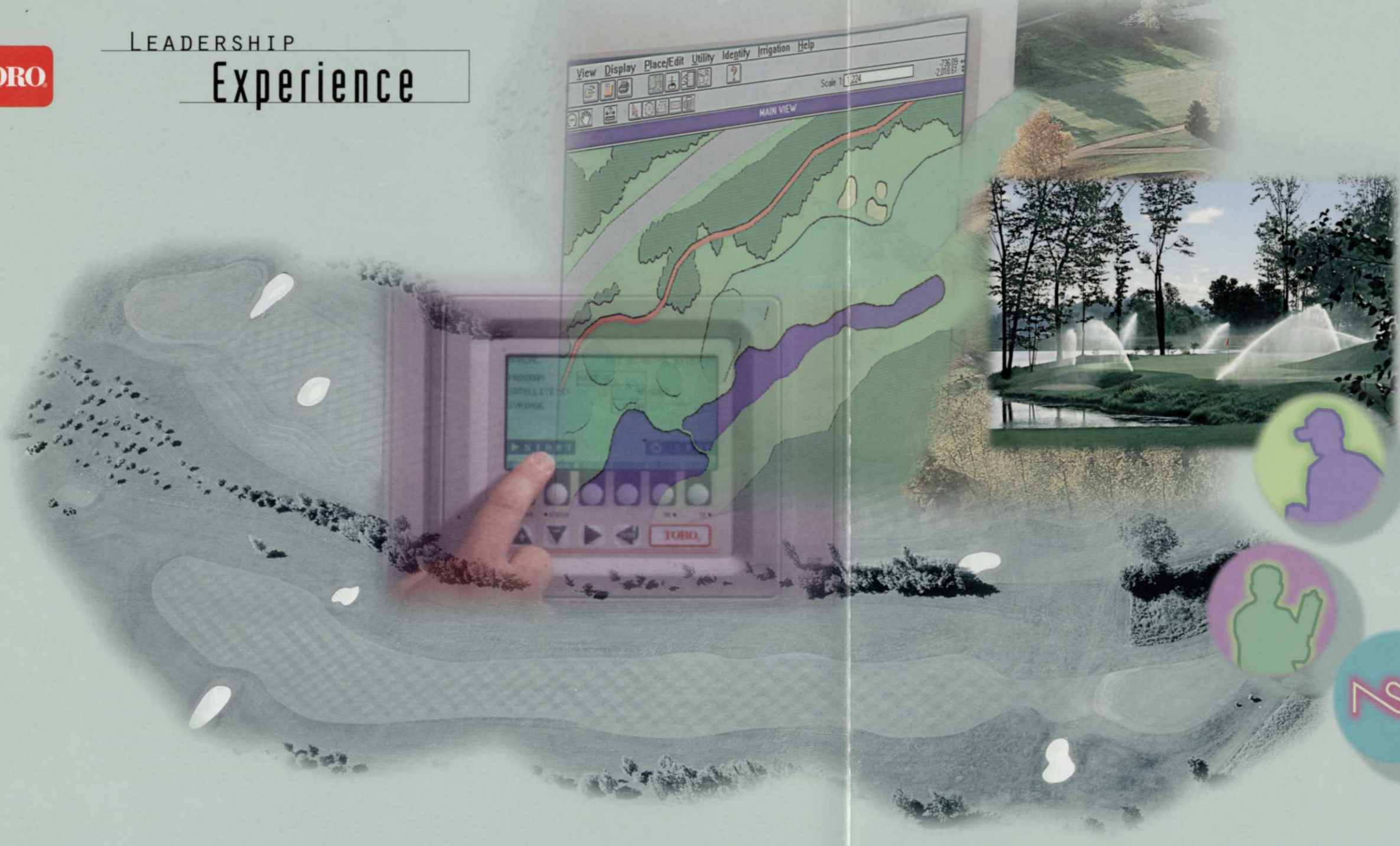




LEADERSHIP

Experience



In an industry where tradition is sacred, experience essential and innovation vital, the Toro reputation for leadership is legendary. Build on a track record of more than 35 years of service to golf, the Toro name has come to represent the finest in total turf solutions for thousands of courses around the world. In fact, 74 of America's top 100 courses* are irrigated with Toro systems.

When it comes to golf course irrigation, the Toro commitment ranges from offering the industry's largest and most diversified selection of quality products to providing unprecedented programs for after-installation service. But the Toro golf package is more than just products and service. It is a carefully woven fabric of key elements that combine to create the "right" irrigation system for each course.

