



The Florida Green

Summer 1989



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The Florida Green

Official Bulletin of the Florida Golf Course Superintendents Association

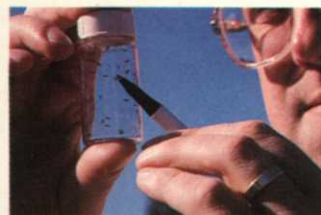
Summer 1989



Joe Lee, Bob Jacobson and Dan Jones discuss their evolving course 22



FTGA officials hope to get to the root of some problems with a rhizatron 56



University of Florida scientists find a tiny wasp that's deadly on roaches 66



Youth turns Florida Green article into successful science fair project 68



About our cover...

The fourth green at Banyan GC early on an April morning. Fourth fairway is to the left, fifth to the right. The story of a unique relationship among an architect, a greens chairman and a superintendent begins on page 22.

NEWS ROUNDUP

Biocontrol for mole crickets gets test 12
 Old Marsh gets US Women's Mid-Am 12
 USGA increases turf research grants 16
 Florida leads nation in course development 18
 Lake City graduates 35 20

COVER STORY

Banyan GC — A work in progress 22

EDUCATION

Green Section Conference draws huge crowd 30
 • Design must consider maintenance cost • Good records can win your day in court • Development enters a new era • Give the ladies a second set of tees • Engineers say it won't work but Pete Dye likes it fine

ASSOCIATION

Poa Annua Classic 46
 Board meeting • Banquet • Granny Horn Memorial Scramble • Complete tournament results

BUSINESS & AGRONOMY

Budgeting need not be a bugaboo 49
 South Florida is ecologically unique 51
 Two grasses for overseeding 56
 No treasure in golden pines 62
 Tiny wasp shows promise against roaches 66

SUPPLY SIDE

It was a 'Purdy' good experiment 68
 Rain Bird co-founder dies 71
 Index to advertisers 73

AFTERWORDS

Letters to the editor 74
 Fairness, humility and dedication 76

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NOTICE: All correspondence concerning business matters, circulation, editorial and advertising should be addressed to the Editor, P.O. Box 5958, Lake Worth, FL 33466. Opinions expressed by writers in by-lined editorials are not necessarily those of this publication. "The Florida Green" is published quarterly Jan., April, July, Oct. Closing date for advertising and copy is 45 days prior to publication. Not copyrighted. Please credit the author and "The Florida Green." All advertising and circulation matters should be addressed to Irene Jones, Assistant to the Editor, at the above address or (407) 793-2497.

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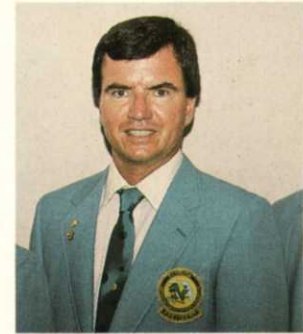
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*This is the year to join your local,
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Three copies of this magazine are sent to nearly every golf course in this state in hopes that owners, presidents, general managers, greens committee chairmen, golf professionals and golf course superintendents will take the time to read our publication. This is my last opportunity to express my thoughts as president of the FGCSA to the readers of *The Florida Green* and I would like to address this message to *all* our readers.

First, I would like to say that it is extremely important that the superintendent at your club be a member of our local, state and national golf course superintendent associations. These associations keep golf course superintendents fully aware of what is happening in our industry. Through publications, monthly meetings, educational seminars, conferences and many additional services, superintendents are able to keep in touch with the rapidly changing business of golf course management. If you want your superintendent to grow and improve along with your golf course, you should be willing to support his efforts by allowing him the time to attend these activities and by paying his expenses. This is one of the best investments you can make in the condition of your golf course.

This year we have a special opportunity to learn and improve ourselves. The GCSAA's International Golf Course Conference and Show will be held this February in Orlando. This will give many of our

superintendents, who in the past have found it difficult to get away during our busy season, a chance to finally attend the world's most important golf conference.

This is also the perfect year for those who are not yet members to finally join the GCSAA. It will actually cost less for first-year members to join and attend the conference than it will just to attend. First-year members can attend the conference for free.

Now is the time to join! If you are a superintendent, and still in doubt, please call a fellow superintendent in your area and ask about the GCSAA. If you don't know anyone in the area, feel free to call me or any of the directors listed in the table of contents. We will be glad to help.

And now, if you are an owner, president, general manager, greens committee chairman or golf professional, please consider attending the conference yourself for at least one day. More importantly, however, insist that your superintendent join our associations and attend the conference. . . and pay his expenses to do so.

Cecil C. Johnston

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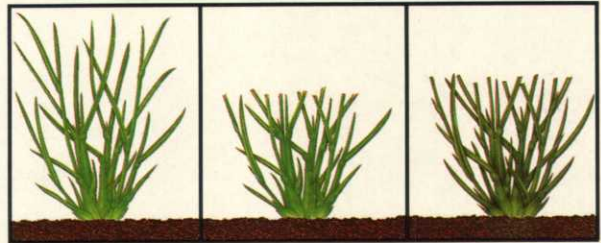
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20 courses to test new bio-control for mole crickets

NAPLES — After four years of testing in Alachua County pastureland by researchers with the University of Florida's Institute of Food and Agricultural Sciences, "the most promising biological control agent for mole crickets we have ever had" is ready for field trials at 20 Florida golf courses.

"Everything looks extremely promising as far as finally having something we can brag about," said Bob Rehberg, chairman of the Florida Turfgrass Association's research awards committee, following an education session during the FGCSA's Poa Annua Classic weekend May 20-22.

What Rehberg and the FTGA are bragging about is an Uruguayan nematode which carries a bacterium "at least four times more virulent on the mole cricket than some of the other materials that have been pulled in from commercial organizations."

The microscopic worm crawls in the mole cricket's mouth, infects it with the lethal bacteria, and then crawls out before the insect dies "within one to several days," Rehberg said.

In IFAS' controlled study, the nematodes have remained in the soil four years after their release and their effect has been detected more than 10 miles from the original release point.

In that study on bahiagrass pastureland which, Rehberg pointed out, is "particu-



KIEFFER/JANLARK

FTGA's Bob Rehberg announces new bio-control for mole crickets at Poa Annua education session.

larly susceptible" to the dreaded root-eating pest, "the mole cricket populations... have decreased by about 95 percent and continue to decline as we continue to monitor.

"Grass and trees have recovered from mole cricket damage and mole crickets are no longer an economic problem in these pastures."

The nematode and its lethal bacterium are completely harmless to "all other biological systems," Rehberg said. "All tests indicate so far that it is very specific."

So now the FTGA, which funded the IFAS research by Dr. Grover Smart with a total of \$45,000 in grants, is going to let 20 members test the nematode on their golf courses.

"We're looking for 20 members who will pay \$8,000 each to participate in a two-year study," he said.

In a follow-up conversation one week after the Naples announcement, Rehberg said several FTGA members already had

expressed interest in the project.

"Undoubtedly we'll have more than 20 willing to participate," he said. "Compared to the alternatives, \$8,000 is practically free."

The problems in testing the nematode under field conditions have been not so much with the organism but with the "delivery system."

The laboratory technique for infecting the mole crickets is difficult, unpleasant and expensive.

Besides, Rehberg said, "IFAS is not equipped, nor is it in the business, to raise large amounts of any biological control agent."

The technique developed by the FTGA involves luring mole crickets to traps filled with nematode-infested sand and then dumping the infected mole crickets on the golf course "where they can go infect other mole crickets before they die," Rehberg said.

"It may take a couple years to get them out there in sufficient numbers to really show you a difference," he said, "but we think it will happen."

Participants in the test will be selected in such a way as to guarantee a variety of soil and climatic conditions. They will attend a seminar in Gainesville.

Old Marsh lands '92 USGA Women's Mid-Amateur

FAR HILLS, N. J. — Dennis Weber became the latest Florida superintendent to learn his work will be placed in the national spotlight when the USGA announced March 22 that the Old Marsh

(Please see OLD MARSH, page 16)

SUMMER SPOTLIGHT

Superintendents who will test the champions

July 27-30 — **Jim Branstrom**, Palm Beach Polo & CC, West Palm Beach. Florida Open.

Aug. 19-20 — **Frank Sbarro**, Marsh Landing and **Kim He-mauer**, Oakbridge at Sawgrass, Ponte Vedra. FSGA Team Championship.

Aug. 22-25 — **Greg Pheneger**, PGA National GC, Palm Beach Gardens. PGA Junior Championship.

Sept. 28-Oct. 1 — **Robert Giehls**, Killearn CC, Tallahassee. PGA Tour Centel Classic.

Sept. 30-Oct. 1 — **Bob Ellis**, Lake Region Y&CC, Winter Haven. FSGA Senior Four-Ball Championship.

Oct. 5-8 — **Steve Schroeder**, Mayacoo Lakes CC, West Palm Beach. FSGA Mid-Amateur Championship.

Oct. 13-16 — **Larry Kamphaus**, Walt Disney World, Lake Buena Vista. Oldsmobile Scramble Finals.

Oct. 18-21 — **Larry Kamphaus**, Walt Disney World, Lake Buena Vista. PGA Tour Disney/Olds Classic.

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1.50	8,440	38.4
2.00	11,250	28.8
2.50	14,060	23.0
3.00	16,875	19.2
3.50	19,690	16.5
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The GA 30 aerator also helps you get on and off the course more quickly. Its 18 hp engine with a six mph transport speed is two-three times faster than other aerators. So why waste time walking when you can ride to work?

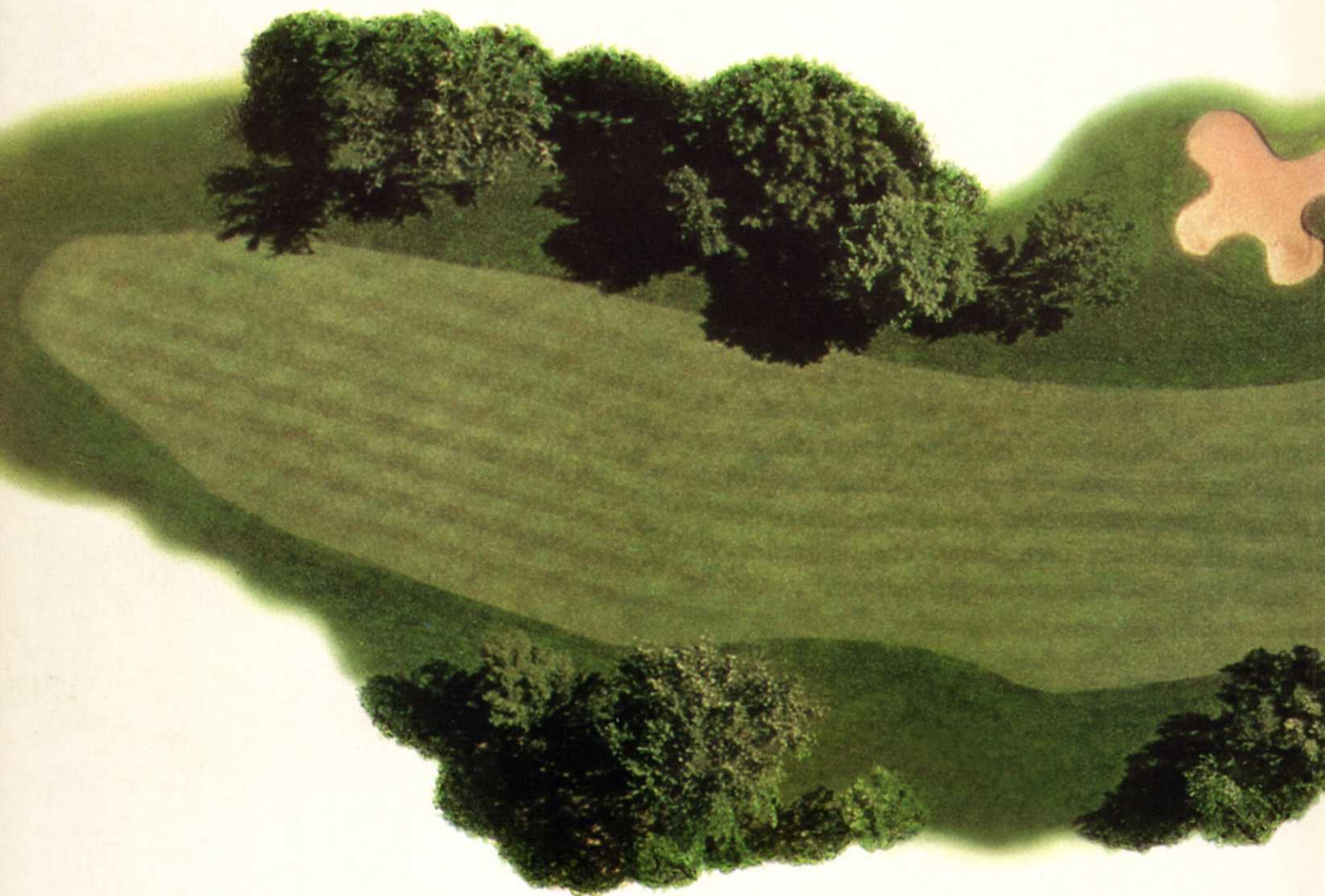
Ryan's crank drive penetrates straight in at a depth of up to 3-3/4 inches. The tine-ram, ground-driven, reversing gear box pulls cores straight out to better protect your turf from damage—no matter what the spacing.

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John's Island Club gives \$6000

Trevor Wright, right, general manager of the John's Island Club in Vero Beach, presented \$6,000 to the Florida Turfgrass Research Foundation. Accepting the check is Bob Yount, FTRF vice president of development. "John's Island Club expects to make this an annual contribution and we encourage other private, semi-private and daily fee courses to make a similar investment in the future of Florida turf," Wright said.

Old Marsh gets Women's Mid-Am; USGA Jr. at Bay Hill delayed

(Continued from page 12)

GC in Palm Beach Gardens will host the 1992 U.S. Women's Mid-Amateur Championship Oct. 3-8.

It will be the first USGA championship at the two-year old Pete Dye course that plays to 4974 yards from the ladies' tees. It measures 6914 from the tips. The 1992 Women's Mid-Am will be the second in Florida: the 1988 event was played at Amelia Island, also designed by Dye.

Jimmy Ellison at Bay Hill Club in Orlando got an extra year to get his course ready for the Junior Amateur. Originally scheduled to host the 1990 event, Bay Hill switched dates with Merced G&CC in Daly City, Calif., and will now challenge the young limberbacks July 23-27, 1991.

Tom Mackanos has until 1992 to get

the Loxahatchee Club in Jupiter ready for the USGA Senior Amateur Oct. 19-24.

USGA to distribute \$660,300 in turfgrass research grants

FAR HILLS, N.J. — The USGA will distribute a record \$660,300 in turfgrass research grants in 1989, an increase of more than \$190,000 over 1988's total.

The USGA turfgrass research program, now in its seventh year, is a cooperative venture with the GCSAA. Including the 1989 grants, the USGA will have provided nearly \$3 million in grants in an attempt to develop new turfgrasses and management techniques that will reduce golf course maintenance costs and water use by 50 percent by 1993.

(Please see DROUGHT, page 18)

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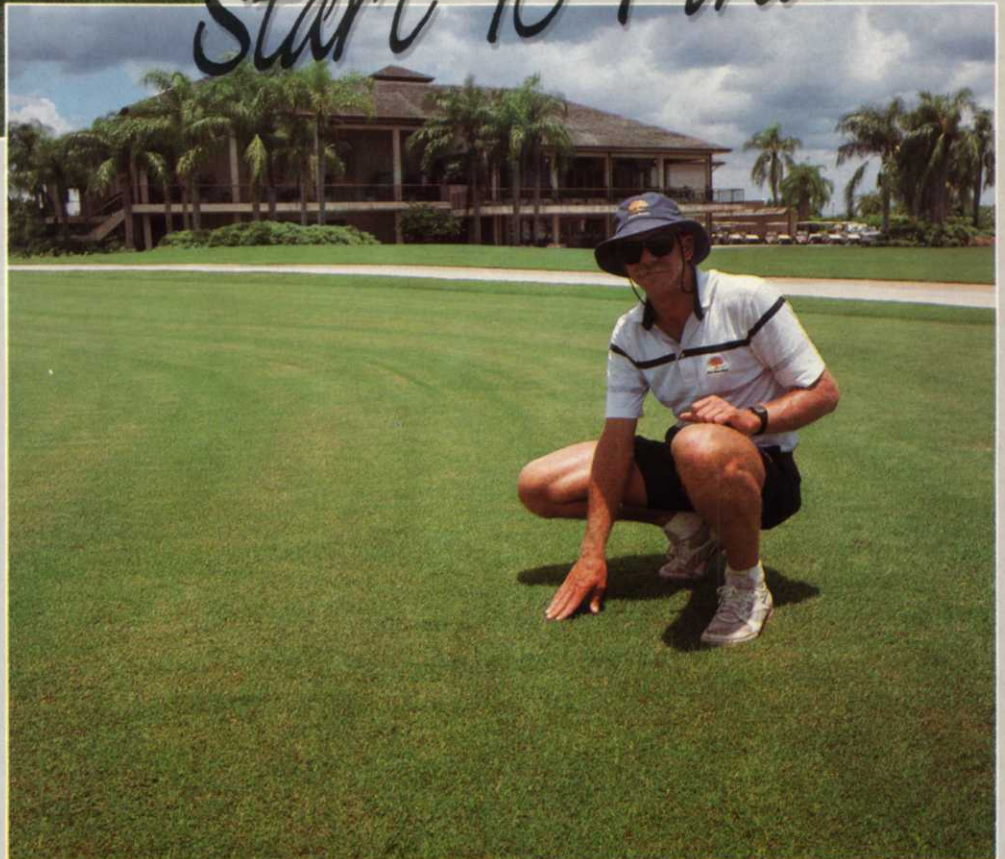
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JB Branstrom, Golf Course Superintendent, Palm Beach Polo Club

Note: Weed free established turf

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Drought-resistant bermudagrass first product of USGA program

(Continued from page 16)

Progress has been made since the project's inception in 1983. One notable contribution has been made by Dr. Arden Baltensperger at New Mexico State University, who has developed a new seeded bermudagrass named Sahara, which has shown excellent resistance to drought. The first improved grass produced by the the USGA research program, Sahara will be commercially marketed for the first time in 1989.

