

A fertilizer should be as unique as the golf course it nurtures. That's why LESCO manufactures a complete line of top-quality sulfur-coated fertilizers in three distinct particle sizes. Elite. Mini. Standard.



LESCO Mini-Particle Fertilizer

Formulated for use on turf maintained at one-half inch or higher, the LESCO mini fertilizers provide three times as many particles per given area as the standard LESCO products. The mini particle size offers a uniform distribution pattern that provides even feeding and consistent greening.



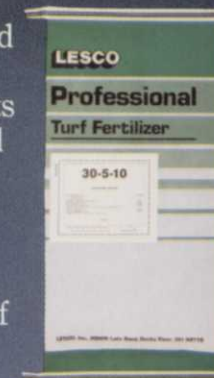
LESCO Elite Fertilizer

Providing 11 times more particles per given area than standard LESCO fertilizers, the Elite products are formulated for use on turf maintained at a height of less than one-half inch. To enhance plant response and provide a more complete and balanced fertilization, iron and manganese are bonded to every sulfur-coated particle. Both the primary and the micronutrients are uniformly distributed to the plant because every sulfur-coated particle also contains iron and manganese. And with LESCO Elite fertilizers, the chance of mower pickup is virtually eliminated.



LESCO Standard-Particle Fertilizer

Best suited for use on turf mowed above one inch, the LESCO line of standard products offers all the efficiencies and benefits of quality sulfur-coated fertilizers. Controlled nutrient release for up to 90 days provides consistent feeding and steady greening. Use of LESCO sulfur-coated fertilizers reduces the risk of burn and decreases the loss of nitrogen through leaching and volatilization.



Not all fertilizers are created equal. Choose the particle size that's right for your course and talk to your LESCO sales representative about the wide variety of analyses available for quick shipment and forklift delivery from our Sebring, Florida production facility. And ask, too, about the new greens-grade soil amendments and fertilizer/control product combinations.



LESCO has a fertilizer for your Florida golf course. Contact your sales representative or call (800) 825-3726 today.



LESCO, Inc., 20005 Lake Road, Rocky River, Ohio 44116 • (216) 333-9250

**Not all
fertilizers
are created
equal.**



You're on a mission that could decide the fate of your golf course. A mission against your toughest weeds: goosegrass, crabgrass, sandbur and many other broadleaf weeds.

That's why you need a pre-emergence herbicide as powerful as Surflan. It puts an end to weeds before they start.

It's a challenge a lot of other herbicides run away from. But not Surflan. It stays put and waits. Three weeks if need be, without water. Then it won't wash out, even in heavy

rainfall. And once activated, it forms a solid control zone that lasts up to 20 weeks.

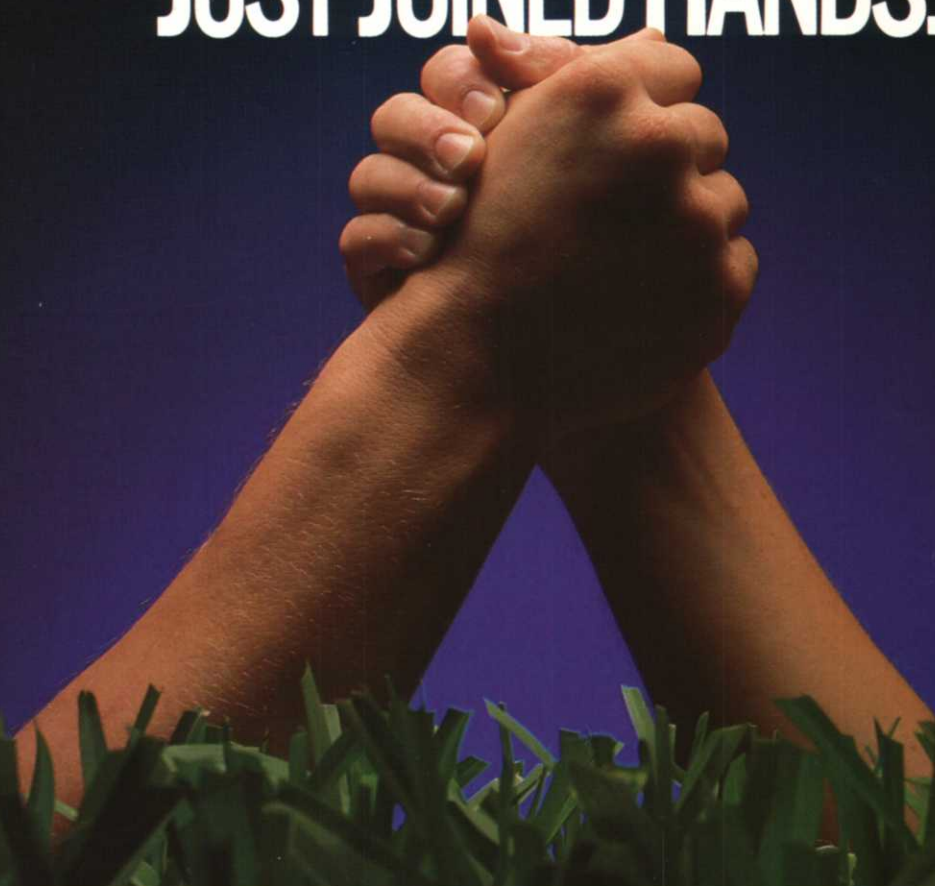
So be in control this year. Take Surflan to the far reaches of your golf course and end the threat of problem weeds. See your Elanco distributor. Or call toll-free: **1-800-352-6776**.

Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Dept. E-455, Indianapolis, IN 46285, U.S.A.
Surflan® — (oryzalin, Elanco)



Surflan.®
Its 20-week mission:
seek out problem weeds
and prevent their germination.

TWO OF THE BEST NAMES IN GOLF COURSE MAINTENANCE JUST JOINED HANDS.



Buckner

When it comes to excellence in Florida golf course irrigation, you've got to hand it to DEBRA. We've just joined forces with America's oldest and most innovative irrigation equipment manufacturer: Buckner.

On the one hand, there's the Buckner COPS-4, a totally integrated computer irrigation system that operates totally off-line – using your own personal computer and our field controllers which can be used with, or independently of, your PC. Of course, the system allows communication between computer and field controllers and gives you state-of-the-art lightning protection.

On the other hand, there's the new Buckner pressure-regulated Electric or Hydraulic Valve-

In-Head Cam Rotor which, when combined with the COPS-4, gives you the lowest-maintenance system available today. You can be sure Buckner heavy-duty cam rotors meet your water management requirements for low pressure and a high co-efficient of uniformity.

There's only one place in Florida to find these Buckner solutions to water management: DEBRA. So before you go anywhere else, give us a call or write for a brochure with complete specs. When it comes to quality, service and experience, DEBRA and Buckner definitely have the upper hand.

DEBRA

DEBRA
Turf & Industrial
Equipment Company

Ft. Lauderdale
901 N.W. 31st Avenue
33311
(305) 792-6005
(800) 432-0066

Ft. Myers
12090 Metro Parkway
33912
(813) 768-3188
(800) 537-1484

Palm City
3913 S.W. Bruner Terrace
34990
(407) 288-4838
(800) 233-7361

Sarasota
1555 Apex Road
34240
(813) 377-5081
(800) 347-3327

Tampa
6025 Highway 301 North
33610
(813) 621-3077
(800) 433-1501

Destroy the evidence or suffer the consequences.

The Cushman® Core Destroyer™ is the only effective means of providing quality play soon after fairway aeration. Use anything else and you'll have unhappy golfers on your hands. If you're going to aerate, do the whole job right. Get a Cushman Core Destroyer and *totally* pulverize cores at up to 6 mph.

Comes with FREE mowing deck. Order a Cushman Core Destroyer and a liquid-cooled gas or diesel Front Line tractor before September 30, 1990, and



you can have your choice of a 60" or 72" mowing deck free! It's the perfect way to get maximum mileage out of a Front Line tractor that's not afraid to go head-to-head with anything else on the market. For all the facts and a convincing demonstration, contact your Cushman dealer or call toll-free 1-800-228-4444 today.



CUSHMAN
BUILT TO LAST

**The Everglades Chapter
of the Florida Golf Course
Superintendents Association
wishes to thank
the following sponsors
of the 1990 Poa Annua Classic:**

Hole in One

B&W Golf Cars
DeBra Turf & Industrial Equipment
E. R. Jahna Industries
Florida Irrigation Supply
Lesco
Liquid Ag Systems Inc.
Neff Machinery
Rhone-Poulenc Ag. Co.
South Florida Turf
Suniland Corp.
Van Waters & Rodgers
Wesco Turf Inc.
Wheeler Fertilizer

Eagle

Ag Resources
Asphalt Maint. Ent. Inc.
Auto Flow/Systematic Service
Boynton Pump & Irrigation Supply
Central Florida Turf
Dow Elanco
Harrell's
Hunter Industries
Milliken Chemical
Mobay Corp.
Nematode Controllers Inc.
Northrup King Co.
Southern Embroidery
Sustane Corp.
Total Care Tree Service
Turf Merchants Inc.
Woodbury Chemical

Birdie

Andy's Plant Aids, Inc.
Golf Ventures, Inc.
Lippold Turf & Golf Course Renovation
Metro Electric Works
Nutri-Turf, Inc.
Sandland Equipment Co.
The O.M. Scott & Sons Co.