Toro leadership is further exemplified through its strong commitment

to the golf industry in general. Toro is the official turf equipment and irrigation supplier to The First Tee, an organization committed to making golf more accessible and affordable to young people throughout the nation. The Toro Scholars Program supplies scholarships through the Golf Course Superintendents Association of America (GCSAA), and Toro is an Old Tom Morris-level supporter of the GCSAA Foundation.

The Total Renovation Package

Maintaining the quality of established courses is an ever-present challenge for golf course superintendents. While the maturing of a course often brings character and tradition to the overall layout, it also creates a need to replace and update an aging infrastructure.

Toro leads the industry with a comprehensive package of professional services expressly for golf course renovation. System assessment, irrigation design and installation referrals, quality products, and after-sale support and training all are brought together in a centralized program through the Toro distributor. It is this total-package concept that ensures a dimension of cost efficiency and customer convenience unequalled in today's golf industry.

Flexibility is another important element. From irrigation systems specifically designed to meet rigid cost and watering requirements to a menu of after-installation service programs tailored to ensure successful performance, Toro offers the options and expertise to make it the number one renovation expert in the world.

Dependability

Product innovation is the hallmark of The Toro Company. From development of the first plastic golf sprinkler to the first central/satellite control system, Toro has blazed a trail that others have only followed.

Golf Sprinklers

Simply said, Toro products are built to last. Manufactured of durable engineering plastics, Toro golf sprinklers feature the performance and long life required on today's courses. In addition, Toro sprinklers have the industry's lowest maintenance cost and are the easiest to service. Ideal for renovation projects, Toro sprinkler technology is backward compatible so that older sprinklers easily can be updated with simple conversion assemblies.



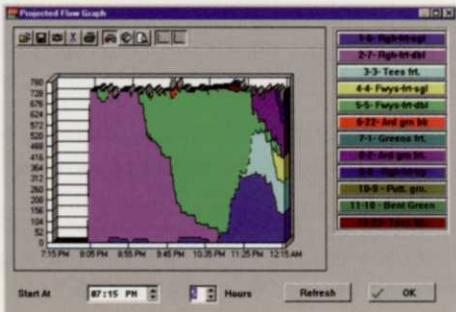
Among Toro's many outstanding models is the new 720 Series, which is particularly well suited to the golf course renovation market. Its advanced design provides superb coverage in challenging areas. With a radius of 20 to 55 feet, the 720 Series has an adjustable gallonage, arc and trajectory that allow the watering pattern to be customized for hard-to-reach spots.

Toro golf sprinklers also offer a full range of features such as adjustable part-circle and full-circle operation, manual control at the sprinkler, factory-set pressure regulation, durable stainless-steel risers, and up to four-inch pop-up heights. Electric or hydraulic valve-in-head models help reduce pressure spikes and damage to hydraulic systems. Check-O-Matic technology, which prevents low-head drainage, also is available. All Toro sprinklers offer color-coded nozzles for easy in-field identification.

Central Control

Built with the superintendent in mind, Toro's central control systems are designed to ensure programming flexibility and optimum watering precision in any golf course application. Used at more than 1,000 sites throughout the country, SitePro offers precise programming capability to save time and money. And, of course, SitePro is backed by Toro's comprehensive NSN, as well as the distributor sales and service group.

The wireless OSMAC® field satellites are also well suited to renovation projects because there is little disruption to the golf course. For renovation projects requiring the ultimate in flexibility, Network LTC Plus satellites can be installed wireless, wireline or hybrid (a combination of wireless and wireline), depending on the specific site conditions. Network LTC Plus also allows up to 64 stations for more precise control.



Toro satellites are ideal for golf course renovations. Existing hydraulic systems and old control boxes can be upgraded with either OSMAC or Network LTC Plus, providing enhanced control and programming flexibility. This in turn means better playing conditions. And isn't that the ultimate purpose of golf course renovation?



