe Yuzzi's assistant checks work schedule for both courses at "The Woodlands" (Ft. Lauderdale). Each piece of equipment has its own clip board.*



*Spray-Unit conversion — now used for service comfort facilities on grounds.*

*THIS PAGE IS A NEW FEATURE . . . showing ideas conceived by South Florida Superintendents and their staffs. If you want to share your "SUPER" Ideas with others please contact Dan Jones or Harry McCartha and we'll come to your course.*

## **ATLAS PEAT & SOIL, Inc.**

P.O. BOX 867      BOYNTON BEACH, FLA.

CALL  
COLLECT

1-305-732-8959

### **Top Dressing . . . Top Soil . . . Trap Sand**

# Hooks and Slices

Storks are lucky. They never have to make pick-ups . . . just deliveries.

Cosmetics are a woman's way of keeping a man from reading between the lines.

Middle age is when you know all the answers and nobody asks you the questions.



God made just so many perfect heads . . . The rest he covered with hair.

Ask not. Get not.

Behold the warranty, the bold print giveth, the fine print taketh away.

If the shoe fits, it's out of style.

## IECO

665 Mokena Drive  
Miami Springs, Florida 33166 / 305 888-8489



### HYDRAULIC POWER 5/7 GANGS

5-unit 3.35 m (11 ft.)      7-unit 4.57 m (15 ft.)

- \* Hydraulic power allows one to seven units to be used separately or collectively
- \* Hydraulic power lifts all units in and out of work and drives all cutting cylinders.
- \* Heavy duty, 6-knife cutting units as standard or alternative floating head 8-knife cutting units for undulating conditions, especially recommended for golf course fairways.
- \* Forward and reverse drive to cutting cylinders. Reverse drive allows back lapping for maintaining a keen edge on the cutters.
- \* Height of cut ranges from 13mm to 90mm (½ in. to 3-9/16 in.)
- \* Positive and precise cylinder to bottom blade adjustment.
- \* Totally enclosed, precision cut gear drive to cutting cylinders.
- \* Designed for easy mounting to tractors having category 1 or 2 linkage, 1-3/8" diameter 6-spline pto shaft with suitable mounting for pump gearbox and minimum of 34 hp at pto.
- \* Floating Head units with front and rear rollers for the ultimate cut on fairways.

## Woodbury Chemical Company

"THE SERVICE SUPPLIER"