Par

Almar Chemical Co.
AmerAquatic
DuCor International Corp.
Valent U.S. A. Corp.



Officers

President **Joel Jackson, CGCS**
 Isleworth Country Club
 Address FGCSA business to:
 6780 Tamarind Circle
 Orlando, FL 32819
 (407) 363-4514

Vice President **Ray Hansen**
 Del Aire CC
 4645 White Cedar Lane
 Delray Beach, FL 33445
 (407) 495-0536

Secy/Treasurer **Thomas Benefield, CGCS**
 BallenIsles CC of JDM
 10600 Ave of PGA
 Palm Beach Gardens, FL 33418
 (407) 622-0177

Past President **Cecil Johnston, CGCS**
 Green Valley, Ltd.
 Thailand

Directors

Ridge **Buck Buckner**
 Orange Tree Golf Club
 (407) 352-0330

Everglades **Lou Conzelmann, CGCS**
 Fiddlesticks
 (813)768-2332

West Coast **Frank Cook**
 Bardmoor Country Club
 (813) 392-1234

Palm Beach **Paul Crawford**
 Palm Beach Country Club
 (407) 845-2395

Big Bend **Robert Giehls**
 Killlearn G&CC
 (904) 893-2412

South Florida **Bill Jeffrey, CGCS**
 Indian Creek Country Club
 (305) 866-7224

Sun Coast **Larry Livingston, CGCS**
 Gator Creek Golf Club
 (813) 922-0833

Central Florida **Joe Ondo, CGCS**
 Winter Pines Golf Club
 (407) 671-1651

Treasure Coast **Scott Bell**
 Bent Pine Golf Club
 (407) 567-9422

North Florida **Eddie Snipes, CGCS**
 Oak Bridge Club at Sawgrass
 (904) 285-5552

Staff

Secretary **Marie Roberts**
 1760 NW Pine Lake Dr
 Stuart, FL 34994
 Phone: Days (407) 692-9349

CONTENTS

SUMMER 1990



NEWS ROUNDUP FTGA WANTS FACILITY AT UF 13

The Florida Turfgrass Research Foundation wants to construct a \$700,000 Envirotron on the UF campus in Gainesville. If the FTRF can raise \$350,000 by March 15, the state will pay the rest.

COVER STORY CORAL OAKS MUNICIPAL GOLF COURSE..... 25

The City of Cape Coral not only has an outstanding Arthur Hills layout; it didn't cost the taxpayers a dime.

FGCSA SPOTLIGHT BEST OF BOTH WORLDS 32

Pictorial visits to the South Florida GCSA Field Day and the Everglades GCSA Poa Annuu Classic, plus a profile of the new maintenance technician for the research putting green at the UF's Fort Lauderdale Research and Education Center.

HANDS ON REBUILD AND SAVE \$200,000 36

Mechanics at Boca Woods CC saved their members more than \$200,000 by rebuilding most of the club's maintenance equipment.

ARCHITECTS, ETC. PRINCE OF NAPLES 46

Arthur Hills doesn't get the recognition his work deserves, says architecture editor Brad Klein.

RESEARCH GRAY WATER ON THE GREEN 54

Graywater on the green and success of the mole cricket-fighting red-eyed fly in Bradenton are the top stories of the second quarter, says research editor Darcy Meeker.

SUPPLY SIDE GOLF'S OWN IMAGINEER 66

Walt Disney would have loved Tom Mascaro. He's the turf industry's own "Imagineer."

AFTERWORDS FLORIDA'S DROUGHT 77

The days of unlimited water use are over and treated effluent is the best hope for irrigating golf courses, says editorial consultant Dan Jones, CGCS.