"Our achievements of the last six years are just beginning to show," explained Dr. William H. Bengeyfield, chairman of the USGA Turfgrass Committee. "The program will succeed. We are confident of that."

Copies of the 1988 Turfgrass Research Summary are available from GCSAA headquarters or from the USGA.

Grants will be awarded in 1989 for 19 projects too numerous institutions for studies involving turfgrass breeding, cultural practices and the USGA Turfgrass Information File at Michigan State University.

TGIF is a computer-based bibliographic database with more than 13,000 entries covering published materials on turfgrass research and maintenance.

Innovations are proving to be of great assistance to researchers. With computer access to the database now available, data can be retrieved almost immedi-

ately. Also in development is a turfgrass thesaurus, a supplement to the thousands of keywords already entered and available.

Additional information concerning TGIF is available from the USGA Green Section office in Far Hills, N.J. or from the Michigan State Libraries in East Lansing, Mich.

Florida leads nation in total courses, new developments

JUPITER — Florida led the nation in golf-course development for the most recent two-month reporting period, according to the National Golf Foundation.

In the May/June issue of *Golf Market Today*, the NGF reported that Florida had 38 golf courses in the planning stage, under construction or recently opened. California was second with 18.

Florida also had the most golf course openings in 1988, the NGF said, with 35 out of a total of 211 for the entire nation. Texas was second with 20.

Overall, Florida now leads the nation with 932 golf courses at 745 facilities. California is second with 836.

With 412, Florida has more private courses than any other state and is second to Michigan in daily-fee courses with 432. Michigan has 489.

The Sunshine State ranks sixth in municipal courses with 89. California leads the nation with 166.

Of the 38 projects reported in the last

two months, 22 are listed as private, 11 as daily fee, 2 as municipal and 3 as unknown.

Jacksonville led the way with seven projects, followed by Naples with three.

Unless otherwise indicated, all are 18-hole courses. The complete list:

Recently opened

- Alaqua CC, Longwood
- Great Oaks GC, Marianna (9 holes)
- Hunter's Ridge, Naples
- Sabal Springs, Cape Coral (9 holes)
- St. Johns GC, Elkton (9 holes)
- Vineyards of Naples, Naples
- Willoughby GC, Stuart

Under construction

- Cape Haze Links, Rotonda
- Chi Chi Rodriguez Youth Foundation, Clearwater
- Cobblestone CC, Stuart
- GC of Palm Beach, West Palm Beach
- Indian River Colony Club, Indian Harbour Beach
- Julington Creek, Jacksonville (9 holes)
- Oakbridge CC, Lakeland
- Old Trail at Jonathan's Landing, Jupiter
- PGA Tour Course at Jacksonville
- Plantation Club/Sugarmill Woods, Homosassa
- Polo Club, Boca Raton (9 holes)
- Rotonda G&CC, Rotonda
- Sabal Springs, Cape Coral
- The Cedars, New Port Richey
- The Enclave, Port St. Lucie
- Unnamed, Jacksonville
- Victoria Estates, Port Charlotte
- Wellington GC, Wellington

(Please see 13, page 20)

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13 courses listed in planning stage

(Continued from page 18)

Planning stages

- Big Cypress Lakes, Lakeland (9 holes)
- Birk Forest GC, Wellington
- Foxglove CC, Lantana
- Glen Kernan Jacksonville
- Monterey, Goldenrod
- Oak Tree Sports Club, Hawthorne
- Oakford, Sarasota
- Queens Harbour Y&CC, Jacksonville
- Shamrock G&CC, Naples
- Silver Sands CC, Jacksonville
- Terraverde CC, Miami
- Unnamed, Jacksonville
- Waterford GC, Melbourne

Lake City graduates 35 in GCO plus 14 in first TEST class

LAKE CITY — Six students, including the only woman in the class of 35, graduated from the School of Golf Course Operations at Lake City Community College with highest honors May 5. All were from Florida.

Another six students, including three from out of state, completed the three-year program with high honors while five received their associate of science degrees in golf course operations with honors.

The GCO students at Lake City CC must complete 104 classroom credits in mechanics, agronomy, business administration and academic core subjects plus two summer internships under the supervision of a qualified golf course



LAKE CITY COMMUNITY COLLEGE

TEST Center opens at Lake City Community College

The dream that started 20 years ago took a new shape Sept. 9, when the new Turf Equipment Service Technology Center was dedicated on the campus of Lake City Community College. The building, containing classrooms and laboratories, also houses nearly a half-million dollars worth of turf equipment loaned by various manufacturers. The TEST program awards a terminal certificate and serves as the first year of Lake City's three-year program leading to an associate of science degree in golf course operations.

superintendent. This year's graduating class of 35 out of 45 who began the program three years ago was described as "typical" by a spokesperson for the college.

Palm Beach County supplied the most graduates with six, while four each came from Naples and Sarasota. One graduating senior came from the Republic of Panama and another six came from other states.

In addition to the 35 degrees, the school also issued 14 certificates to the first graduating class of its one-year program in turf equipment service technology. According to Ed Combest, chief instructor of mechanics, most will work at golf courses or become manufacturers' service representatives.

All but one TEST graduate came from

Florida.

The 1989 graduates of Lake City Community College's School of Golf Course Operations:

HIGHEST HONORS (3.75+ GPA) — Craig Boller, Crystal River; Chris Bower, Winter Haven; Lon Chatfield, Sarasota; Sherrie Keblish, Miami; Scott Spara, Sarasota; Greg Tharp, Atlantic Beach.

HIGH HONORS (3.50+ GPA) — Mickey Beechy, Southington, Ohio; Robert Emmons, Naples; Steve Larsen, West Palm Beach; Steve McGinnis, Zephyrhills; Greg Moore, Richmond, Ind.; Douglas White, Tucson, Ariz.

HONORS (3.30+ GPA) — Richard Abbott, Boca Raton; Rick Brain, Sarasota; Scott Campbell, Sarasota; Paul Mollberg, Jupiter; Tim Perez, Northport.

DIPLOMATES — Bryce Abel, St. Petersburg; Gary Gorden, Naples; John Holmes, La Grange, Ga.; Tom Kennedy, Columbus, Ga.; Henry Kerfoot, Falls Church, Va.; Gavin Lapper, Seminole; Andy Lemmel, West Palm Beach; Andre Lenders, Cape Coral; Robert Moffett, Boca Raton; Martin Moore, Fort Myers Beach; Mike Mulcahy,

(Please see LAKE CITY, page 46)



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At Banyan Golf Club, the architect, greens chairman and superintendent have formed an unusually strong working relationship to help their golf course evolve.

How to build a golf course in only 19 years (and counting). . .

BY LARRY KIEFFER

LAKE WORTH — How long does it take to build a golf course?

“We’re at 19 years and counting,” says architect Joe Lee of Banyan GC, a very private club in central Palm Beach County just west of the Florida Turnpike. “One of the wonderful things about a golf course is that you are never finished.”

Writers have been using the cliché about “living, breathing golf courses” for decades but an unusually close relationship among the course’s architect, superintendent and greens chairman has made Banyan a work of art. . . perennially in progress.

“When you lay out a golf course,” says Lee, “you are working from the vertical with aerials and topographical maps to design something that will be built and used from the horizontal. You do your best on the drawing boards, but there’s no way you can really predict what is going to happen as you move across the land and as the land moves through time.

“The final payment is never the end of our obligation or responsibility. At Banyan, because of extraordinary cooperation with the board and management and a

superintendent who understands not only turf but also horticulture, it was the beginning of a privilege to be part of an evolutionary process that has lasted 19 years.”

Lee is quick to point out that he regularly revisits many other clients such as the National Cash Register GC in Dayton, Ohio (which he remodeled for the 1969 PGA Championship) and Royal Montreal. But he doesn’t play those famous venues regularly and he certainly doesn’t maintain a locker at either.

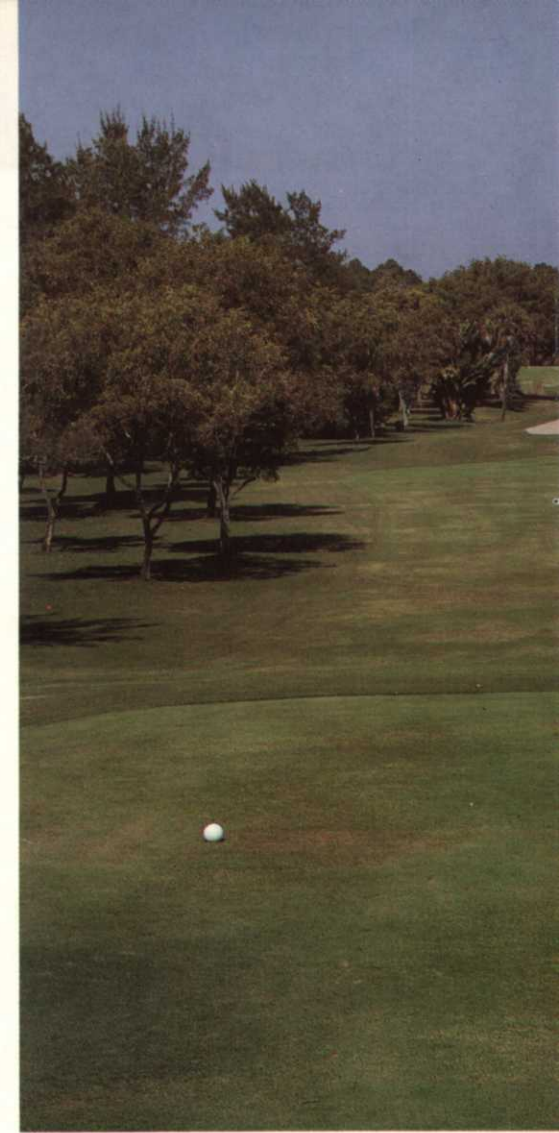
Because he lives nearby, he is able to do both at Banyan.

Lee maintains similarly close relationships with several other pieces of his handiwork in South Florida (*see story, page 28*), but his longtime relationship with Bob Jacobson, Banyan’s greens chairman, has given it a special place in his heart.

“This place is majestic,” he says.

“Joe Lee and I go back a long way,” says Jacobson, a 71-year-old New York stockbroker and one of Banyan’s founding members.

“I met Joe 30 years ago through Dick Wilson (with whom Lee worked for several years) and I was the one who forced Joe on this golf club. I must say, it was one



of the better decisions I ever made.

“I said to Joe, ‘Build a golf course that I can enjoy and one that my father can enjoy.’ And he did.”

“Golf is too important a game to design a course for one type of player,” responds Lee. “You don’t have to be a genius to design a course that can be enjoyed by very high handicappers and still be a challenge to the Tour players — you just have to give it a little thought. Just realize the abilities of all types of golfers and the types of shots you want to bring out and it’s largely automatic. If you listen, the land will tell you what to do.”

At Banyan, the members gave Lee 200 acres of land to work with — half of it heavily forested and the other half barren, pitted moonscape that had produced shell for the highways of South Florida in the 1950’s and ’60s. Construction began in



DANIEL ZEIAZER

1970.

No real estate development was involved. Banyan was to be strictly a golf club for 250 New Yorkers, most of whom wintered on oceanfront property 12 miles to the east and wanted a place to hang their spikes.

"We knew that 200 acres was more than adequate," said Dave Abrahamson, principal founder, who organized and built Banyan as a retirement diversion. He still plays regularly.

"But since this was to be a golf club rather than a country club, the emphasis obviously was going to be on golf. We wanted the best we could get."

"The shell pits were a great challenge," says Lee. "And they provided a great opportunity to give Banyan something rarely seen in South Florida—some elevation changes. I think we dredged up to 25 feet in some places."

"No, we stopped at 23," said Abrahamson. "We ran into budget problems and stopped two feet short."

Banyan may have opened with two feet less elevation change than planned but it also opened with a thousand trees more than planned on the back nine.

They came from a somewhat ironic source: a major highway construction project.

At the same time Banyan was abuilding, Interstate 95 was creeping northward through dense forest several miles to the east and Lee, Jacobson and Abrahamson got permission to take as many trees as they could remove from the path of the advancing backhoes.

"We didn't have the sophisticated equipment they have now," said Lee. "All we had was a flatbed truck and a crane. We didn't have time to root prune and trim

The par-three, 200-yard 13th hole is typical of the back nine at Banyan GC, which architect Joe Lee created from barren shell pits. Teeing off is Bob Jacobson, greens chairman. Waiting their turns are, from left, Sidney Kriser, greens committee member; Joe Lee, architect; and Dave Abrahamson, founding president. More than a thousand trees on the back nine were salvaged from the construction site of I-95, which was creeping up Palm Beach County in the early 1970s, the same time Banyan was built.

them back and let them acclimate. We had to get in there, get them out, plant 'em and go back for more. A lot of them didn't make it."

"Yes, but more than a thousand did," said Abrahamson. "And it's a miracle, too, when you consider that we didn't have any kind of a water system. All we had was a water wagon we hauled around the place twice a week."

Of all those trees, how many were banyans?

"Three, I think," said Abrahamson. "But they didn't have anything to do with the name of the club. When we were organizing, I made up a list of about 30 possible names. Banyan was one of them because it was the name of a street I had to drive by every day and I sort of liked the sound of it."

"I took the list to the wife of one of the members and Banyan was the one she picked. That's how the club got its name."

Busy with his work, Jacobson did not take on the greens committee when Banyan opened. Nonetheless, with modern fertilization and irrigation programs, the vegetation flourished over the next eight

(Please see IT LOOKED, page 24)

Melaleucas provide a lovely backdrop to the 16th green but the exotic trees, which are short-lived, brittle and very susceptible to storm damage, grow up to 8 feet a year with irrigation and fertilization, crowding out the native vegetation. Superintendent Dan Jones has developed a plan to replace the foreign invaders with native stands without ever losing the forested setting.



DANIEL ZELAZEK

It looked pretty, but all was not well

(Continued from page 23)

years, particularly the exotic Brazilian peppers, acacia and melaleuca trees. Banyan was set in a tropical rainforest.

Enter the third member of Banyan's guiding *troika*, superintendent Dan Jones.

Jones, a naturalist, mechanical engineer and certified golf course superintendent, came to Banyan from Aventura (now known as Turnberry Isle) in North Miami Beach. Before that, he had been director of grounds and building maintenance for Rock Resorts' four courses in Puerto Rico — two at Dorado Beach and two at Cerramar Beach, comprising 1700 acres in all — supervising 215 employees.

He took one look and quickly saw that all was not well in paradise.

"The members thought the melaleucas were beautiful, but what they didn't realize was that they were killing all the native trees — the pines, oaks and especially the cypress," says Jones.

With irrigation and fertilizer, melaleucas — sometimes called "punk" trees — can grow up to 8 feet a year, enabling them quickly to overshadow the competing plants. Their aerial assault, combined with frontal and subterranean attacks from Brazilian pepper soon would spell the end for the natives.

And not too long after that, Jones knew, the exotics themselves would die, leaving the whole of Banyan as naked as half of it once had been.

"Since all my previous experience had been working for one owner who just told me to get the job done, I set about doing what I thought needed to be done," relates Jones. Among the things he thought needed to be done was to start tearing out the exotics.

"I almost got fired," he said, chuckling now at his naivete about the workings of private clubs. "I soon learned that I don't work for one owner, I work for 250!"