LLOYD M. GRAY  
GEORGE JONES

PRINCETON, FLORIDA  
305/247-0524  
1-800/432-3411

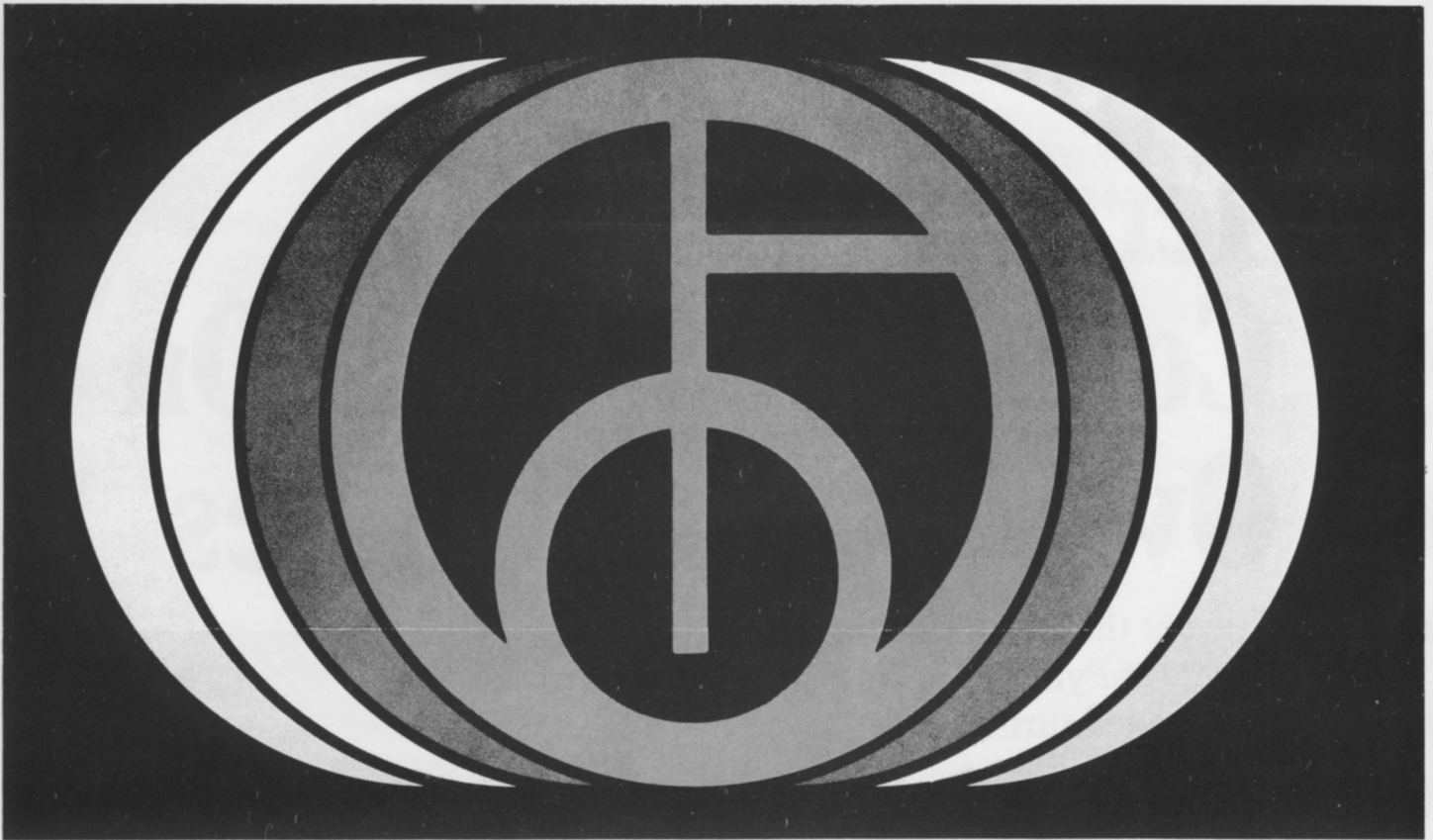
## SCOTT, PALMER, ANDERSON, INC.

CLEWISTON, FLA.

DR. ANDERSON'S TOPDRESSING  
QUALITY ORGANICS FOR QUALITY GOLF COURSES

Phone: 1 - 813 - 983-7255

Call before 8:00 A.M.



## GCSAA 49th International Turfgrass CONFERENCE AND SHOW

February 12-17, 1978

San Antonio, Texas

"ECONOMY THRU IDEAS" is the theme for the premier turfgrass industry conference and show, sponsored by the Golf Course Superintendents Association of America. This is a once-a-year opportunity for turfgrass managers, educators and industry representatives to learn about and share the latest ideas and developments in turfgrass management, services and equipment. Ex-

hibits featuring new products for the turf industry will be open February 14-16; the conference will be in session February 12-17. This is the place for you to meet the other people who make the turfgrass industry dynamic and to capture dollar-saving ideas. See you in San Antonio in '78.

### Conference Highlights

- preconference seminars
- certification examination
- general education sessions
- special interest assemblies
- turfgrass industry show
- annual meeting and election
- golf course tour
- ladies' program
- social events

Brochures and registration materials for GCSAA's 49th International Turfgrass Conference and Show will be mailed to all GCSAA members October 1. Others may use this coupon to request the materials.