WESCO TURF, INC.
Sarasato
800-486-8873



Hector Turf, Inc.
Deerfield Beach
800-432-5512



WESCO TURF SUPPLY, INC.
Lake Mary
800-393-8873



Officers

President Michael Perham, CGCS
Fountains Golf Club
4615 E. Fountains Drive
Lake Worth, FL 33467
(561) 642-2724

Vice President Darren Davis
Olde Florida Golf Club
9393 Vanderbilt Beach Rd.
Naples, FL 34120
(941) 353-4441

Secretary/Treasurer Cary Lewis, CGCS
Renaissance Vinoy Resort
600 Snell Isle Blvd
St. Petersburg, FL 33704
(813) 894-5500

Past President Joe Ondo, CGCS
Winter Pines Golf Club
950 S. Ranger Blvd.
Winter Park, FL 32792
(407) 657-7565

Directors

Central Florida Geoff Coggan, CGCS
The Great Outdoors
(407) 269-5004

Coastal Plains Doug Abbuhl
Seminole GC
(850) 576-7975

Everglades Gary Grigg, CGCS
Royal Poinciana GC
(941) 261-0211

North Florida David Amirault
Deercreek CC
(904) 363-1505

Palm Beach David Court, CGCS
Boca Lago CC
(561) 482-5000

Ridge Roy Wilshire, CGCS
Grasslands GC
(941) 688-3863

Seven Rivers Buddy Keene
Gainesville G&CC
(352) 376-8174

South Florida James Gains
Hollybrook G&TC
(305) 433-1725

Sun Coast Tom Crawford
Misty Creek CC
(941) 922-2141

Treasure Coast Craig Weyandt
The Yacht & Country Club
(561) 283-0199

West Coast Eric Joy
(727) 960-9335

Staff

Association Manager Marie Roberts
1760 NW Pine Lake Dr.
Stuart, FL 34994
Phone: Days (561) 692-9349
(800) 732-6053 (Florida WATS)
(561) 692-9654 (Fax)
fgcsa@tcol.net (Email)



Indian Creek Village,
Florida

**SPRING
1999**

FOREWORDS WHAT'S UP DOC? 4
Director of Communications Joel Jackson subs for President Mike Perham and discusses the many relationships superintendents face in their profession.

SPOTLIGHT BIG SHOW, PRESIDENTS AWARDS, GLO-ING ENDOWMENT 8
The GCSAA Show's visit to Orlando was successful; two Presidents Award winners are profiled; hosting Nike Tour event is win-win-win situation; endowment for the Golf and Landscape Operations program at Lake City Community College keeps growing; Palm Beach Chapter aids severely ill children.

COVER STORY ISLAND IN THE STREAM 34
Indian Creek Country Club's history goes back 71 years. It has kept up with the times without losing the flavor of Florida's first land boom.

HANDS ON SUPERINTENDENTS AND SUPPLIERS 50
Superintendents and suppliers are members of the same team whose mission is to maintain golf courses while protecting the environment.

PROFESSIONAL DEVELOPMENT DESIGN IS TEAM EFFORT 60
Architects and superintendents must work together to build sustainable golf courses.

INDUSTRY NEWS UE/INDUSTRY RELATIONS, PLANTS OF THE YEAR 66
The University of Florida has added four turf faculty positions, one filled by the FTGA's first GC Horn Graduate Scholar; three more under-used plants.

STEWARDSHIP HERE TO STAY 72
The issue of fitting golf into the environment without hurting it is here to stay: a report from the Third Golf and the Environment Conference.

RESEARCH APPEARANCE DOESN'T EQUAL PERFORMANCE 76
Of the new ultradwarfs, those scoring high in appearance don't necessarily perform best.

OFFICIAL BUSINESS FQPA, METHYL BROMIDE 78
Implementation of the Food Quality Protection Act reflects a hasty reaction to a staggering workload; the ban on methyl bromide has been delayed until 2005.

AFTERWORDS BENTGRASS AGAIN, JONES BY JARRELL, JACKSON 80
Old Marsh Club is going to try bentgrass greens year-around; Mark Jarrell covers the career of his good friend, Dan Jones, recent winner of the GCSAA Distinguished Service Award; Joel Jackson discusses superintendents' new-found media attention.

About the use of trade names: The use of trade names in this magazine is solely for the purpose of providing specific information and does not imply endorsement of the products named nor discrimination against similar unnamed products. It is the responsibility of the user to determine that product use is consistent with the directions on the label.