Jones and Banyan weathered the political storm. . . but the exotics stayed.

The one significant change he was able to effect — with Lee's blessing — was the elimination of overseeded greens in winter.

"That first year, I thought I was going to get killed," Jones said. "The members kept complaining about the color of the greens."

"But how do they putt?" I asked.

"Well, they putt fine, but they look awful," they would say.

"Which would you rather have?" I asked. "Greens that look great but don't putt true until late in the season or greens that always putt well but turn brown for a couple

of days when the weather gets real cold?"

"More often than not they would say they wanted both — greens that look great and putted well all the time — but they got my point," Jones said.

"I am not generally in favor of overseeding," says Lee. "At this latitude, you have a much better putting surface without overseeding."

"I can understand very well that when you are in a selling program — where you are predicated on things being green all the time — that's different from a strictly private course.

"But all golfers should realize that just because the color is green, that does not mean the putt is going to roll as smooth or as fast as they would like."

For the next few years, Jones quietly went about his business, gathering the support and respect of the members as he maintained their course the way they wanted it, melaleucas and all.

Then five years ago, Jacobson agreed to take the greens committee post and the trio was off to the races.

They embarked on a quiet program to remove most of the underbrush from the forested areas and to start the process of replacing the exotic trees with natives. Two

(Please see COUNTRY CLUB, page 26)

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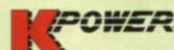
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COVER STORY



DAN JONES/FLORIDA GREEN

'If you can get a chairman who understands playing conditions and can intercede between the superintendent and the board in getting a good program established, that's when you can develop a truly great golf course' Joe Lee

Country club is no place to go to save money, says Lee

(Continued from page 24)

men were hired part-time specifically for that task. A full-time horticulturist joined the staff and soon native plants — annuals and perennials — began blossoming everywhere.

Small fruit trees appeared, enabling members who were so inclined to eat their way around the course. And the limes in the restaurant's key lime pies were really fresh.

"When they asked me to be greens chairman, I said, 'Okay, I'll do it, but please remember that I'm a spender!'" recalls Jacobson. "I won't waste any money," I told them, "but I will spend it. But we'll give you a great golf course in five years."

"We did it in four."

"And I must say that Mr. Abrahamson, who was not entirely in favor of all the things we were doing, has been saying that this place is beginning to look like a park."

Lee picks up the story:

"In general, the worst thing in the world that can happen to a board is to get efficiency experts. The first thing they are going to do is save the club a lot of money.

"Well, the country club is just not a place you go to save money.

"It's no place to waste money — I don't know of any place that is — but it's certainly not where you go to save money. If you want to save money, go to K-mart or something. . . not the country club."

If penny-pinching is the worst sin to visit a golf club, rapid turnover in management is next, according to Lee.

"You begin to have people who shoulder their way into power

to get things to their liking," he says. "It never happened here, but we see it so much.

"If you can get a good chairman who understands playing conditions and can intercede between the superintendent and the board in getting a good program established, that's when you can develop a truly great golf course.

"That's what Bob brings to this club. He brings a different dimension that you don't often see. He has good playing ability and appreciates good conditions.

At age 35, Jacobson gave up competitive golf after 20 straight years as club champion of Hollywood CC in Deal, N.J. in order to concentrate on his new assignment as greens chairman, working with the legendary superintendent, Sherwood Moore.

"One of the jobs that the chairman of the greens committee has to do is defend what the superintendent is doing," says Lee. "That's unique at this club."

"In my opinion," says Jacobson, "the superintendent never does anything wrong. Whatever he does, the superintendent gets all the credit and the chairman takes all the blame. If there's anything wrong, it's my fault.

"As good as he is — and I have worked with two of the very best in the business — a superintendent is going to make mistakes. But if you are afraid you are going to make mistakes, you are never going to accomplish anything.

"Beyond that, the chairman must have some knowledge of what a golf course should look like and he must know what playing conditions are best for the members so he can give the superintendent some direction."

"I depend on Mr. Jacobson 100 percent for telling me what playing conditions the course should offer," says Jones. "He tells me what he wants and it's up to me to deliver it.

"But he doesn't tell me *how* to do it.

"Dan has made me something of a naturalist," says Jacobson, "but not an agronomist. That's his territory. I'll tell him the things that need to be done but it's up to him to set them in priority. 'Always do first things first,' I tell him. 'And you know that better than I do.'"

"That's the key to mutual respect," responds Jones. "And as for me, the most important thing I must do is never, ever put him in an embarrassing position. If I screw up, the first telephone call he

(Please see FIVE-YEAR, page 28)

'The superintendent never does anything wrong. Whatever he does, the superintendent gets all the credit and the chairman takes all the blame.'

Bob Jacobson
Greens Chairman



DAN JONES/FLORIDA GREEN

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It's been a mutual admiration society

Perhaps more so than any other golf course architect, Joe Lee is a hero to the men who maintain the courses he has designed.

That is particularly the case in South Florida, where, it seems, every major highway leads to at least a couple of his layouts. Perhaps the adulation stems from the fact that Lee, who lives in the area, finds his way back to all of them frequently.

A year ago, 22 superintendents from Lee-designed golf courses in South Florida surprised "Mr. Lee" with a testimonial at Pine Tree CC in Boynton Beach.

(An observation: When talking *to* him, generally superintendents call the 68-year-old native of Oviedo "Joe" but when talking *about* him, invariably he's "Mr. Lee.")

On the pretext of a quiet dinner with Mike Bailey, superintendent of The Falls CC in Lantana, and their wives — both named Jenny — Lee walked onto the veranda at Pine Tree and into the view of 22 familiar faces: 21 superintendents and Betty Peter, his office manager and chief assistant.

"Betty is a great designer," Lee said while getting his back slapped, hand shaken and picture taken. "Give her a bloody Mary and she can dogleg a par-three!"

"What we are here to say," said Dan Jones, superintendent of Banyan GC in West Palm Beach and master of ceremonies for the evening, "is very simply that we appreciate you. We appreciate the way you work with us as superintendents. When we have problems, you come and work with us.

"You are there during construction and you're there 15 years



Among those attending the surprise tribute to Joe Lee at Pine Tree CC May 15, 1988, from left, are Dan DuPree, Broken Sound GC; Mark Jarrell, Palm Beach National GC; Dan Nichols, Laguna GC; Richard Lemmel, Royal Palm CC; David Holler, Quail Ridge CC; Tom Burrows, Turtle Creek Club; Dan Jones, Banyan GC; Tim Hiers, John's Island Club; Lee; Mike Bailey, The Falls CC; Dale Witting, Woodfield CC; David Bailey, High Ridge CC; George Ord, Harbor Ridge CC; Ken Anderson, Broken Sound GC; Dick Blake, Bocaire CC; unidentified; Hal Hicks, Pine Tree GC; and Sam Kruger, Boca Greens CC.

later, still looking after your babies, your golf courses, and we appreciate that. It makes our job ten times easier to have someone like you who can work with us on the golf course."

After accepting a straw hat, a pair of Mucker shoes, a plaque and 22 golf shirts (none of them pink or green, per instructions from Jenny Lee), Lee responded to the love-fest in kind:

"You fellows have certainly elevated your profession to a very high degree in what I consider probably the most discriminating area of the country as far as the condition of golf courses goes. I think the standards you have set are a tribute to the professionalism of the superintendents in this latitude. It really has made myself and others in my profession perhaps look much better than they are."

Five-year plan tackles encroaching civilization

(Continued from page 27)

will get is going to come from me.

"I know he is going to get calls from the members and I don't ever want him to have to say to a member, 'Gee, I didn't know about that.'"

Jones and Jacobson recently obligated

themselves to a five-year plan to complete the transition to native vegetation and isolate the club from encroaching civilization.

"Dan and I were beginning to get a little complacent," says Jacobson. "Things were getting a little too set. So that's when I came up with the idea of a five-year plan

and now we are ready to get to work!"

"That's the beauty of designing and maintaining golf courses," said Lee. "They're living things. If you pay attention, the vegetation will direct you. It takes years, but when you see it and understand it, that's what it is all about."

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MIKE BAILEY/FGCSA

'The bottom line is, he has a vested interest.— He has to stay and take care of it after everybody else leaves' -Tim Hiers,

Hire the super before you build

Developers should require architects to design courses that can be maintained properly within pre-set maintenance budgets and, most importantly, they should hire qualified superintendents as early as possible — ideally before any dirt is moved.

"I'm not saying architects and designers can't do their jobs," said Tim Hiers, golf course manager at John's Island Club in Vero Beach and the first of eight speakers during the seven-hour conference. "And I'm not saying that contractors and construction people don't do theirs.

"But the bottom line is, they don't have the same vested interest as the superintendent. He's going to stay there when everybody else is gone."

Among the benefits superintendents bring to the early stages of construction are efficient design of the maintenance complex and irrigation system.

"I'm not saying I think a superintendent is a qualified engineer, architect or draftsman," Hiers said. "I know I wouldn't want the legal liability for putting my name on

the plans. But the superintendent will know better than any engineer or architect whether the complex will work."

The superintendent will know not to put new equipment on a new golf course, Hiers said. "He knows that the sand tears it up."

Hiers also urged superintendents to become familiar with environmental issues and learn to present them in terms that will not arouse emotional reactions.

For instance, rightly or wrongly, "pesticide" is a dirty word to most people who think of themselves as environmentalists. Instead of trying to convince them directly that pesticides are good, Hiers suggested the argument between environmentalists and pesticide applicators be changed to one between "toxoterrorists" and environmental managers.

Among the facts with which he suggested superintendents arm themselves:

- One part per million equals one ounce of salt in 32 tons of potato chips; one part per billion is one second in 32 years; one part per tril-

lion is one flea amongst 360 million elephants

- Golf courses should provide oxygen. When grass is brown, it contains no chlorophyll and therefore is not transpiring.
- Research has shown conclusively that for each gallon a typical golf course withdraws from the aquifer, it puts back eight.
- Golf courses provide natural habitat for most forms of wildlife because they have worms and insects.

Hiers sprinkled his presentation with operating tips for busy superintendents:

- Carry a camera everywhere to document damage, needed work or completion of projects.
- A light coat of baby oil on spray tanks will help prevent corrosion from chemicals.
- Lightning protection on key trees can save money and heartache.

USGA Green Section conference outgrows JDM

PALM BEACH GARDENS — Superintendents should mix chemicals themselves, learn everything they can about environmental regulation, urge their clubs to install a second set of tees for women, and carry cameras whenever they're on the golf course.

Those were some of the highlights of the annual USGA Green Section Regional Conference at JDM Country Club April 20.

According to Roger Harvie, USGA Regional Affairs manager for the Southeast, total attendance of 235 broke down to 118 superintendents, 39 golf professionals, 24 club managers, 21 club officers, 12 USGA officials, and 21 "others." The latter included architects, builders, speakers, association officials and one member of the press.

Eight speakers filled six hours of education sessions with a one-hour lunch break at the midway point.

Main speakers were Tim Hiers, golf course manager, John's Island Club, Vero Beach; Mike Veron, attorney and member of the USGA Green Section Committee; Kevin Downing, golf

and landscape operations manager of Willoughby GC in Stuart, also a member of the USGA Green Section Committee; and Pete and Alice Dye, golf course architects from Delray Beach.

Technical speakers from the University of Florida, Institute of Food and Agricultural Services were Dr. Bert McCarty from Gainesville and Dr. Monica Elliott and Dr. John Cisar from Fort Lauderdale.

Moderators were F. Morgan "Buzz" Taylor, a resident of Hobe Sound and chairman of the USGA Green Section Committee and Pat O'Brien, USGA agronomist for the Southeast.

After the meeting, John Foy, USGA agronomist for Florida, said the conference next year will be held at a different site.

"We've outgrown this one," he said, noting that late arrivals had great difficulty seeing the projection screen. He said he will consider any site in Florida, although he pointed out that attendance dropped sharply several years ago when the conference was moved out of South Florida to Orlando on a one-year experiment.

Records, witnesses are best protection, says attorney

Mark all hazards and mix all chemicals yourself.

That was the advice of Mike Veron, an attorney from Lake Charles, La. and a member of the USGA Green Section Committee.

"Adopt the mindset that the worst that can happen will happen," said the lawyer who represents many major chemical companies.

"A chemical company's first line of defense in any lawsuit regarding alleged chemical damage is that the chemical didn't do the damage. Its second line of defense is that if the chemical did do the damage, it's because the chemical was misused."

Therefore, a superintendent's first line

of offense in any claim against a chemical company must be to document that he used the chemical properly.

Veron then listed four steps every superintendent should take to prove his case:

1. Only the superintendent—or perhaps his assistant, depending on his qualifications — should do the mixing.

2. Keep a log that shows when you mixed, what you did, and who witnessed it. Always have at least one other person witness the mixing.

3. Save the label. Don't discard it with the container. As you know, federal law generally requires that every chemical have a label showing its contents and showing



MIKE BAILEY/FGCSA

Mike Veron represents several chemical companies in Louisiana

its application directions. Save that with your log book.

4. When you apply the chemical, keep a small amount of the chemical so that if necessary, you can have it tested later.

"That way, when some irate greens chairman walks into your office and asks if you have seen what is left of the sixth and seventh greens, you will be able to document that at least, if the damage is blamed on the chemical you sprayed there three days ago, you complied with the label and

you can also show that you have a witness that you complied with the label."

(Please see TESTIMONY, page 32)



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Testimony of experts usually is required as well

(Continued from Page 31)

To collect damages from a manufacturer, however, it's not enough to prove that you were not at fault.

"You have to prove that they were," said Veron.

Usually that proof will require testimony from experts, preferably experts who have nothing at stake — chemist, toxicologist, agronomist. . . or even the superintendent next door — to take soil samples and do whatever is necessary to substantiate the claim of chemical damage.

Veron also addressed the issue of liability for injuries to employees, members, guests and even uninvited intruders.

Sometimes, the attack comes from the least expected quarters.

"There are innumerable horror stories and I am going to tell you one," he said,

relating the story of a New Orleans country club that was ordered to pay \$693,000 to one of its members who accidentally stepped into an unmarked open drain while jogging — even though the member was not seriously injured and should have known not to jog in the area because he knew the hazard existed — he had complained about it several times to club management.

"The moral of the story is that if you are a superintendent and you have any kind of a work condition or work in progress that may constitute a hazard of any kind and if you have to leave it unattended, put barricades around it, put up 'Danger!' signs, do everything possible not only to warn others of the danger but also to prevent them from being exposed to it.

"You should get a rule from the board that prohibits the members' children from getting into the ponds," Veron said.

Ponds, he explained, are like swimming

pools: they fall into the category of "attractive nuisances."

"You know why there are fences around swimming pools. Well, it's a small step from a swimming pool to the ponds on your golf course," he said. "Children like to get in the ponds — a lot of them try to get in and get the golf balls to sell back to the golfers.

"A kid could get in one of those ponds and get bit by a snake or an alligator or get into some horseplay with his buddies and drown."

The principles of law are :

1. Prevent the potential accident if you can.
2. If you can't prevent the accident, warn about the dangerous conditions.

Simple one-word warnings often aren't enough, Veron said. "Make sure you ex-

(Please see SUPERINTENDENTS, page 34)

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Superintendents seen as victims of own success

(From page 32)

plain what the hazardous condition is. If they think you're just being snobbish, they may ignore your warnings.

In conclusion, Veron said the rising professionalism of superintendents has a "down" side.

"You are the victims of your own success," he said. "As you continue to improve turfgrass conditions, you continue to raise the expectations of all of us who enjoy your work. And when you don't meet those expectations, too often you can wind up in court."

Demographics, environmental regs dictate design

Golf course development has entered a new era, says Kevin Downing, golf and landscape operations manager for a South Florida developer and a member of the USGA Green Section Committee.

And any developer who doesn't understand that the rules have changed may end up spending all his capital on the permitting process or — worse — if he does get through permitting with his bankroll intact, "he may not be able to sell his real estate because he builds more golf course

than his market can handle."

Downing, a last-minute substitute speaker for Tom Meeks, USGA director of rules and competitions, repeated the presentation he had made a few days earlier at the annual Tifton Turfgrass Conference in Tifton, Ga.

"If you build a golf course for the three-handicapper, you had better be prepared for a very long sell-out because there aren't that many three handicappers walking around out there," said Downing, who plays to a low handicap himself when on top of his game.

"With the kind of money you're talking about at today's upper-end country club community, people just aren't going to buy into a golf course they can't play."

Downing described the evolution of Willoughby GC in Stuart, a 600-acre development on sensitive wetlands (including some native habitat for the federally protected scrub jay) surrounded by commercial development and a major thoroughfare — U.S. One.

"It used to be vogue to design 'target' golf courses," Downing said. "Now it's mandatory."

His company spent \$1.1 million on the permitting process, drawing up three completely different land-use plans before finally getting permission to turn the first shovelful of dirt.