Send 1978 GCSAA Conference and Show materials to:

name \_\_\_\_\_

address \_\_\_\_\_

city \_\_\_\_\_ state \_\_\_\_\_ zip \_\_\_\_\_

club/firm \_\_\_\_\_

Mail this coupon to: **GCSAA Headquarters**  
**1617 St. Andrews Drive**  
**Lawrence, Kansas 66044**

# Tersan<sup>®</sup> SP Safely fungicide Controls Pythium On Overseeded Grasses

Prevent the ugly, devastating effects of Pythium in your overseeded turf this year by spraying Tersan<sup>®</sup> SP. Normally, the disease shows up when high temperatures, high humidity and wet weather prevail. So act quickly, spray Tersan<sup>®</sup> SP as soon as you see Pythium symptoms and repeat as needed. You'll stop the damage and keep your turf safe from future Pythium problems.

## *For more information contact:*

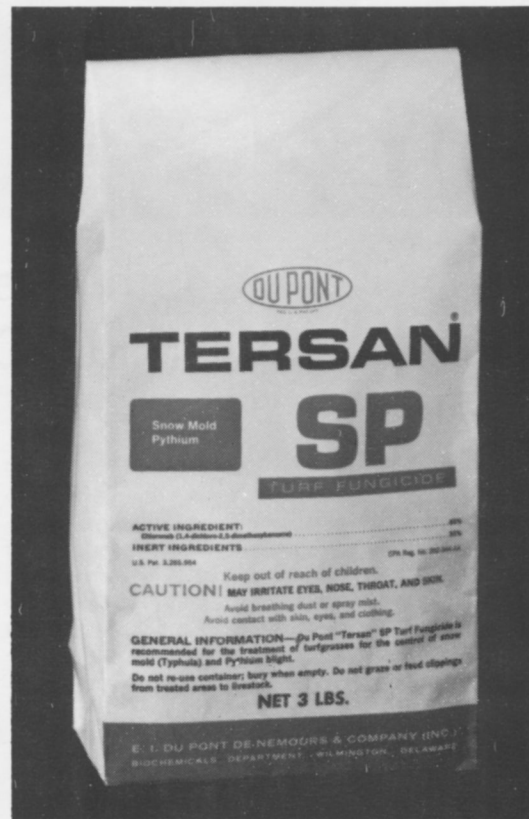
Mike Borel  
2703 Washington Ave.  
Star Rt. 1, Box 594  
Eustis, FL 32726  
904-357-1261

Clem Clement  
1030 NW Sixth Terrace  
Boca Raton, FL 33432  
305-395-9397

Don Ganske  
7049 New Post Dr. NE-8  
N. Ft. Myers, FL 33903  
813-997-0022

Bill Irey  
7821 SW 134th Street  
Miami, FL 33156  
305-233-1496

Dick Reasons  
13604 Westshire Dr.  
Tampa, FL 33618  
813-961-3796



**DU PONT** Turf Products  
REG. U.S. PAT. & TM. OFF.

# Recently...



1977-79 BOARD OF DIRECTORS INSTALLED

Left to Right, Tom Burton, President Emeritus; Al Weitzel, Director; Fred Klauk, Secretary-Treasurer; Phil Amminn, Director; Vincent Spano, Director; Leroy Phillips, President; Dan Jones, Vice President.



Past President Mike Barger received thanks for 7 years of continuous Board Service.



President Tom Burton (right), spoke with guest speaker Harry Eckhoff of National Golf Foundation.



President Emeritus Tom Burton passed gavel to President Leroy Phillips.