The Florida Green

Official Voice of the Florida Golf Course Superintendents Association

Published four times a year:
On the twenty-fifth of January, April, July and October

Editor Joel Jackson, CGCS

FGCSA Director of Communications
Address Florida Green business to:
6780 Tamarind Circle
Orlando, FL 32819
(407) 248-1971 Florida Green voice/fax
E-mail address: FLGrn@aol.com

Assistant Editor Scott Bell

Bent Pine GC
6001 Clubhouse Dr.
Vero Beach, FL 32967
(561) 567-9422

Publications Chairman Darren Davis

Olde Florida GC
9393 Vanderbilt Beach Rd.
Naples, FL 34120
(941) 353-4441
(941) 353-3717 Fax

Business Manager Paul Crawford

Palm Beach Country Club
P.O. Box 997
Palm Beach, FL 33480
(561) 845-2395 Work
(561) 863-0040 Fax

Editor Emeritus Dan Jones, CGCS

West Palm Beach

COPYRIGHT NOTICE: Copyright 1999, Florida Golf Course Superintendents Association. All rights reserved. May not be reproduced in whole or in part without written permission of the FGCSA. **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.

SUBSCRIPTIONS: \$20 for four issues. Contact the FGCSA office.

ADVERTISING: For rates and information, contact the FGCSA office at 800-732-6053

EDITORIAL: All inquiries should be directed to the editor, Joel Jackson, CGCS. Unsolicited manuscripts and photographs cannot be returned.

Contributors to this issue

Cover Story Principal Photographer: Daniel Zelazek

Cover Story Writer and Supplemental Photographer: Joel Jackson, CGCS

Spotlight: Scott Bell; John Piersol; Randy Bushway; Joel Jackson, CGCS, coordinator

Hands On: Clayton Estes, CGCS; Joe Hubbard, CGCS; Bill Lanthier, CGCS; Gary Morgan; Joel Jackson, CGCS, coordinator

Professional Development: Bob Lohmann

Industry News: Jack Brennan; Dr. John Cisar; Joel Jackson, CGCS

Official Business: Joel Jackson, CGCS

Stewardship: Paul Moses; Joel Jackson, CGCS

Research: Dr. John Cisar; Dr. Bryan Unruh

Afterwords: Glen Klauk; Ron Heller; Mark Jarrell, CGCS; Joel Jackson, CGCS; Geoffrey Cornish; Gary Smither; Gordon Witteveen; Michael Bavier

Proofreader: Scott Bell

Production

The Florida Green is published with the assistance of Janlark Communications, Inc.

Publication Manager Larry Kieffer

www.janlark.com

311 Havendale Blvd. #300 • P.O. Box 336 • Auburndale, FL 33823
941-967-1385 • Fax 941-967-4553 • E-mail: janlarkcom@aol.com

Advertiser Index

Aerification Plus	46	Nucrane Corp	Back Cover
AgrEvo	49	Nutri-Turf Inc	22
Almar Turf	27	Pike Creek Turf Farms	70
Ameraturf	46	Regal Chemical Co.	67
American Cyanamid ...	19,43,51,75	Rhone Poulenc	12
Aquagenix	69	Roots, Inc.	93
Aquatrol	7,81	Safety Storage	18
Century Rain Aid	91	Smithco	61,62
Chemical Containers	56	South Florida GCSA	33
Ducor International	55	South Florida Grassing	42
ER Jahna Industries	89	South Florida Turf Products	54
Floratine Products Group	87	Southern Golf Products	41
Florida GCSA	29	Southern States	47
Florida Silica Sand	71	Spread-Rite	61
Florida Turfgrass Association ...	53	Sullivan Electric	10
Golf Agronomics Supply	28	Terra	4
Green Way	77	Textron Turf Care Products	15
Harrell's	25	The Lake Doctors	27
Haverland Blackrock Paving	61	Tifton Physical Lab	95
Hector Turf	Inside Cover,1	TMI Turf Merchants	Ins. Back Cover
Howard Fertilizer	17	Tom Burrows Turfgrass Service	54
International Seeds	9	Toro Agronomics ...	Inside Cover,1
Kilpatrick Turf	59	Toro Dealers of Florida	Insert
Lake City CC Alumni	23	Tresca Industries	15
Laserturf	54	United Horticultural Supply	79
Lesco	11	Valent USA	83
Milorganite	20	Van Waters & Rogers	85
North Georgia Turf	56	Wesco Turf	Inside Cover,1
Novartis	31	Zeneca	39,57,65

Advertising Information

The Florida Green welcomes advertising inquiries to:

Marie Roberts, Association Manager

1760 NW Pine Lake Drive

Stuart, FL 34994

561-692-9349

800-732-6053 Florida WATS

Weather.



Rain or shine, GoldCote™
delivers the nutrition
your turf needs, when
it needs it.