The Florida Green

Official Voice of the Florida Golf Course Superintendents Association

editor **Joel D. Jackson, CGCS**
Isleworth CC, Windermere
Address Florida Green business to:
6780 Tamarind Circle, Orlando, FL 32819
(407) 363-4514

assistant editor **Tom Benefield, CGCS**
BallenIsles CC of JDM
10600 Ave of PGA
Palm Beach Gardens, FL 33418
(407) 622-0177

FGCSA
publications chairman **Ray Hansen**
Del Aire CC,
4645 White Cedar Ln.
Delray Beach, FL 33445
(407) 495-0536

Janlark Communications

Janlark Communications, Inc., publishes The Florida Green on behalf of the Florida Golf Course Superintendents Association, which sets all policies. Day-to-day business of the magazine is conducted by Janlark.

publisher/executive editor **Larry Kieffer**
copy editor **Janetta Kieffer**
architecture editor **Brad Klein**
research editor **Darcy Meeker**
editorial consultant **Dan Jones, CGCS**

Resources

photography **Brian Everhart**
536 Ave. A, NE
Winter Haven, FL 33880
(813) 293-2554

layout and graphics **earthbase, inc.**
4630 S. Kirkman
Orlando, FL 32811
(407) 872-1880

typesetting **Typesetting Today, Inc.**
2180 Park Ave. North, Suite 324
Winter Park, FL 32789
(407) 740-7170

color separations **Dimension, Inc.**
1507 West Cass St.
Tampa, FL 33606
(813) 251-0244

printer **Phoenix Press, Inc.**
11222 Astronaut Blvd.
Orlando, FL 32821
(407) 859-9499

COPYRIGHT NOTICE: Copyright 1990, Janlark Communications, Inc. All rights reserved. May not be reproduced in whole or in part without written permission of the publisher. EXCEPTION: Official publications of all golf course superintendent associations affiliated with the Golf Course Superintendents Association of America are welcome to use any material contained herein provided they give credit and copyright notice.

ADVERTISING: For rates and information, contact Janlark Communications, Inc. Fall issue closes Aug. 15; Winter issue closes Dec. 1.

EDITORIAL: Opinion columns and letters to the editor should be directed to the superintendent-editor, Joel Jackson, CGCS. News releases and all other inquiries should be directed to Janlark Communications. Unsolicited manuscripts and photographs cannot be returned.

POSTMASTER: Address correction requested. Please send all address corrections to Florida Golf Course Superintendents Association, 1760 NW Pine Lake Drive, Stuart, FL 34994.

JANLARK
COMMUNICATIONS, INC.

1206 Kimberle Court, Auburndale, FL 33823
813-967-1385 Fax 813-965-1734

Advertiser Index

Almar Chemical	42	Lake Doctors	8
American Cyanamid	65	Lantana Peat & Soil	72
AmerAquatic	64	Lebanon Chemical	15
Ametek	47	Lesco	1,C3-4,C-6
Aquatic Systems	53	Liquid Ag	21
Aquatrols	18	Lofts Seed	57
Atlantic FEC	69	Mike Young Designs	70
Carroll Childers	63	Milliken Chemical	31
Central Florida Turf	61	Mobay	58
Chemical Containers	62	Northrup King	40
Club Car	11	Nutri-turf	8
Cushman	4,22,26	Proseed	64
DeBra Turf Equipment	3,60	Rayside Truck	41
Delray Stake	8	Rhone-Poulenc	24
DNA Enterprises	18	Snapp Tree Service	56
Douglas Products	14	South Florida Grassing	19
Dow Elanco	2,45,C-5	South Florida Turf Products	68
DuCor Chemical	61	Southern Concrete & Paving ...	79
Duda Sod	53	Spread Rite	73
Estech	39	Standard Sand & Silica	42
Everglades GCSA	5	Sunniland	29
FiltoMat	20	Sustane Corp	70
FloridaNurseryman	78	Tom Burrows Turfgrass Svc ...	73
Florida Plant Clinic	73	Turfmark	49
Florida Waterway Mgt.	62	Valent	33,43
Florida Silica Sand	73	Wesco Turf	68
FTGA	76	Wholesale Landscape Supply ...	71
Golf Ventures	10	Woodbury Chemical	17
Haverland Blackrock	12	Zaun	56
Hector Turf	Insert		
Hertz Equipment Rental	35		
Hoechst Roussel	51		
Jahna Sand	16		

Welcome (back) !

The following companies are advertising in *The Florida Green* for the first time. . . or, in some cases, have returned to our pages after an absence of a year or more.

American Cyanamid	65	FTGA	76
Aquatic Systems	53	Golf Ventures	10
Carroll Childers	63	Mike Young Designs	70
Everglades GCSA	5	Proseed	64
Florida Nurseryman	78	Turfmark	49
Florida Plant Clinic	73	Wholesale Landscape Supply ...	71
Florida Waterway Mgt.	62		

CYPRESS MULCH

Economical Bulk Loads
or
Convenient Bags

Wood Stakes
• SURVEYING
• CONSTRUCTION
• LANDSCAPING
• FARMING

DELRAY STAKE AND SHAVINGS INC.