Because of new requirements for upland buffers and special treatment of littoral zones, the protected scrub jay habitat and the requirement of a local agency that 25



MIKE BAILEY/FGCSA

Kevin Downing substituted at the last minute for a USGA official who could not make the trip from Far Hills, N.J., for the conference.

percent of the native vegetation be left untouched, Downing said the golf course had to be routed before the architect was hired.

"Furthermore, we had done focus groups to make sure we knew what our potential market wanted in the way of a golf course community," he said. "They not only told

(Please see *GOLFERS*, page 36)

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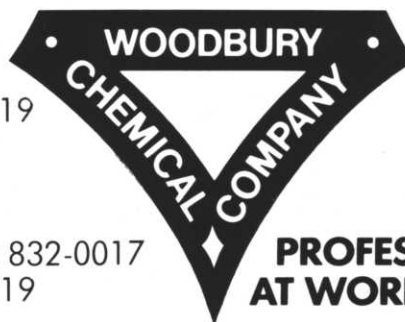
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Golfers won't buy into courses they can't play

(Continued from page 34)

us what kind of roof tile they preferred, they also told us that they wanted to look out on a green golf course and blue water.

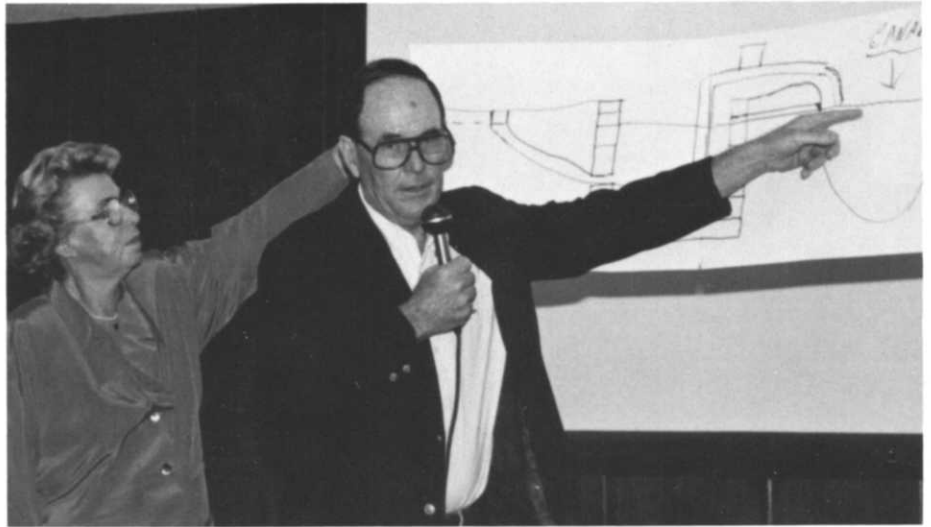
"The vistas they had in mind and the regulatory agencies' ideas of what was beautiful seldom coincided. When 25 percent of your course is scrubland and nobody wants to look at it from the golf course or from his home, it's some trick to hide it."

Downing said the focus groups also helped the developer pin down exactly how much his clients were willing to spend on dues which, in turn, told him what the operating budget of the golf course would be for the next six years.

"Finding an architect who was sensitive to environmental limits and who was willing to design a course with the vistas we felt our buyers would demand at a degree of difficulty we thought they could handle and which could be maintained for six years at \$550,000 to \$750,000 a year was not easy," he said.

The group finally settled on Arthur Hills, who had designed the much acclaimed Bonita Bay project in Naples. "Pete (Dye) refers to him as the King of Naples.

"And Art had to agree to tone down the contours on his greens — which is sort of his signature — and do some other things to make the course playable for our average prospect: an 18-handicapper who hits a 180-yard slice."



MIKE BAILEY/FGCSA

Alice Dye helps hold husband Pete's hand-drawn illustration of the sump pockets he uses to drain low-lying fairways.

The water doesn't know Pete's basins can't work, so it goes ahead and drains

Golf course architect Pete Dye has invented the hydrological equivalent to the bumblebee.

The bumblebee, as all aeronautical engineers know, is aerodynamically unstable and cannot possibly fly. Fortunately, the bumblebee is not an engineer and doesn't know it cannot fly so it goes ahead and does it anyway.

Much the same can be said about the "catch pockets" or "sump basins" Dye uses to drain low-lying courses in south Florida without elevating the fairways.

"I never could get an engineer to agree that it should work," Dye said. "But it does. I guarantee you that Old Marsh (a Dye-designed course in North Palm Beach), where the fairways are only a foot above the water table, the course will be open after a 2- or 3-inch rain that closes down the rest of South Florida."

Old Marsh is built on marshland so sensitive that "we would not have got the permits unless I could guarantee that every drop of water — rainfall or irrigation —

(Please see ALTERNATIVE, page 38)



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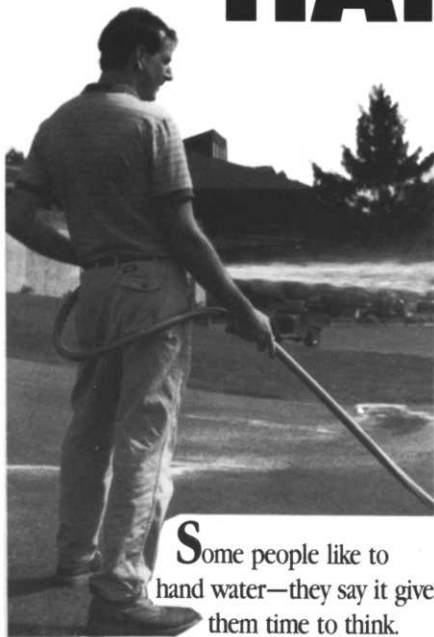
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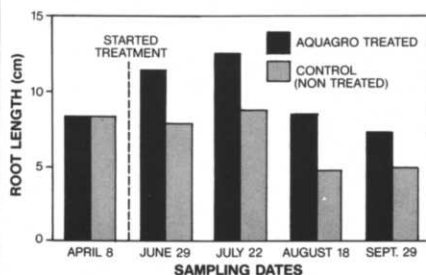
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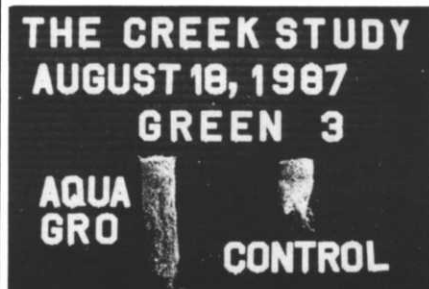
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The photo shown here is part of a research field trial where AQUAGRO reduced water related problems caused by soil layering conditions. AQUAGRO allowed deep root penetration by promoting water movement through the layers.



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Alternative was a four-mile gravity flow through culvert

(Continued from page 36)

that fell anywhere on the golf course — tees, greens, fairways, cart paths, parking lots or wherever — would be kept out of the natural marshes, he said.

Faced with the alternative of trying to make water flow four miles by gravity through 48-inch culvert, Dye devised a series of five concrete-lined basins, or “catch pockets,” into which water is carried from underneath the fairways by drain tiles at a grade of one percent or greater.

Because the basins are lined, water can get into them only through the drain tiles and therefore, said Dye, “since I learned at an early age that water seeks its own level, the water under the fairways can only go down. By drawing water out of the basins with 500 gallon-per-minute sump pumps, Dye says the water level under the fairways can be kept “two or three feet lower than

the water table.”

Dye, a 30-year member of the GCSAA and immediate past president of the American Society of Golf Course Architects, is a graduate of Stetson University in Deland and Rollins College in Winter Park. Among the more prominent courses he has designed since he began his career in 1960 are Harbour Town Links on Hilton Head Island, the TPC at Sawgrass, PGA West and Old Marsh.

His appearance was doubly appropriate since he is a member of both the USGA Green Section and Regional Affairs committees.

Women need choice of tees, says architect Alice Dye

Give women the same opportunity as men, said Alice Dye — the chance to choose a set of tees suited to their games.

“Women have become an economic

factor in modern golf,” said Dye, a golf course architect, two-time USGA senior women’s amateur champion and a member of the USGA women’s handicap procedure committee.

“Women hit balls, take lessons, buy clothes — and they go the whole way: outfits, shoes, socks, hats, visors — take carts, eat lunch and, since they’ve been out playing golf all day and they’re too tired to cook, they bring the whole family to the club to eat dinner.

“And if you want to maximize this economic factor, you’ve got to make golf courses more enjoyable for women.”

The average woman hits the ball about 75 percent as far as the average man, she noted, and the average men’s course from the white tees is 6400 yards. Seventy-five percent of 6400 is 4800 yards.

“The average ladies’ course in this country is 5800 yards,” she said.

“Ladies definitely need a second set of tees with shorter yardage — about 5000 yards.

“On a good day, if everything goes right, the average lady hits the ball about 130 yards. If she gets two ‘career’ shots back-to-back, that means she’s gone 260 yards and still has a third shot from the fairway on nearly every par four.

“It’s tough to make birdie putts from the middle of the fairway.”

The ideal length for par-four holes for women is 240-340 yards for average players and 300-380 yards for the best, she said. Par threes should range from 60 to 150 yards.


“There isn’t much you can do with par fives,” she said. “The legal minimum is 401 yards and, with three of her best shots, the average lady is going to get 370-390.

“But at least you can give her a fighting chance on the par fours.”

But give her that fighting chance on a set of tees with official USGA ratings, she said.

“The biggest disservice you can do to a lady is move the tees up from where the course is rated. They may score a little better but they haven’t become better players. But if you move the tees up for a ladies’ tournament, their handicaps are going to

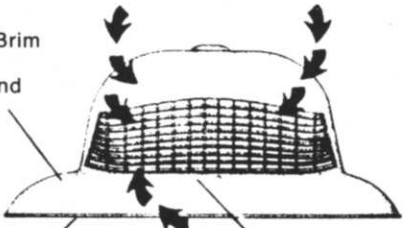
(Please see MOST WOMEN, page 41)



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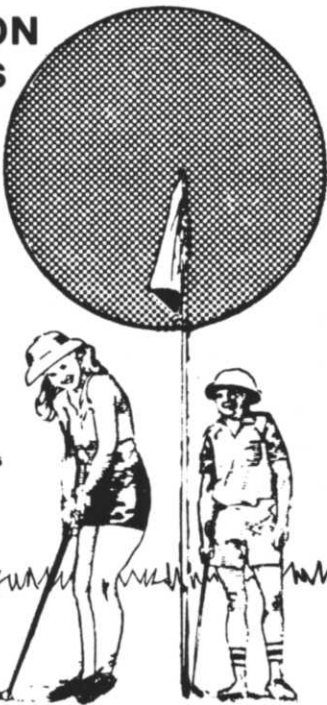
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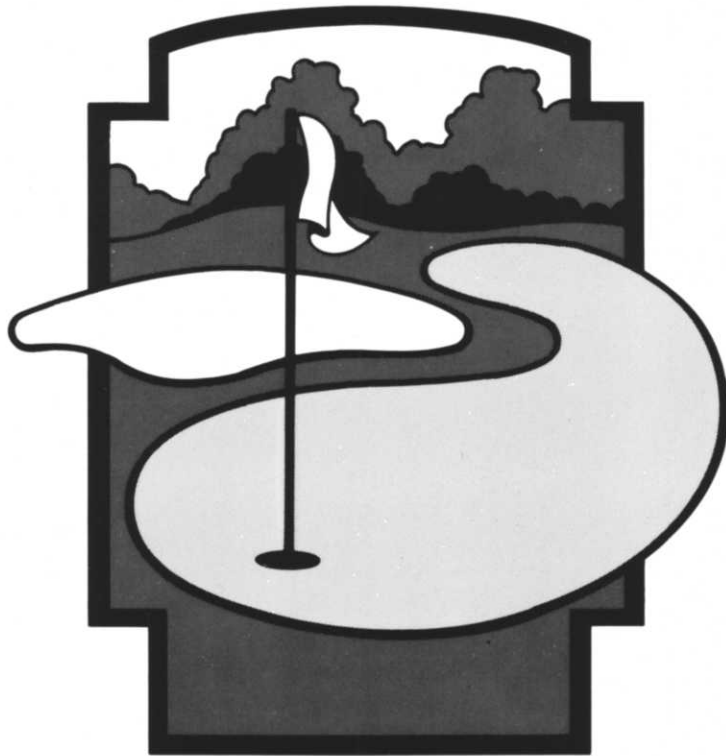
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FTGA show to offer new workshops in farewell to Tampa

ORLANDO — Several new workshop topics will highlight the 1989 Florida Turfgrass Conference and Show at Tampa's Curtis Hixson Convention Center Oct. 8-11. This year's workshop topics :

- Weed identification and control
- Aquatic Weed Control
- Aerification
- Effluent
- Landscape and sports field management and practices
- Fungicides for disease control
- Irrigation, mowing and renovation
- Troubleshooting turf equipment
- Labor relations and personnel management
- Personal financing
- Disease, nematode and insect management in the landscape
- Plant selection and maintenance.

Seminar categories will be golf turf, basics of turf management, principles of turf management and commercial turf.

FTGA officials look for 2,000 to attend the last conference in Tampa. It moves to Orlando in 1990 and then to Jacksonville for several years.

Pioneer turf researcher Tom Mascaro will be the keynote speaker. For more information, contact the FTGA, 302 S. Graham Ave., Orlando, FL 32803; phone 407-898-6721.

Ford Lauderdale's Fairchild Garden to host first international conference on palm horticulture

FORT LAUDERDALE — The First International Symposium on palm horticulture will be Oct. 5-6 in the Corbin Building at the Fairchild Tropical Garden, reputed to have one of the finest collections of mature palm species in the United States.

According to the University of Florida's Institute of Food and Agricultural Sciences, co-sponsor, the symposium will present "the latest information on the cultivation of ornamental palms, with reports by industry and university leaders in mineral nutrition research of palms, pests and diseases, field production, seed germination, seed

plantations, interiorscape use, landscape use and much more."

Registration fee of \$25 (\$15 for members of Fairchild Tropical Garden or the International Palm Society) is payable no later than Sept. 1. Checks should be made payable to the University of Florida Foundation. Admission will be \$10 higher at the door.

For more information, contact Dr. Alan W. Meerow at 305-475-8990 or write to Palm Symposium, University of Florida, Fort Lauderdale REC, 3205 College Ave., Fort Lauderdale, FL 33314.

Most women won't try to carry an iron more than 75 yards

(Continued from page 38)

come down because, for the record, they have scored better against the 'official' course.

"Unless, of course, you compound the problem by setting the pins on the front edge of the greens. Remember, most of them are coming in there with woods!

"In fact, most women won't even try an iron unless she has a carry of 75 yards or less, Dye said.

"Five iron or nine iron, it doesn't really make too much difference," said Dye, whose 223 in the 1979 Senior Women's

Amateur still stands as the record. "I would hate to say this in front of a group of club manufacturers, but women tend to hit all their woods the same distance and all their irons the same distance."

Throughout her presentation, Dye reminded her audience that she was advocating the construction of a second set of tees for women players, not moving the current set forward.

"Just as the men have a choice of three, and sometimes four, sets of tees," she said, "the women should have some realistic choices, too."

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FGCSA board votes to fund technician at Fort Lauderdale

NAPLES — A Florida superintendent has become the second woman in the nation to become certified, the University of Florida's Research and Education Center at Fort Lauderdale will get a turf technician and the FGCSA will oppose the establishment of a second community college program to train assistant superintendents.

Those were the items of general interest to come out of a five-hour FGCSA board meeting May 21 at which President Cecil Johnston announced that the herbicide Hoelon most likely will be labeled for special use in Florida.

Kim Hemauer, superintendent of the Oak Bridge CC in Ponte Vedra Beach, earned



LARRY KAEFFER/JANLARK

Dennis Lyon, president of the Golf Course Superintendents Association of America, is flanked by FGCSA President Cecil Johnston, right, and Vice President Joel Jackson. Lyon said that, according to preliminary surveys, the international convention in Orlando next February will set an attendance record.

her certification early in April. Had the paperwork been completed a few days earlier, she would have beaten Terri Heaphy of Norfolk, Va., who became the nation's first female certified golf course superintendent March 29.

The FGCSA board voted to pay half of a

\$60,000 proposal by the UF's Institute of Food and Agricultural Sciences to finance a turf technician for two years at the Fort Lauderdale Center if the Florida Turfgrass Association will fund the other half from the Florida Turfgrass Research Foundation.

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One of the technician's primary jobs will be to maintain playing conditions on a new 20,000-square-foot putting green to be built for research at the center with volunteer labor and donated materials.

The FTGA should have no trouble coming up with its half of the money, said Ray Hansen, FGCSA secretary-treasurer, since the FTGA's research foundation already is holding \$13,000 donated by the South Florida GCSA and earmarked specifically for support of the new green.