## MALLINCKRODT

The Complete Line... The Quality Line

# Turf Products



**FUNGO®** Prevents and controls turf diseases without discoloring fine turf.

**CADMINATE®** Economical — effective — for dollar spot, copper spot, red thread. Even for fairways.

**CALO-CLOR®** Great mercurial fungicide for snow mold control.

**KOBAN®** Absolute "tops" for Pythium control.

**KROMAD®** Broad spectrum fungicide controls five major turf diseases plus minor ones.

**PRE-SAN®** Pre-emergence herbicide for crabgrass, goosegrass, poa-annua control.

**VITALON®** Turf colorant — instant life-like color for dormant or off-color grass and foliage.

**AURAGRASS®** Turf Dye to "touch-up" off-color grass or as spray "indicator".

**CALO-GRAN®** The dry granular mercurial fungicide for snow mold control.

**THIRAMAD®** 75% Thiram fungicide.

**TREX-SAN®** Broad spectrum broadleaf herbicide. Controls or eliminates more than 35 broadleaf weeds.

**PO-SAN®** Unique growth retardant for post-emergence fairways poa-annua control.

**SPRAY-HAWK®** Calibrated mobile turf sprayer for accurate, uniform, fast turfgrass spraying.



**MALLINCKRODT, INC.**  
St. Louis • Jersey City • Los Angeles

"See your nearby Mallinckrodt Representative"

**JOHN BIRK**

#12 Bonsai Drive, Delray Dunes  
Boynton Beach, Florida 33436 (305) 732-2245

# EDITORIAL

As budget time draws closer, superintendents must pause and do some real soul searching. Are we swimming, treading water or being swept down stream by the fast moving currents of inflation, employee demands or (so called) management indifference. Let's look at these three areas and see if we can control our destiny.

Fast moving currents — Inflation is increasing at an alarming rate. We must expand our base of suppliers to get not only the best price, but the most service for the dollar spent.

Labor now makes up 75% of our budgets (up from 60% in 1967). This is where we must concentrate our efforts. By having more modern equipment, and better trained and educated employees, we can hold our budgets within reasonable limits.

Treading water — Webster defines treading water as "to keep the head above water by moving the legs up and down." How many of us have reached this point in our careers. This is usually caused from negative feelings. We must keep a positive attitude to deal with today's problems. Look at next year's budget as a time for setting personal goals. Be realistic!

Swimming — Webster defines swimming as "the art of moving smoothly through water." This is the category into which most superintendents fall. They keep themselves informed. They attend local, state and national meetings. They continually educate themselves both technically and management wise. Lastly, and probably most importantly, they keep management well informed of their operation.

Be well informed. Keep a positive attitude. Communicate with management. Three keys for success in 1978.

## A NEW ADDITION TO JACOBSEN'S FAMOUS LINE OF MOWING EQUIPMENT



Jacobsen has combined two proven, dependable, time tested products with hydraulics to give you the first complete hydraulic mowing tractor — Jacobsen HF15.

The HF15's hydraulic reels provide you with excellence of cutting on formal turf with high and low range reel frequency.

And to help you maintain a regular mowing schedule, the Jacobsen HF15 also cuts in soft and wet ground conditions.

Out front mowing for time saving maneuverability and patented reel unit suspension for full articulation and smooth cut.

### DE BRA TURF & INDUSTRIAL EQUIP. CO.

1551 South 30th Ave.  
Hollywood, Florida 33020

921-1919 Hollywood  
659-4533 Palm Beach

Miami 947-5443  
Deerfield 427-7616



## TWENTY-FIFTH ANNIVERSARY CONFERENCE AND SHOW

OCTOBER 16-19, 1977  
SHERATON TOWERS HOTEL  
ORLANDO, FLORIDA

### "THE CRITICAL PATH"

EQUIPMENT

WATER

MANAGEMENT: PART I

ORNAMENTALS

AQUATIC WEEDS

MANAGEMENT: PART II

DISEASES OF TURF AND ORNAMENTALS

FERTILIZERS

TERRESTRIAL WEEDS

INSECTS & NEMATODES

**THE LARGEST WARM SEASON TURF-GRASS CONFERENCE IN THE WORLD**

For Information Contact:  
FT. GA Executive Office  
1520 Edgewater Drive, Suite E  
Orlando, FL 32804  
(305) 425-1581