Terra® Fertilizers with GoldCote™ release nutrients based on soil temperature, not moisture. As turf root activity and nutrient requirements increase with soil temperature, the release of nutrients also increases.

Your turf has exactly what it needs when it needs it. You can count on predictable, controlled release, and superior nutrition with fewer applications.

Or not.



Talk to Terra about the entire line of high-quality Terra fertilizers with GoldCote. There's one that's right for your turf.



Terra Industries Inc.
P.O. Box 6000
Sioux City, Iowa 51102-6000
1-800-288-7353
www.terraindustries.com



Working with you.

Note: February 18, 1999. I am filling in for President Mike Perham, CGCS, as he recuperates from a second surgery in the past six months. It is not related to his recent lung surgery, but it was something he needed to take care of. He is easing back into work this week. Get well and back to full speed real soon, Mike!

If there is an overall theme running through this issue, it is about the many relationships superintendents have throughout the golf industry.

We had a strong working relationship with the GCSAA as many of our fellow FGCSA members were

involved in helping to make GCSAA's 70th International Conference and Show in Orlando such a tremendous success. Once again attendance records were set with attendance exceeding 23,000. See details in the Spotlight Section.

The all-important business relationships of superintendents and vendors will be discussed in the Hands-On section. Being a successful superintendent these days includes practicing good business etiquette and building partnerships with reliable sources.

In the Professional Development section, I asked Bob Lohmann, president of the American Society of

Golf Course Architects to write about the benefits of golf course architects working with superintendents to keep maintenance costs in mind when a course is being designed and built.

Relationships with the golf media took a positive turn with the debut of two new superintendent publications, *Golfdom* and *Superintendent News*. More on that and other public relations information in the Afterwords section.

Allied Associations continue to play a major role in our relationships with the turf industry as the Florida Golf Alliance forges ahead with the Golf Impact Survey supported by the Florida Golf Course Owners Association. Meanwhile over at the Florida Turfgrass Association, my counterpart Don Benham, director of public affairs is working with IFAS faculty and administration to develop a comprehensive fund-raising plan that will at last involve the grass roots golfer.

Relationships with government agencies and environmental protectionist organizations continue to improve as we learn to talk to each other instead of confront each other. While we have a way to go with the Food Quality Protections Act implementation, the potential for cooperation in the mainstream of common sense and common ground continues to look promising.

There will always be extremists who will have their 15 minutes of fame, but the real progress and change belongs to those who are willing to work together in successful relationships.

Successful Relations

WHAT'S UP DOC?



Joel Jackson, CGCS
FGCSA Director
of Communications

Your Choice for Treating Localized Dry Spots

Just Got Clearer.

AQUEDUCT®

**Proven to be the most effective
surfactant to treat LDS and
promote the rapid recovery
of turf under stress**

AQUATROLS

Formulating For Effectiveness

5 North Olney Ave., Cherry Hill, N.J. 08003
1-800-257-7797 or 1-609-751-0309
Fax 1-609-751-3859
www.aquatrols.com

For More Information Call
1.800.257.7797



'Big Show' Keeps Getting Bigger and Better

World of Golf Comes Together in Orlando

The conference slogan, "Where the world of golf comes together," rang true as more than 23,000 attendees gathered in Orlando to partake of the wide variety of educational opportunities afforded at GCSAA's 70th International Conference and Show. With all of golf's major allied associations in attendance, it truly is a melting pot of ideas and information.

It was a heartfelt "thank you" speech that Dan Jones gave as he accepted his 1999 GCSAA Distinguished Service Award at the Opening Session. What a marvelous gentleman and what a tremendous leader he is for the FGCSA.

And who would have guessed that Barbara Bush would turn out to be a stand-up comedienne? Mrs. Bush did a great job as the keynote speaker at the Opening Session and had the audience in stitches a couple of times with her comments and quips.

It was great to see all of the heads of the major golf associations together on the dais of the Golf, Government and Environment General Session. Jim Fingerling of the Club Managers Association gets my vote for making the most cogent statement when he implored the audience to put aside the prejudices of old golf pro, club manager and superintendent stereo-



GCSAA President George Renault, III, CGCS (left) presents Dan Jones, CGCS with a 1999 GCSAA Distinguished Service Award during the Opening Session of the 70th International Conference and Show. GCSAA Photo.