"And we've raised another \$14,000 this year that will be donated to the FTGA and earmarked for the same thing," said Hansen. "That means all you have to come up with is \$3,000," he said to John Luper, FTGA president.

"I'm sure the (FTGA) board won't have any problem coming up with the \$3,000 (out of the general fund) if it is sure that is



John Luper, left, president of the FTGA, discussed financing a turf technician at the Fort Lauderdale Research and Education Center. Listening is John Foy, USGA agronomist for Florida.

what the Florida superintendents want," Luper said.

A poll of the external vice presidents — Gulf Coast and Suncoast chapters were not represented — indicated unanimous support.

Action on the community college issue came in response to preliminary inquiries

by Palm Beach Community College and other institutions interested in starting programs modeled after the highly successful one at Lake City.

"It's very lucrative for the colleges because it is agri-business and they can get matching federal funds," said Kevin Downing, former FGCSA president and current chairman of the research committee.

"This is very premature," said one board member. "Lake City can graduate 50 assistant superintendents a year. Any more than that would flood the market."

"What is needed," said Downing, "is a program that would give credits that can be transferred to a four-year program at the University of Florida."

He also cited the need for short-term certificate programs for irrigation technicians, equipment operators, pesticide applicators and other skilled workers.

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THE FLORIDA GREEN / SUMMER 1989

Lake City sends out 103 interns worldwide

LAKE CITY — A total of 123 students at Lake City Community College's schools of Golf Course Operations, Landscape Technology and Turf Equipment Service Technology are getting on-the-job training at 103 locations this summer, including three in foreign countries and 14 others out of Florida.

Golf Course Operations students must complete two summer internships in order to qualify for associate of science degrees, while landscape and TEST students take only one.

Participating companies:

NORTH & WEST FLORIDA — Turkey Creek G&CC, Alachua; Specialty Products & Services, Lake City; Gainesville G&CC, Gainesville; Killlearn CC, Tallahassee; Curry Landscaping Nursery, Williston; Tallahassee Nurseries; Sandestin Beach Resort, Destin; Greenery Scenery, Tallahassee; West End GC, Gainesville.

JACKSONVILLE WEST — Jacksonville Public GC; North Florida Landscape; Duval Landscape; Magnolia Point G&CC, Green Cove Springs; Willow Lakes; Zaun Equipment Co.; Pineview G&CC, Macclenny.

JACKSONVILLE EAST — Poyer Horticultural Services; Deerwood CC, Hidden Hills CC, Ponte Vedra Inn & Club; Tresca Industries; Selva Marina CC, Atlantic Beach; Marsh Creek CC, St. Augustine; Queens Harbour; Tigerhole Landscape Co.

TAMPA BAY - SARASOTA — Mainlands GC, Pinellas Park; Clearwater CC, Clearwater; Debra Equipment Co., Tampa; TPC of Sarasota; Sun City Center; Avila G&CC, Lutz; Bradenton CC, Bradenton; Walden Lakes Polo & CC, Plant City; Diamond Hill G&CC, Valrico; Feather Sound CC, Clearwater; Saddlebrook G&T Resort, Wesley Chapel.

ORLANDO — Bay Hill Club; Heathrow CC, Heathrow; Foliage Design System; Hunters Creek; Tresca Industries; Walt Disney World, Lake Buena Vista; Oylar Brothers Co.; The CC of Orlando; Isleworth CC, Windermere.

SOUTHWEST FLORIDA — Bonita Bay Club, Bonita Springs; Wildcat Run, Estero; Wyndemere CC, Naples; Kelly Greens G&CC, Fort Myers; Fiddlesticks CC, Fort Myers; Eagle Creek CC, Naples; Landmark Growers, Punta Gorda; Landscape Plus, Arcadia; Pelican Bay West, Bonita Springs; Wildcat Run, Estero; Vines CC, Fort Myers.

NORTH CENTRAL FLORIDA — Sugar Mill CC, New Smyrna Beach; Black Diamond Ranch, Lecanto; Patrick AFB GC; Pelican Bay G&CC, Daytona Beach; Marion Oaks CC, Ocala; LaCita CC, Titusville; Palm Coast.

EAST FLORIDA — John's Island West, Wabasso; Rood Landscape, Tequesta; Orchid Island, Vero Beach; Town & Country Landscape, Melbourne; Sandridge GC, Vero Beach; Sailfish Pointe GC, Stuart; Jenkins Landscape, Hobe Sound; Mariner Sands CC, Stuart.

SOUTH FLORIDA — Hector, Inc., Deerfield Beach;

Boca Woods CC, Boca Raton; Boca Lago CC, Boca Raton; Coral Oaks GC, Cape Coral; Eagle Trace, Coral Springs; St. Andrews CC, Boca Raton; Tropical Plant Rentals, Lake Worth; Pine Island Ridge CC, Fort Lauderdale; Atlantis GC, Atlantis; Boynton Landscape, West Palm Beach.

GEORGIA-TENNESSEE — Royal Oaks GC, Cartersville, Ga.; Atlanta CC, Atlanta; Chattanooga G&CC, Chattanooga, Tenn.; The Honors Course, Ooltewah, Tenn.; CC of Columbus, Columbus, Ga.; Calloway Gardens, Pine Mountain, Ga.; Fox Creek GC, Smyrna, Ga.; Athens CC, Athens, Ga.; Anselv GC, Atlanta; Turf Care Products, Atlanta.

ATLANTIC COAST — Southbridge GC, Savannah, Ga.; Landscape Design Dept. of Jekyll Island, Ga.;

Summer Beach Resort & CC, Fernandina Beach, Fla.; Amelia Island Plantation, Fla.; Long Cove Club, Hilton Head, S.C.; Kiawah Island, Charleston, S.C.; Augusta National, Augusta, Ga.; White Oak Plantation, Yulee, Fla.

OUT OF REGION — Boyd Nurseries, Newport News, Va.; Daly Landscape Design, Kenner, La.; Finnish Sports Institute, Vierumaki, Finland; Department of Agriculture, Fisheries and Parks, Bermuda; Blue Mountain at Wolf Laurel, Mars Hill, N.C.; University of Southern Mississippi, Hattiesburg; Harbor Point, Everett, Wash.; Birdwood GC, Charlottesville, Va.; Blackwolf Run GC, Kohler, Wisc.; Taylor Made Landscaping, Farmingdale, N.J.; Busch Properties, Williamsburg, Va.; Hazeltine National GC.

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Palm Beach, Buckner win Poa Annua titles; scramble nets \$4,300

NAPLES — Palm Beach won the team title, Marlon Buckner and Dick Harrell took the individual trophies and Glen Klauk and Mark Henderson won the scramble but the real winner of the Eighth Annual Poa Annua Classic May 20-22 will be a graduate student in turf research at the University of Florida.

Nearly \$4,300 was raised by 116 players for the Dr. G.C. Horn Endowment Fund at the second annual Granny Horn Memorial Scramble, which kicked off activities of the three-day weekend sponsored by the Everglades Chapter at the Naples Beach Club and Hotel.

Horn, mentor of a generation of University of Florida turf students, was killed in an automobile accident in December, 1987. Proceeds from the endowment in his honor help finance graduate studies at the university.

Sandwiched in between the two tournaments was a five-hour seminar on architecture by Brian Silva and, for FGCSA board members, a four-hour-plus meeting. The hundred-or-so others not involved in either of Sunday's official activities had the day for sand, surf and sightseeing before the annual buffet banquet.

GRANNY HORN MEMORIAL SCRAMBLE

(May 20, 1989, Two-man teams net, using 35 percent of lowest player's handicap)

1. Glen Klauk-Mark Henderson, 60.6; 2. Jon Hayo-

Lake City graduates 35

(Continued from page 20)

Orlando; Daron Murrell, Jacksonville; Bobby Perez, Naples; Roberto Rowley, Republic of Panama; James Sprinkle, Lake Worth; Ronald Turner, Gadsden, Ala.; Matt Willacker, Naples; Ronald Williams, Gainesville.

TEST CERTIFICATES — Darby Bailey, Lake Park; Johnny Collins, East Point; Charles Dufrene, East Point; Ray Hohenstein, White Springs; Owen Kane, Tallahassee; Steve McNeill, Lake City; Chet Marlowe, Daytona Beach; Mark Majel, Lake City; Paul Merritt, Wellborn; Robert Paisley, Franklinton, La.; Steve Plummer, Newberry; Chris Rhoden, Macclenny; Linda Smith, Fort Myers.



LARRY KEFFER/JANLARK



LARRY KEFFER/JANLARK

GCSAA President Dennis Lyon, far right, watched as the team from Palm Beach GCSA accepted its trophy. From left are Dick Blake, Bocaire CC; Glen Klauk, Delray Dunes G&CC; Peter Brooks, Everglades Club; Walt McMahon, The President CC.

Norm Magica. 61.05; 3. John Foy-David Oliver, 62.6; 4. Gary Hayde-George Palmer; 5. David Moote-Bill Wilson, 63.45; 6. Ron Garl-Max Brown, 63.55.

7. Rick Walker-Sid Solomon, 63.9; 7. Dick Bessire, Cary Lewis, 63.9 ; 7. Scott Hamm-John VanVranken, 63.9; 10. Gordon Lewis-Fuhr, 64.2; 11. Jerry Redden-Paul Goff, 64.2; 12. Tom Benefield-Greg Plottner, 64.8.

13. Ondo-Blanford 64.95; 14. Zakany-Jacoby 65.55; 15. Hopkins-Rogers 65.60; 17. McCoy-Ellis 65.8; 18. Barrett-See 65.95; 19. Cheesman-Broome 66.1; 20. Witt-Atwood 66.7; 21. Harrell-Hinn 67.25; 22. Smith-Lottes 67.3; 23. Shevlin-Glase, Duffy-Leary, Millhollen-Lemmel, Powell-Zakany 67.8.

27. Ayers-Miles 67.95; 28. Bittner-Raley, Spainhour-Cozelmann, Sartain-Miller, Fatica-Rejko 68.15; 32. Holmes-Reano 68.6; 33. Jarrell-Majewski 68.8; 34. Fischer-Seigfried 69.3.

POA ANNUA CLASSIC

(May 22, 1989, Individual gross and net) (Prize Winners)

TEAM CHAMPIONSHIP — 1. Palm Beach (Dick Blake, Walt McMahon, Peter Brooks, Glenn Klauk) 276; 2. Everglades (Ron Richards, Bob Shevlin, Dan Surman, John Van Vranken) 277; 3. South Florida (Gary Fischer, Bob Harper, Joe Pantaleo, Ed Ramey) 282; 4. (tie) Central (Joel Jackson, Joe Ondo, Sid Salomon, Rick Walker) and Ridge (Marlon Buckner, Mark Hopkins, Al Puckett, Bob Ellis) 283. 6. Treasure Coast (Scott Bell, Kevin Downing, David Oliver, Mike Perham) 288; 7. Suncoast (Ed Fatica, Mike Miles, Gary Smither, Tuck Tate) 295.

SUPERINTENDENTS (GROSS): 1. Marlon Buckner 71; 2. Mark Hopkins 71; 3. Fred Klauk 72; 4. Dave Oliver 73. **NET:** Walt McMahon 65; 2. Dan Surman 67; 3. Dick Blake 68; 4. Ed Ramey 69.

SUPPLIER/SPONSORS (GROSS): 1. Dick Harrell

69; 2. Bernie Smith 70; 3. Tom Holmes 73; 4. Dick Bessire 74. **NET:** 1. Dave Barnes 65; 2. Brad Reano 65; 3. Bill Lloyd 66; 4. Bill Gamble 67.

HIGH SCORES: Keith Cantwell (Superintendents) and Joe Churchill (Sponsor/Suppliers)

(Individual Scores)

CENTRAL FLORIDA

Joe Ondo 73-70
Sid Salomon 77-71
Rick Walker 77-71
Joel Jackson 89-71
Buddy Blanford 77-74
Dennis Parker 83-75

EVERGLADES

Dan Surman 91-67
Ron Richards 77-70
John Van Vranken 76-71
Paul Goff 79-71
Hank Maus 99-71
Mark Black 84-72
Roy Bates 88-72
Bob Sanderson 83-73
Lou Conzelman 84-73
Bill Pery 93-73
Kevin Scott 80-74
Bob Shevlin 85-74
Jim Witt 92-74
Mike Mongoven 98-74
Mark Talmadge 84-74
Dick Naccarato 85-75
Pat Raley 86-75
Steve Ciardullo 90-75
Dave Hale 94-76
Bill Brooks 94-76
Jack Faulk 83-77
Mark Atwood 95-77
Dick McCoy 100-77
Dave Moote 94-78
Wayne Lippold 102-78
B Carmouche 104-87

Keith Cantwell 120-90
Bob Gruber 103-91
Dick Mohr NC
Bob Bittner NS
Clint Smallridge NS
Bob Volpe NS

NORTH FLORIDA

Fred Klauk 72-69
Eddie Snipes 104-97
Tom Cowan NC

PALM BEACH

Walt McMahon 84-65
Dick Blake 104-68
Peter Brooks 78-71
Mark Henderson .. 76-72
Glen Klauk 78-72
Scott Zakany 79-72
Jeff Klonz 86-73
Dave Court 81-76
Pat Kerney 89-76
Scott Foster 105-77
Bill Whitaker 80-79
Dick Lemmel 94-82
Paul Crawford 105-82

RIDGE

Marlon Buckner ... 71-67
Mark Hopkins 71-67
Al Puckett 90-72
Bob Ellis 84-77
Bobby Jacoby 83-81
Chuck Rodgers .. 104-84

ASSOCIATION NEWS

SOUTH FLORIDA

Ed Ramey 79-69
 Joe Pantaleo 74-70
 Bob Harper 76-71
 Gary Fischer 74-72
 Alan Weitzel 84-72
 Dave Lottes 98-86
 Paul Bondeson NC

SUNCOAST

Mike Miles 75-72
 Gary Smither 75-72
 Ed Fatica 84-75
 Tuck Tate 93-76
 Fred Brown 93-93
 Doug Powell NC

TREASURE COAST

David Oliver 73-69
 Scott Bell 91-71
 Kevin Downing 80-74
 Mike Perham 92-74
 Tim Cann 86-76
 Rick Wise 106-88

WEST COAST

Tom Benefield 85-71
 Greg Plottner 89-75
 Cecil Johnston 102-76
 Frank Cook NC

SUPPLIERS

Dave Barnes 82-65
 Bill Lloyd 77-66
 Bernie Smith 70-68



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1989 Poa Champion
 Marlon Buckner

Dick Bessire 74-69
 Tom Holmes 73-70
 John Foy 82-70
 Nat Hubbard 90-70
 Roger Hruby 88-71
 Bill Fowler 75-72
 Gary Hayde 87-72
 George Palmer 84-73
 Glenn Zakany 85-73
 Bill Silson 85-74
 Ted Owen 99-74
 Jerry Redden 90-76
 Taylor Eli 104-76

L. Stratton 102-84
 John Asp NC
 Obie Lawson NC
 Joe Lockhart NC
 Ed Roman NC

SPONSORS

Dick Harrell 69-64
 Brad Reano 78-65
 Bill Gamble 88-67
 Mark Siegfried 92-68
 Adam Lippold 81-69
 Ian McInnis 94-69
 Gordon Lewis 79-72
 Mike Massey 83-72
 Jim Parker 79-73
 Greg Wright 83-73
 Daryl Rejko 85-73
 Rodney Davis 84-74
 Chuck Garrett 86-74
 Keith Longshore 85-75
 Max Brown 86-75
 Charlie Campbell 94-76
 Joe Conoly 94-76
 Butch Gill 88-77
 Joe Johnson 100-77
 Don Delaney 88-78
 Bill Stonestreet 96-78
 Bob Toski 96-78
 Odell Spainhour 94-79
 Mike Bonetti 99-81
 Joe Kempeneer 107-82
 Greg Pagano 104-83

Spots going fast for Crowfoot Open at Grand Cypress Resort Aug. 6-7

ORLANDO —All 144 spots in the annual Crowfoot Open will be gone shortly after *The Florida Green* arrives in the mail, according to Larry Kamphaus, superintendent at nearby Walt Disney World. "Some people are going to wait too long and get left out," he said. "It happens every year."

Entry fee of \$65 includes a banquet Aug. 6 and the tournament on the New Course, which begins with a 9 a.m. shotgun Aug. 7.

Entry blanks were distributed to FGCSA external vice presidents at the Poa Annuu Classic in Naples May 21.

The Grand Cypress Hyatt is extending a special room rate of \$85 per night. The education program scheduled Sunday morning, Aug. 6, had not been finalized at press time.

Dick Campbell 104-84
 Adrienne Jahna 102-87
 Dennis Niemayer 116-90

Joe Churchill 124-100
 John Barrett NC
 Steve Demillio NC

Dana Hager NC
 Sonny Smith NC
 Steve Tubbs NC

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BUDGETS...