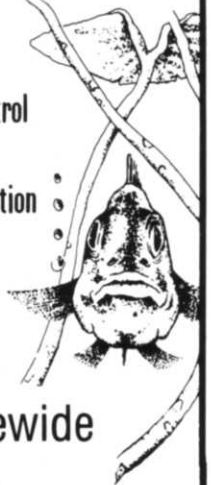
9500 W. Atlantic Ave.
Delray Beach, Florida 33446
(305) 737-6458

Lakes have feelings too. Treat 'em right.



WE PROVIDE:

aquatic weed and algae control
lake clarification
fountains, parts and installation
fish stocking
aquascaping
free estimates



Serving Florida Statewide
1-800-666-5253

The Lake Doctors, Inc.

Aquatic Management Services

Premium Quality Sod & Sprigs



Nutri-Turf, Inc.

ONE OF THE ANHEUSER-BUSCH COMPANIES

This Turf's For You!

- Premium Grade Tifgreen (328)
- Premium Grade Tifway (419)
- Premium Grade Tifdwarf
- Premium Grade Tifway II

16163 Lem Turner Road
Jacksonville, FL 32218-1550
(904)764-7100
1-800-329-TURF (In Florida)

Research and communication will win the day

The challenges to our industry to show that we are properly managing turfgrass in an environmentally sound manner are accelerating at a phenomenal pace. We must continue to demonstrate our professionalism through responsible management practices and through our involvement with our associations to

help educate our legislators and the general public. We must seek alternative methods and resources, and be ready to

change our practices if research dictates that changes are needed.

We are suffering the slings and arrows of ambiguous, ill-conceived regulations and sensationalistic journalism. The current factual data is on our side, but we need more! Our

current research efforts are focused in that direction to help allay the fears of the public. We will continue to communicate to them what an amazing, beneficial ecosystem a properly maintained and operated golf course provides.

The pressure on golf course superintendents is increasing. Golfers, club members, managers, and owners must also be aware of this pressure. This is the time to strengthen the relationship between the club and the superintendent. This is no time to

sweep issues under the carpet, hoping they will go away. The liability factor is closing in on all operations, and everyone needs to be aware of his legal responsibilities. Setting up organized, positive programs established to comply with current laws will reap the reward of improved communications within the club and help avoid potential crippling fines and negative publicity.

There is no greater time than the present for superintendents to become more involved in their local and national associations. There continues to be an unwarranted number of unbelievable stories of instances of ignorance and malpractice in our industry. There just isn't more room for those kinds of errors of omission or deliberate circumvention of label restrictions or other regulations. Make sure you or your superintendent is a member of his local association and that things are in order or are being put in order.

By the time this issue is in your hands, I will have only a few days left in my term as president. It certainly has been an eventful year for me, beginning with open-heart surgery in the fall, hosting the GCSAA Conference and Show in the winter, and assuming editorship of the *Florida Green* in the spring. Those events, coupled with the ongoing challenge of managing bentgrass greens

continued on page 12



Joel D. Jackson
Joel D. Jackson, CGCS

The best in the business . . . of Golf



To be a golf course superintendent you need the skill of a brain surgeon, the predictable performance of a weather forecaster, and the product knowledge of Golf Ventures.

If it's golf course related and you need it, we have it.

If not, we'll get it!

We service over 500 of the finest golf courses in Florida and S.E. Georgia.

THE BEST IN THE BUSINESS OF PRESERVING YOUR GOLF COURSE INVESTMENT

FERTILIZERS & SOIL AMENDMENTS

Lykes Agri Sales
Ringer Turf Products
Liquid Ag Systems Inc.
Dakota Reed - Sedge Peat

CHEMICALS

Helena Chemical Co.

SEED

Pickseed West Inc.

EQUIPMENT

Club Car Carryall
Daihatsu Hijet
Florida Sprayers Inc.
Crosley Trailers
Easy Picker Driving Range Vehicles

ACCESSORIES

Cylex Granite Signs
Southern Screen & Embroidery Flags
Standard Golf Co.
Lewisline American Eagle
Par Aide Products
Fox Valley Marking Paints
Rainjet Fountains
Lundrain Drainage Material
Spyker Spreaders
Master of the Links Wood Products
Hole-in-White (Cup Brightener)
Clover Lapping Compound
Pagecom Radius Radios
RedMax Reciprocators

2582 OLD COMBEE ROAD • LAKELAND, FL 33805
1-800-330-8874 • (813) 665-5800 • Fax 667-0888

Golf Ventures



a complete line of golf course products