Matt Taylor of Bonita Bay East accepts the 1999 GCSAA Environmental Stewardship Award for Private Clubs during the Golf, Government and Environment General Session in Orlando. GCSAA Photo.



Gary Grigg, CGCS, MG was perhaps the busiest FGCSA member at the conference. Grigg taught two 1 day seminars; gave the invocation at the Opening Ceremony; ran the annual meeting elections and joined with other past presidents to greet 127 new trade show exhibitors. GCSAA Photo



Kevin Downing, CGCS of the Willoughby G.C. in Stuart, FL talked about having written standards for golf course maintenance during the Innovative Superintendents Session early Saturday morning. GCSAA Photo.

types and work together for all of golf. Alas, I found most of the questions to the panel preconceived and formulaic rather than the spontaneity we expected from audience submissions.

Maybe there were too many old stereotype questions submitted?

The Greens & Grassroots Forum for anyone interested yielded an FQPA Action Kit for chapters to

use to keep hammering away at Congress and the EPA over implementation and tolerance reassessments. I hate to be pessimistic, but the panel discussion between Allen

Discover Pyramid Bermudagrass



One of the great treasures on the course!

"Seed - the Gift of Life"®

INTERNATIONAL SEEDS, INC.

P.O. Box 168 • Halsey, Oregon 97348
Tel: (541) 369-2251 • 1-800-445-2251 • Fax (541) 369-2640
intlseed@intlseed.com

International Seeds, Inc.
proudly salutes
"The 1999 Man of the Year"
Jack Harrell, Sr.



Joel Jackson, CGCS, Editor of the Florida Green (second from the right) picked up the Category 5, Best Overall Award in the 1999 GCSAA Newsletter Editors Contest. He joins other chapter winners at the Chapter Editors Forum in Orlando: (left to right) Michael Simpson, CGCS, Tee to Green (Louisiana-Mississippi GCSA); Ken Krausz, CGCS, The Greener Side (GCSA of New Jersey); Fred Opperman, On Course (Midwest Assoc. of GCS); Karen White, Through The Green (Georgia GCSA); and Monroe Miller, CGCS, The Grass Roots (Wisconsin GCSA). GCSAA photo.

said about the Orange County Convention Center is that it is certainly big enough to hold our event... and several others at the same time. I did a lot of walking, but for a desk rider like me these days that wasn't a bad thing. The only real knock I had on the conference education was the background noise I kept hearing: it sounded as if a convention center worker had to be rolling the same rumbling cart outside every room I was in. The only other distraction was the double-ended rooms in the 300 section where people tried to enter behind the speaker after the class or meeting had started.

The show size was overwhelming and didn't

James of RISE and Mike Farrar of EPA didn't reveal

any new insights on how things are going, except

slower. One thing that can be

Sullivan Electric & Pump, Inc. (561) 588-5886

SERVICES

DESIGN, SALES, INSTALLATION AND SERVICE OF ALL TYPES OF GOLF COURSE AND COMMERCIAL IRRIGATION PUMP SYSTEMS.

FULLY STOCKED WAREHOUSE WITH SPECIFIC EQUIPMENT TO MEET YOUR IRRIGATION NEEDS.

FULLY EQUIPED, RADIO DISPATCHED TRUCKS PROVIDE 24 HOUR EMERGENCY SERVICE.

COMPLETE CRANE SERVICE.

INHOUSE PUMP REPAIR FACILITY.

MOTOR REPAIR AND REWIND FACILITY.

PREVENTATIVE MAINTENANCE PROGRAMS.

TOTAL LIGHTNING PROTECTION AND INTERFACE SYSTEMS. UL LISTED INSTALLER.

UNDER WATER WETWELL AND INTAKE CLEANING AND REPAIR.

LICENSED & INSURED ELECTRICAL CONTRACTORS.

PRODUCTS

- FLOWTRONEX PSI
- OTTERBINE AERATORS
- EPS LANDSCAPE PUMP STATIONS
- EPS HYDRAULIC PUMP STATIONS
- WESCO FOUNTAINS
- CLAYTON VALVES & PARTS
- WESSELS HYDROPNEUMATIC TANKS
- SELF CLEANING INTAKE SCREENS
- THOMPSON LIGHTNING PROTECTION EQUIPMENT
- VERTICAL TURBINE PUMPS
- CENTRIFUGAL PUMPS
- REPLACEMENT MOTORS
- CUSTOM CONTROL PANELS, ETL LISTED

"Servicing South Florida"