Planning, preparation and tact are the keys



BY MARK A. TODD

What exactly is a budget?

A budget can be defined as a working plan showing the amount of funds needed to maintain the normal operation of an organization for a given period of time.

Budgets may be prepared on a quarterly, biannual or annual basis. From here on, I will be referring to an annual budget designed to be used by the golf course superintendent.

In order for a budget to be successful, it must be carefully planned. Not only is it

important for a superintendent to formulate his budget accurately, he also must be able to sell it to his superiors.

The failing of a budget is most often due to improper preparation.

You can't begin planning a budget by blindly guessing what your needs will be for the upcoming year. You must have facts to go on. This requires careful research and the use of as many resources as you can get your hands on. It's also a good idea to start planning your budget as early as possible. This will give you plenty of time to gather all the information you need so that you will be prepared before the

budget deadline.

When first preparing a budget, a superintendent's primary objective should be to outline what he needs for the upcoming year. This is usually evident to the superintendent who has been at the same golf course for several years. For the superintendent who is creating a budget for the first time, this can be a real challenge. In either case, there are always some available resources to use.

Other things to consider are long-range projects including capital improvements for the next three to five years. Taking this
(Please see COMMITTEE, page 50)

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Committee likely to approve a budget it helped write

(Continued from page 49)

into consideration may save you unnecessary costs in the meantime.

Take inventories. This tells you what you already have. Last year's budget may have purchased items which will not be used up by the end of the fiscal year.

Make sure you find out what your superiors and membership expect to be covered in the budget. Be aware of any special

events, projects or purchases which might be expected to come out of your budget.

After closely evaluating all areas mentioned above, you should have a fairly accurate account of what your budget needs will be for the upcoming year. It is also advisable to consider a contingency factor for each category which is applicable.

After you have established your proposal, your next step is to sell it to your

greens committee and/or membership. By using a little tact and careful planning, you can bring the odds into your favor.

One approach to selling your budget is by having your greens chairperson or committee formulate it with you. By going over costs and expenditures together, you won't be presenting any surprises come proposal time.

Let's face it: a greens committee is going to be more apt to respond favorably towards a budget proposal that they helped formulate. Another advantage to this approach is that the greens committee is aware of any capital improvements or events in the planning stages, thus helping you out with the planning of this year's and maybe even next year's budget too.

But no matter what method you decide to use to sell your budget, the objective should always be the same: to make your proposal look as attractive as possible. Even the most thought-out budgets are useless unless they can be justified and approved.

The time spent preparing a budget can also be looked at as an investment. By careful planning, you may eliminate problems which might occur later, especially during the last months of the fiscal year.

By considering the guidelines mentioned above, you can greatly increase your chances of success in preparing a budget which will work for you.

Help is all around you...

Where can you get help? Here are some places to look for ideas:

- Previous budgets are always an excellent reference. If you prepared the previous budget, go over it and find out how accurate you were. If you made mistakes, find out why and compensate in those areas for the upcoming year.
- Key employees. They may have ideas which may help you.
- Club accountant may also assist you.
- Trade publications and periodicals also are good.
- Superintendents at neighboring golf courses, especially the more experienced ones who have been in your area for awhile.

BUDGET PREPARATION CHECKLIST

Salaries & Wages	Make sure to add a contingency factor for overtime, raises, etc. Review old time cards and labor records. For wages, be sure to consider all permanent and seasonal employees plus extra labor.
Fertilizer	Look at past fertilizer records and fertilization programs. Also consider inventory on hand.
Chemicals	Fungicides, herbicides, insecticides, wetting agents, nematicides, etc. Consider present stock. Review old pesticide application records.
Irrigation	Review inventory, average cost-of-repair records for sprinkler heads, pipes, fittings, valves, drain tile, etc.
Equipment Parts	Parts for mechanical repairs can be projected from past cost records.
Gas & Oil	Again, past gas and oil records would give an accurate cost projection.
Golf Equipment	Pins, flags, stakes, cups, tee markers, towels, etc. Past records of vandalism would give an estimate of how much contingency to allow.
Landscaping	Include annuals, ornamentals, mulch, border edging, etc.
Sand & Topdressing	Look at past records.
Seed & Sod	Look at last year's overseeding records. Consider any sodding projects in the planning stages.
Electricity	Average past records
Water	Average gallons used over past years.
Telephone	Use past records
Tennis Courts	Past records
Swimming Pools	Past records
Miscellaneous	Employees' uniforms, office supplies, vehicle license and registration, dues, meeting and conference expenses.



Except maybe for Hawaii, no place has conditions like South Florida

This past spring, the South Florida chapter hosted a meeting with Dr. James Beard on getting back to the basics in turf management. All of us need periodically to hear this information again. After all, Dr. Beard did write *Turf Management*, the book that virtually all universities and colleges use for educating turfgrass students.

As I sat glued to my seat for five hours, something kept clicking in my mind: Southern Florida does not fit into the normal mold for the textbook. I guess the rest of the country is normal; southern Florida is truly unique.

"When do you first mow your rough

down here in the springtime?" Beard asked.

"Every Monday morning," I replied.

Let's face it: we don't go into dormancy down here. Maybe a light frost now and then, but the word "dormancy" is not a part of our vocabulary. Having traveled to Arizona, Texas and California during our three most recent GCSAA conferences, I am even more convinced that the only climatic region similar to ours is Hawaii — a true bermuda-base homefield.

Our topic for this issue of the *The Florida Green* is "Winter Preparations."

Let's get to the heart of the issue: Just how do we prepare for our winters in Florida?

First, we have mowed our greens 362 times this past calendar year. That's right. There were only three days that we did not mow greens! And even though our winters seem more like an overlap of fall and spring, we still must prepare for a heavy-play — Snowbird — season. Superintendents in South Florida have gradually changed their cultural practices over the past few years to policies more consistent with Dr. Beard's lecture.

Severely scalping turfgrass has a direct effect on the depth of root growth. Mow off the leaves and the roots die back.

(Please see IF THE MEMBERS, page 52)

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If the members want perfection in November, then they have to give us the course for renovation in the summer...

(Continued from page 51)

"Bermuda at a height of 6 inches can pass roots down to a depth of 7 feet!" says Dr. Beard. "Cut the bermudagrass back to less than one inch and you'll have less than an inch worth of roots."

Therefore, my summer projects incorporate more aerification, virtually no verticutting and absolutely no scalping.

For the past two years, we have aerified our greens five times during the summer. The tourists migrate north by the end of April and we begin "tearing up the golf course."

Our winter preparation actually commences the first of May.

We will aerify with 1/2 and 3/4-inch tines on walking-type machines for the greens, collars, green slopes, tee tops and tee slopes. No tractors or heavy equipment is used here.

Our schedule (underline indicates using DOT sand topdressing):

May: Greens, collars, green slopes, tees, tee slopes

June: Greens, collars

July: Greens, collars, green slopes, tees, cartpath wear areas, fairways, rough.

August: Greens, collars.

September: Greens, collars, green slopes, tees, tee slopes.

Let's review the benefits of the aerification program.

For the first time, 1/2-inch tines will be used without a topdressing, a practice some consider controversial, but I believe the benefits are greater to leave the holes open. An increase in the ratio of oxygen pore space to soil ultimately will decrease as the aerification soil wall deteriorates from irrigation, rainfall and surface mechanical wear. Open up the upper strata as much as possible. We should be so lucky as to create "soft greens."

Just as the greens are beginning to heal, we come right back in! For the next four months, we'll do the same thing: tear them up just when they're getting good! At my workplace, I can get away with it because we are such a seasonal club. We will not even have 110 members play for the entire summer.

I realize it's a great benefit.

If the members want perfection in the winter, they have to give us the course in the summer for renovation.

The greens are monostand Tifdwarf, the collars are planted outward to 15 feet, also with Tifdwarf. Tifton 328 bermudagrass is planted around the greens cut to a fairway height halfway down the slope. The tees, including slopes also are planted in 328. These grasses require special attention 12 months of the year. The visual and playing conditions, however, are rewarding enough to merit the maintenance hassle. It will take nearly a month to aerify all of the areas on the plan.

In June, we aerify only the greens and collars and, yes, we will topdress with enough DOT sand to virtually fill in all 3/4-inch tines holes. By the way, all aerification plugs will be cleaned off the greens, collars and tee tops every time. To drag the thatch across these areas will not take away the undesirable thatch.

July is much like May. By then the heavy summer rains have settled in. Topdressing the tees will be beneficial for the 328 and by this time the employees have the program down pat. Upon completion, we'll begin aerification of wear areas in the Tifton 419 bermudagrass around cart paths. We always do this operation last to reduce contamination.

August is much like June. By then the greens soil has truly been modified. Thatch is being removed and the topdressing is dragged in several directions to fill in the holes.

September is tough: it's very wet — sometimes 16 inches of rainfall — and sometimes we'll creep into October to finish the slopes.

After five months of tearing up the entire golf course, life begins to return to "normal." Our goal has been accomplished. The greens are nice and healthy, the tees almost look like greens, a winter fertilization program is now in full swing. And the crew is well aware of the long, hot winter still ahead.

After all, we will mow greens on Thanksgiving Day, Christmas and New Years. The entire crew will feel the pressure of producing a finely groomed golf course all the way through the winter until things calm down next summer.

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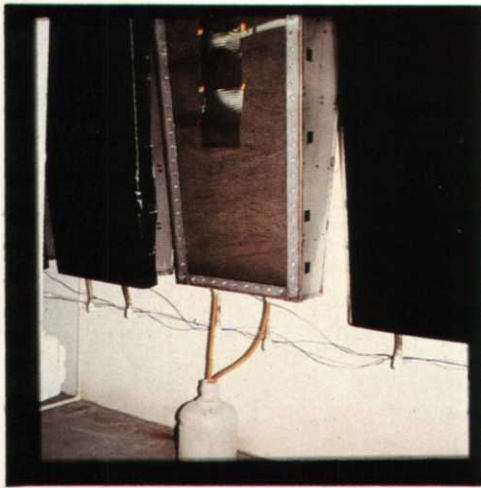
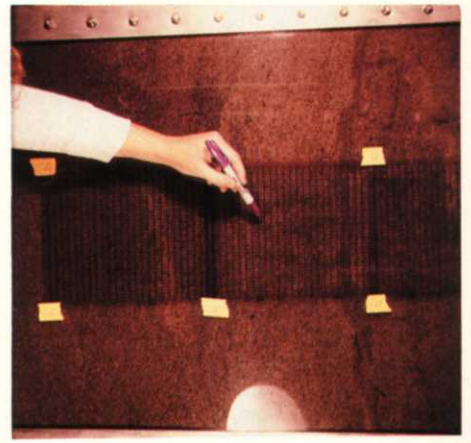


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JEFF PRITCHARD

Director Golf Course Operations, PGA West, La Quinta, California



Getting to the roots of some problems...

Those are no ordinary test plots in the photo above. They're actually the "roof" of a unique laboratory known as a "rhizotron," a subterranean structure for studying root growth (above right) and the leaching of chemicals through the soil (note tubes leading to jugs at bottom of photo on left). These photos were taken at the University of Nebraska. At a May 21 FGCSA meeting in Naples, FTGA Awards Chairman Bobby Rehberg suggested that the construction of a rhizotron at the University of Florida would be a worthwhile project for the Florida turf industry. "We could make the boxes slightly bigger in order to study various types of green construction," Rehberg suggested. "With the grief we're getting about pesticides, nitrates and fertilizers, this would be a great way to get some hard data to counter some of that bad publicity." Nebraska's rhizotron, which cost \$140,000 to build, consists of two wings off a central control room. An older, less elaborate rhizotron at Ohio State University cost less, he said.

If overseeding gets you bent out of shape...

POA TRIVIALIS BY RICHARD HURLEY, Ph.D.

Poa trivialis is native to all of northern Europe, temperate Asia and North Africa. It was introduced to North and South America and Australia. Brought to the United States from Europe during the colonial period, it is best adapted for growth in moist, shaded areas from Newfoundland and Ontario, Canada, to North Carolina and west to Minnesota and South Dakota. It has been reported in Colorado, Utah and as far south as Louisiana. *Poa Trivialis* can be readily found on the West Coast from Alaska to California.

Poa trivialis is commonly known by its scientific name, but is also referred to as rough bluegrass, rough-stalked bluegrass, shade bluegrass, rough-stalked meadowgrass, and rough meadowgrass. *Poa trivialis* produces a moderately fine-textured, light-green, medium dense turf. It is a cool season, sod-forming perennial which spreads by creeping leafy stolons, and may be found growing in soils with a pH ranging from five to eight, with

(Please see POA TRIV, page 58)

REDTOP BY A. DOUGLAS BREDE, Ph.D.

Somebody once said that history repeats itself. Many old-time turf managers will recall when professor Burt Musser at Penn State extolled the virtues of redtop in every turf planting during the 1940s and '50s. It offered quick establishment, fine texture and early spring transition.

As years passed, redtop use waned. But in the 1980s, with bentgrass prices on the rise, golf superintendents began re-experimenting with it.

"Superintendents like the qualities of bentgrass in overseeding," says Dr. Rich Hurley, vice president for research at Lofts Seed Co. "Redtop has the qualities of bentgrass but will establish quicker.

"The weakness of creeping bentgrass isn't in its rate of seed germination," says Hurley. "Bent actually germinates quite quickly. But the seedlings just sit there — they're tiny, little seedlings that don't contribute to the stand until late in the season. Redtop has

(Please see REDTOP, page 60)

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control in one easy application.**

If you've already encountered the mole cricket, you know how tough it is to control.

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CHIPCO® MOCAP® 5G delivers quick control of both Southern and Tawny mole crickets, including all known subspecies. In fact, Auburn University tests show that CHIPCO® MOCAP® 5G provides up to 96 % control. And that's as good as you can get.

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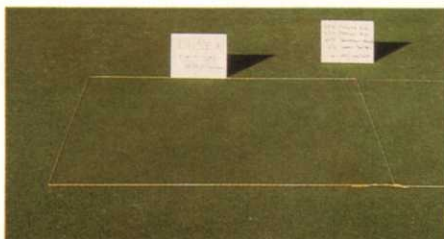
As with any crop protection chemical, always read and follow instructions on the label.

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**THEY HAVEN'T MADE
A MOLE CRICKET YET
THAT CAN STAND UP TO
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BRAND PESTICIDE

“*Poa trivialis* has been recommended for winter over seeding of dormant warm season turfs, usually in combination with the improved turf-type perennial ryegrasses.”



At left is Laser at 10 pounds/1000 square feet; at right is a mixture of 35% Palmer perennial ryegrass, 35% Prelude perennial ryegrass, 24% Jamestown chewing fescue and 6% Sabre poa trivialis at 20 pounds/1000 square feet.



Left is Pennway at 5 pounds/1000 square feet; right is 60% Laser and 40% Penncross at 7 pounds/ 1000 square feet.

Poa ‘triv’ retains color, can't tolerate traffic

(Continued from page 56)

best growth occurring between pH six and seven. Besides being well adapted to damp, shaded locations, it is also found growing in wet meadows, as a component of high fertility grasslands and along ditch banks. It has the ability to germinate and grow at low temperatures, displays good color retention in the fall, produces early spring greenup, germinates rapidly with good

seedling vigor, and has excellent winter hardiness.

Poa trivialis has been recommended for winter overseeding of dormant warm-season turfs, usually in combination with the improved turf-type perennial ryegrasses, with mixtures containing between 10 to 15 percent *poa trivialis* by weight.

Poa trivialis does not tolerate drought and is likely to be short-lived on dry sites. The root system is fibrous, relatively shallow, and annual. It may be severely damaged or killed during periods of moisture stress, especially in dry sandy soils. *Poa trivialis* also has poor wear tolerance and will not persist under heavy traffic.

There are approximately 2.3 million seeds per pound. Seed germinates under a wide temperature range with peak germination occurring at approximately 50 degrees F, with a reported base temperature of 40 degrees F. Base temperature refers to that temperature below which 50 percent of potential germination would not occur.

Rhizoctonia brown patch, leaf spot and dollar spot are the most common diseases associated with the grass. However,

ophiobolus patch, pythium blight, fusarium blight, rust, stripe smut and powdery mildew have also been reported as occurring on this species.

Before the release of “Sabre” *poa trivialis* in 1977, no domestic cultivars were commercially available. Most of the seed was imported from Europe. Common types are normally rather tall growing, light in color and form a loose-growing sod. They are of limited value for winter overseeding.

Development of cultivars which have a lower growth habit, a darker green color, the ability to form a dense sod, improved disease resistance, and reduced seed shattering would be helpful in expanding the potential usage of this species

• • •

Dr. Richard Hurley is vice president and director of research and agronomy for Lofts Seed, Inc., Bound Brook, N.J.

POA TRIVIALIS

- ✓ Perennial cool-season grass adapted to moist soils and shaded environments.
- ✓ Injured by hot, dry weather, but performs well in cool, shaded locations and is often the primary grass species found on these sites.
- ✓ Forms a rather loose turf which is intolerant of wear.
- ✓ Growth habit provides extensive shallow and surface roots, making it prone to injury by hot, dry weather.
- ✓ For attaining green color and a winter playing surface, utilized as a component in mixtures for overseeding greens and tees in southern United States.
- ✓ Ability to grow at low temperatures, displays good color retention in the fall, produces early spring green-up, germinates rapidly, has good seedling vigor and excellent winter hardiness.

MANAGEMENT TIPS...

- Cutting height** — Unlike perennial ryegrass, poa trivialis can be cut close immediately after overseeding. Once established, poa trivialis can withstand heights of cut below 3/16 inch.
- Fertility** — Schedule light, frequent applications of soluble nitrogen at 0.5

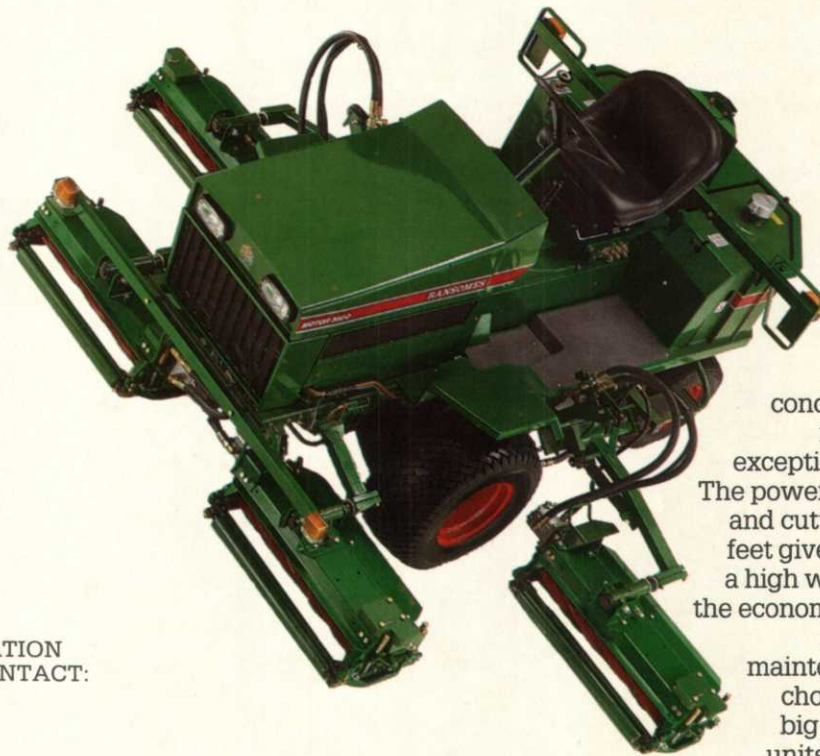
pounds/1000 square feet every two to three weeks after overseeding throughout the winter season.

Irrigation — During fall establishment period, water lightly 3-4 times per day between 10 a.m. and 4 p.m. As poa trivialis has poor heat and drought tolerance, water management is critical for successful overseeding.



Unerring accuracy is a must in negotiating the eighth at Ken Venturi's Eagle Creek Country Club, Naples, Florida.

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Ransomes Motor 350D provides a superb finish to fairway grass at Eagle Creek, keeping the course in top flight playing condition and adding measurably to its exceptional appearance. The powerful diesel engine and cutting width of 11½ feet give the Motor 350D a high work capacity and the economies so important in day to day turf maintenance. There's a choice of fixed head, big diameter cutting units for long grass or floating head Sportcutter cutting units for fine turf. Either way, you get a consistently good looking result. And that's grounds for seeing your Ransomes Bob Cat distributor. Or, call Ransomes Inc., One Bob Cat Lane, Johnson Creek, WI 53038, (414) 699-2000.

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RANSOMES

Redtop has superior seedling vigor

(Continued from page 56)

better seedling vigor, and the plants are more substantial. Redtop contributes to the stand early in the season."

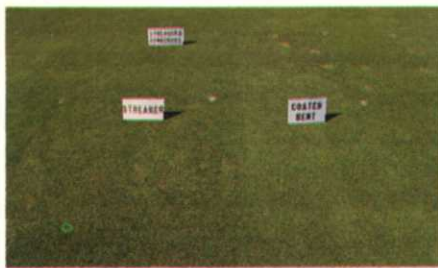
Redtop, being a close relative of bentgrass, mimics many of the qualities of bentgrass. It has 5 million seeds per pound, which compares quite closely to the 6 to 8 million per pound of bent. Redtop also has the soft, fine-textured leaf of bentgrass.

The big difference between the two comes in the spring. Following a fall overseeding, bentgrass produces one of the most luxurious late spring turfs in the overseeding business. Unfortunately, that's also about the time that the bermuda is staging a comeback. Redtop, on the other hand, prospers mainly in the fall and winter. As warm temperatures hit, redtop gives way to the bermuda.

In the 1984 National Dormant Bermudagrass Overseeding Test sponsored by the National Turfgrass Evaluation Program, redtop made the spring transition more readily than any other overseeding variety or blend except one.

Until recent years, the problem with redtop has been finding reliable seed.

Many times, golf superintendents have



JACKLIN SEED CO.

Al Dudeck and Bert McCarty at the University of Florida compared several overseeding mixtures during the winter of 1987-88. Mixtures of Streaker redtop with Penncross bentgrass displayed similar turf qualities during fall and early winter to that of Penncross alone. The summer 1988 issue of *The Florida Green* contained the data of this experiment.

discovered (after the fact) that their seedlot of common redtop was polluted with orchardgrass, or other undesirable crop plants.

Arden Jacklin, retired research director at Jacklin Seed Co., began working on the problems of common redtop in the early 1970s and several years later released "Streaker" redtop.

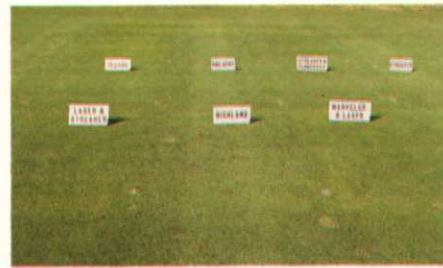
Streaker is sold as certified, which gives some assurance of varietal purity and integrity.

Farmers are paid a premium to ensure freedom from *poa annua* and seed of other crops.

Jimmy Ellison, golf course superintendent at Arnold Palmer's Bay Hill Club in Orlando, uses Streaker on his third nine.

"We use it in areas where we've had a lot of wear or thinning," says Ellison. "We go in with a two-to-three-pound rate of Streaker, and we'll see grass again real quick."

Hurley likes to see



JACKLIN SEED CO.

Addition of redtop to overseeding mixtures may offer finer texture, darker color, and easier spring transition than the use of perennial ryegrass or creeping bentgrass alone.

Streaker used as a component of overseeding mixtures.

"I'm a big fan of three, four and five-way combinations for winter overseeding," says Hurley, "because you don't know what kind of a fall and winter you're going to have. Florida can have highly variable conditions in the fall, winter and spring, from warm to cool, wet or dry.

"Having a redtop, a *poa trivialis*, a ryegrass and maybe a chewing fescue in the mix helps cover your bases. There's a lot of luck in getting a good winter overseeding catch, and a broad-based mix will sometimes help."

Redtop is used more frequently as a mixture component than straight. Its characteristics are best used to enhance the quality of other overseeding grasses.

Redtop also can be used as a "diluent" when overseeding bentgrass. If you would normally plant creeping bentgrass at 5 pounds per 1000 square foot, try planting a 50:50 mixture of about 2.5 pounds of bent and 2.5 pounds of redtop. This helps stretch your overseeding dollar, since redtop seed is much less expensive than creeping bent. Yet it retains the bent characteristics in the stand.

When adding redtop to perennial ryegrass, adjust the rate of the ryegrass down and include 10 to 15 percent redtop. For example, if you're using 30 pounds per 1000 square foot of ryegrass, reduce the rate to 25 pounds and add two to three pounds of redtop.

Like a bentgrass with no stolons

Even though redtop has been used for over 70 years, many people are unfamiliar with this species. Dr. Jim Beard's *Turfgrass Science and Culture* text says, "Redtop is one of the most widely adapted turfgrass species. It may behave as either a long-lived or a short-lived perennial, depending on the intensity of culture, soil and environmental conditions."

Redtop is a close relative of creeping bentgrass — both grasses are members of the *Agrostis* genus. Unlike creeping bentgrass, though, redtop has no stolons. Redtop creeps by means of strong rhizomes beneath the ground.

Redtop has the deep, slate blue-green color of creeping bentgrass. In the national test results from Florida, Streaker redtop scored an 8.3 in genetic color (with 9 equal to the darkest green), while most perennial ryegrasses scored in the 5.0 to 7.7 range.

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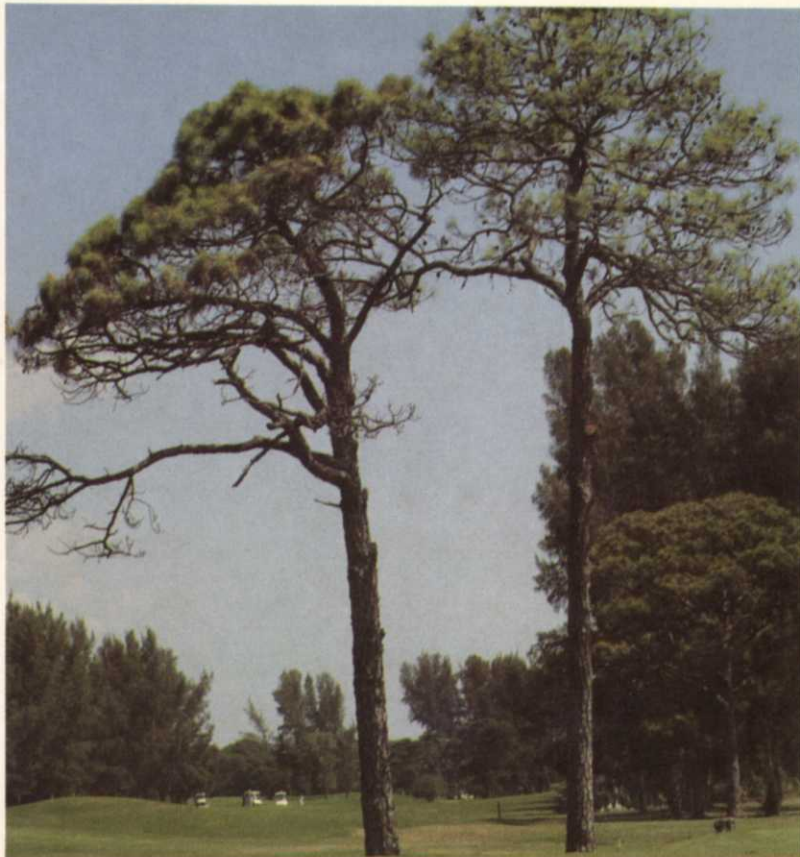
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DAVID WEDGE

There's no treasure in golden pines

BY DAVID WEDGE

WEST PALM BEACH — Golden Pine Syndrome, formally known as South Florida slash pine decline, is present on practically every golf course in Florida but little is being done about it. The last study in South Florida was done by Dr. Roger S. Webb at the University of Florida and was published in *Soil and Crop Science Society Proceedings* (43:34-35, 1984).

GPS is not a disease as such. It is a failure to thrive. *Two pinus elliotti showing severe South Florida slash pine decline. The author calls the condition "Golden Pine Syndrome."*

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Healthy trees show deep green color



Trees in transition lose needles



Deep gold is evident in advanced stages

because its natural environment has been altered by humans.

Studies from Florida to Virginia show that pines of all types are particularly sensitive to changes in their environment. In south Florida, the South Florida slash pine (*Pinus elliotti*) and the sand pine (*Pinus clausa*) are the species that seem to show the most sensitivity to human intrusion.

The syndrome is initially seen as a gradual yellowing of the needles. A progres-

sive loss of second-year needles occurs over a period of several years. Finally the first-year needles become progressively more chlorotic and the loss of needles becomes more dramatic.

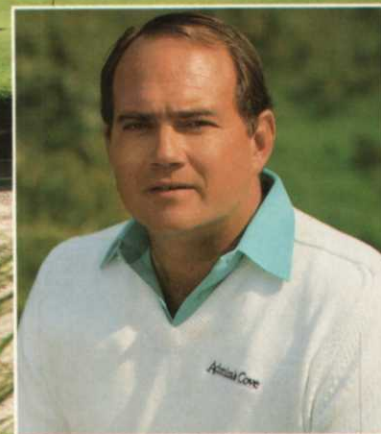
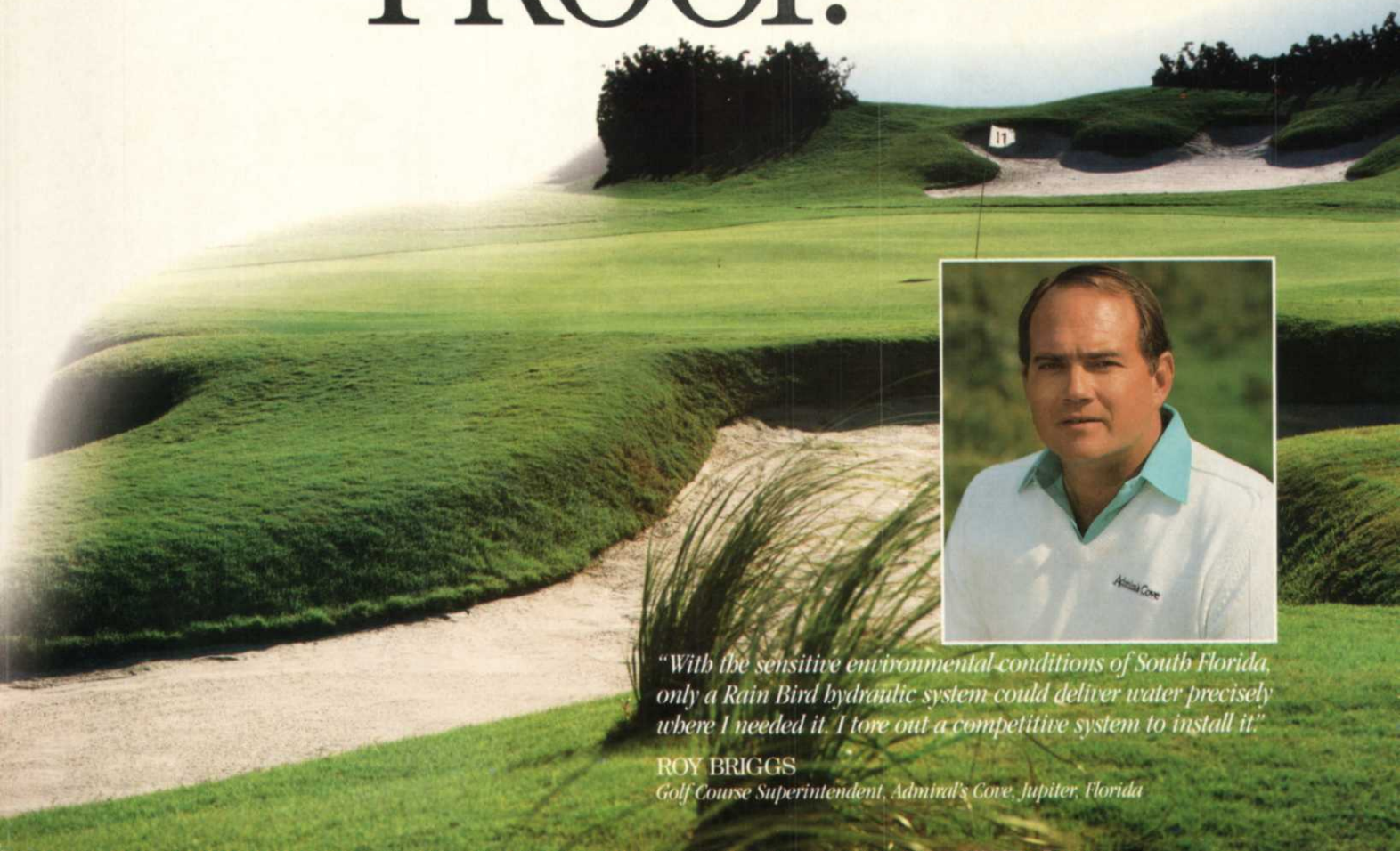
Eventually needles are reduced to the branch tip and tree death occurs, surprisingly often without an accompanying beetle infestation.

GPS is avoidable, however, and, in some cases, reversible.

Webb correlated GPS with commercial development of pine stands stressed by golf course, condominium and residential development along with grounds maintenance activities. Analysis of the annual growth patterns of trees killed by GPS has revealed that an immediate reduction of growth begins with construction of the golf course. Changes in grade, turf installation, mechanical damage to roots and irrigation

(Please see IT'S NOT, page 64)

PROOF



"With the sensitive environmental conditions of South Florida, only a Rain Bird hydraulic system could deliver water precisely where I needed it. I tore out a competitive system to install it."

ROY BRIGGS

Golf Course Superintendent, Admiral's Cove, Jupiter, Florida

It's not the water, it's what's IN the water...

(Continued from page 63)

practices all play a part.

Grade changes: No tree should ever be covered above the root flare. When essential roots are covered, they die from suffocation.

According to information gathered over

the past several years by Dr. Ed Gilman of the University of Florida, tree roots extend as much as three times the canopy width and within inches of the soil surface. Eventually, his work should help improve our tree-moving and maintenance techniques.

Turf installation: Although turf itself does not damage the tree roots, it competes significantly for limited nutritional sources.

Mechanical damage: Root damage from heavy mowing equipment, soil compaction, and the application of chemicals used in turf management are not always in the best interest of trees.

Irrigation: In general, it isn't the water which creates the problem; it's what's in it. Pine trees are adapted to acid soils. Water drawn from wells deep in the limestone aquifer, or surface water flowing through underground coquina rock formations produces highly alkaline irrigation water.

Current thinking is that the raised pH in the soil destroys the mycorrhiza which are associated with the roots.

Superintendents must institute every available horticultural water-saving technique. By limiting unnecessary turf areas, planting large amounts of trees, and incorporating mulch into their landscape maintenance programs, superintendents can be green industry leaders for maximizing their resources.



DAVID WEDGE

Notice that the only healthy pine in this stand is the farthest from the fairway.

... And here are some things you can do about it

Summer is an ideal time to institute some tree-care practices that may improve the beauty of your golf course, reduce water consumption and reverse early GPS-affected trees. Here are a few suggestions:

1. **Get a comprehensive soil analysis** of the areas near planned pine restoration sites.
2. **Leave native understory plants** undisturbed near pines. Where turf already is present, kill it off to the drip line of the tree. Mulch with pine straw, pine chips or cypress chips (in that order of preference) and allow the natural accumulation of pine needles under the trees. Interconnected groups of pine trees with mulched areas facilitate mowing and maintenance.
3. **Fertilize** in proximity of pine trees only with acid-forming fertilizers to prevent a rise in soil pH.
4. **Pines injured** during the clearing process should be sprayed with an appropriate insecticide.
5. **Downed trees** should be chipped and, after fumigation,

these chips can be used as mulch to interconnect large tree groups.

6. **Limit irrigation** or deflect it from pines. Only golf courses have the ability to grow algae four feet up the trunk of a pine tree.
7. **Mulch** does so many things for the landscape: it cools the rootzone and improves water retention in unirrigated areas even during drought. Roots are very sensitive to changes in temperature and mulch insulates the rootzone. Mulch encourages microbial activity and soil composition; it breaks down and releases natural organic acids, lowering the pH level. Not only does it control weeds, it fights compaction by providing shelter for soil organisms that live under natural leaf litters. And mulched areas provide beautiful color contrast.
8. **Schedule winter injections** into the cambium by a trained professional arborist. Studies have shown that injections do work when they are done correctly.



DAVID WEDGE

The jacaranda is planted in more locations in the world than any other flowering tree.

Tree conference draws 25 experts

WINTER HAVEN — Landscape architects, tree consultants, arborists and landscape maintenance professionals from around the world attended the 10th annual Menninger Sunbelt Tree Conference at Cypress Gardens April 16-19.

Among the 25 speakers were:

- Roberto Burle Marx of Brazil, world renowned for his use of flowering trees in landscape design.
- Dr. Henry M. Cathey, director of the United States Arboretum, who discussed "Tough Trees for Tough Times" and the new U.S. Department of Agriculture hardiness zone map.
- Donald C. Wileke, director of the American Forestry Association and chairman of the Minnesota State shade tree advisory committee who discussed the greenhouse effect.
- Dr. Nina Bassuk of Cornell University, who spoke on "Tree Stress in Urban Areas."

The conference concluded with a three-hour study tour of Bok Tower Gardens in Lake Wales, led by its director, Dr. Jon Shaw.

Superintendents interested in sending a staff member who specializes in tree care to next year's conference should contact David Wedge, 1044 Macy St., West Palm Beach, FL 33405; phone 407-588-0664. Cost will be about \$350.



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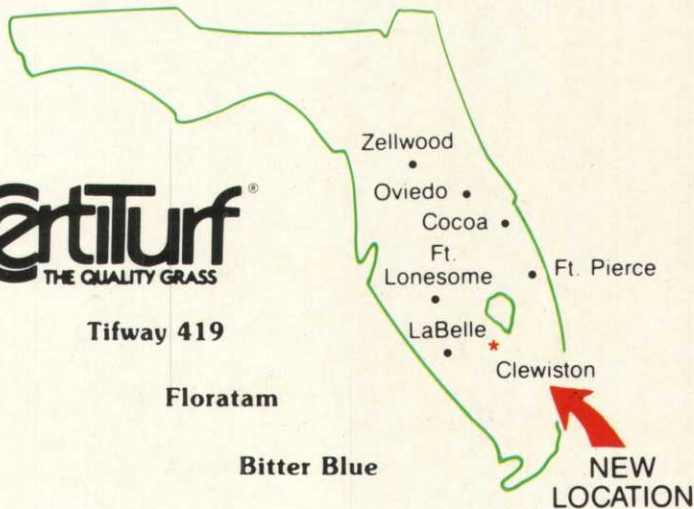
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BUSINESS & AGRONOMY

Tiny wasp 'promising' against some roaches

BY DARCY MEEKER

GAINESVILLE — A little wasp about the size of two fleas strung together shows promise as a biocontrol for cockroaches and palmetto bugs, says a University of Florida scientist.

The wasps lay their eggs on roach egg capsules and "parasitized" 100 percent of the roach eggs found in dark locations in test kitchens, said Dr. Phil Koehler, an entomologist with the UF's Institute of Food and Agricultural Sciences.

"One of the nice things is that this wasp prefers all the dark places that are hard for us to spray, like inside walls and behind kitchen cupboards," Koehler said. "People could have these living in their houses and

never see them."

The wasp "stings" only roach eggs, not people, he emphasized.

In earlier research with graduate student Brian Hagenbuch, about 600 wasps were released per week for seven weeks in test kitchens. By the end of that time, wasp larvae infected over 93 percent of roach eggs in and on cabinets and on the floor. In another month, infection rate was over 97 percent except on the ceiling. The research is to be published this fall in the *Journal of Economic Entomology*.

Unfortunately, the wasps are of no use against the pesky little German roach which protects its egg case by carrying it around. Nor are they effective against the Asian

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roach, another egg case carrier.

"Some of our roach problems may be the result of generally applied pesticides," said Koehler. "If you do a lot of spraying, you may be giving yourself a worse roach problem in the end by destroying roaches' predators and parasites. Where we stop spraying, we may be able to re-establish these wasp biocontrols.

"We got our colony of the wasps (*Testasichus hagenowii*) when they appeared in a university lab in 1986 after it switched from sprays to a bait to control roaches," said the IFAS extension entomologist. "Baits do not attract or kill most of roaches' natural enemies. It would be interesting to know how much their effectiveness comes from buildup of natural enemies like the wasp."

One way to distribute the wasps would be to release clouds of them in the spring on roaches' overwintering spots.

"Usually there's one palm tree or other

gathering spot that has thousands of roaches in it, that serves as a roach source for the whole neighborhood," said Koehler, working with scientists at the "Insects Affecting Man and Animals" Laboratory, a Gainesville outpost of the USDA Agricultural Research Service.

There's a lot of research that must be done first, however, Koehler said, and with little grant money available for roach biocontrol, the project depends on grad student interest.

"Luckily, Juan Correa Curbelo from Puerto Rico has decided to do his Ph.D. on the wasp, even though we could offer him no support.

"We've just been trying to maintain the colony until we could get somebody like him in here," Koehler said.

Curbelo will work on faster ways of raising the hagenowii wasps and researchers will see if its pupae (an encapsulated resting stage between worm-like larvae and



DARCY MEEKER/IFAS

Dr. Phil Koehler of the University of Florida's IFAS holds a vial of roach-marauding wasps.

free-flying adult) could be freeze-dried and distributed like a pesticide.

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PURDY FAMILY

It was a 'Purdy' good experiment...

OVIEDO — Dew may not be dew, but doing the work to find out why turned out to be worthwhile for the 12-year-old son and namesake of Duda Sod's general manager of North Florida sod farms and foliage.

Lloyd — “everybody calls me ‘D’” — Purdy III, a sixth-grader at Oviedo's Jackson Heights Elementary School, won first place in botany for his grade level at the Seminole County Science Fair with a project based on the article in the Fall 1988 issue of *The Florida Green*, “Dew is Not Dew” by Tom Mascaro.

“When my dad brought the article home, I thought it was kind of interesting,” said “D.” “I mean, I

Lloyd “D” Purdy accepts the first-place trophy for sixth-grade botany projects in the Seminole County Science Fair. Purdy's project was based on an article in The Florida Green.

wondered what the stuff was if it wasn't dew. So I just sort of duplicated the experiments in Mr. Mascaro's article.

“And they came out just like he said they would.”

“This is about the fourth year he's done Science Fair projects — all the kids have to do them every year — but this is the first time he really got interested,” said the elder Purdy. “I think it's because the results weren't predictable and he was able to teach others something they didn't already know.”

The project was based on three liquids — dew collected off the windshield of the family car, tap water and exudate gathered quite laboriously from the grounds at Tusawilla GC in nearby Winter Springs.

“That's the only part that wasn't always fun,” said the youngster. “Some of those mornings, it got

(Please see page 70)



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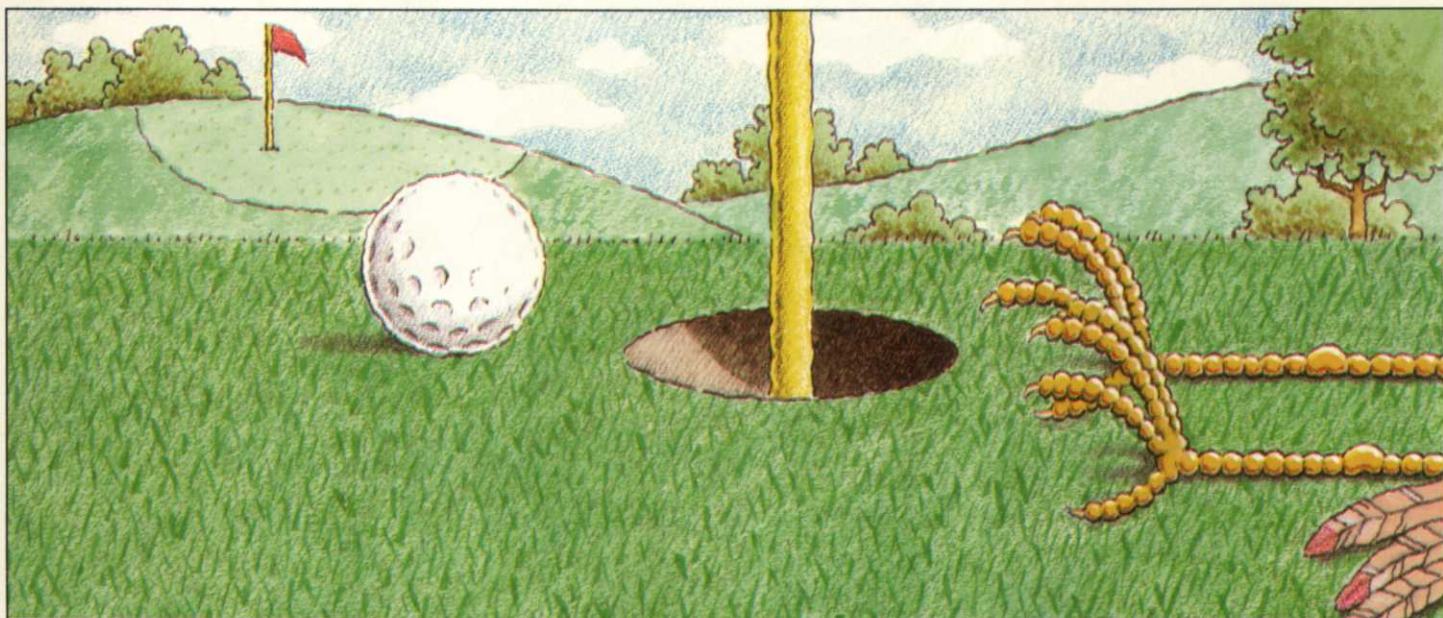

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THE FLORIDA GREEN / SUMMER 1989



'One of the neat things is that he kept working with the experiment right up through the time he took it to the state Science fair' **-Sixth-grade science teacher**

pretty cold."

"D" proved that exudate, the liquid found on turfgrass in the morning that most people call "dew," differs significantly from real "dew," condensate formed by the overnight contact between moist air and cold objects. Among other things, he showed that exudate grows mold much faster than either of the other liquids.

"One of the neat things is that he kept working with the experiment, right up through the time he took it to the state Science Fair in West Palm Beach," said Catherine Elder, Purdy's sixth-grade science teacher. The soft-spoken youngster, who

plays trumpet in the school band, takes piano lessons and is on the soccer team, also wrote to Mascaro, thanking him for providing the foundation for the prize-winning project.

Purdy did not win any major prizes at the state level, but he was competing in the middle school category with seventh and eighth graders.

"He used excellent scientific method," said Donna Poniatowski, a science teacher at Oviedo High School and Seminole County's Science Fair coordinator. She ac-



PURDY FAMILY

"D" won a portfolio from the University of Florida at the state-level Science Fair in West Palm Beach.

companied Purdy to the state contest. "It was an excellent project but there were 400 other entries at his level and two-thirds of them were older than he."



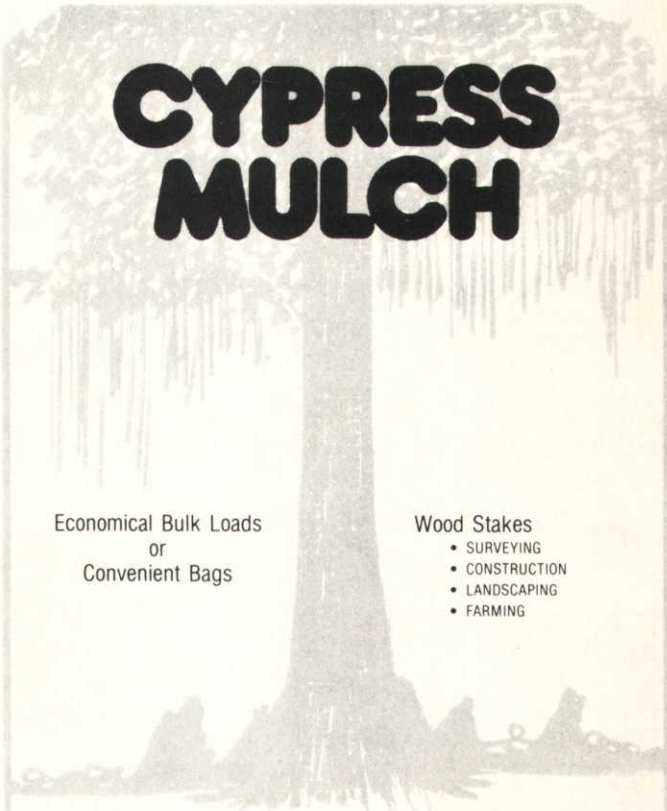
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The youngster did get a portfolio from the University of Florida for developing a significant project in agriculture.

Is there a budding turf scientist in the Purdy family?

"I fully expect to have Dr. Purdy come back and visit me some day," said Elder, his sixth-grade teacher. "But frankly, I don't think he'll be in agriculture."

"No, I think I want to be an engineer and maybe work in space," said Purdy.

"But I am thinking about continuing the exudate experiment for next year's Science Fair. Or I might do some work with photosynthesis."

Rain Bird founder loses cancer battle

GLENDORA, Calif. — Mary Elizabeth LaFetra, former president of Rain Bird

Sprinkler Corp., died of cancer March 27 at age 79.

She founded the company with her husband Clement, who died in 1963, and served as its president from 1951 to 1976. LaFetra's son Anthony became president in 1977, the year she retired as chairman of the board

Well known for her numerous philanthropic activities, LaFetra served on the board of directors for many local and national organizations. She was elected president of the LaVerne College board of trustees in 1971, a position she retained until



Mary E LaFetra

1982.

Following her retirement, she fulfilled a lifelong wish to complete her own college education and in 1982, at the age of 73, she

(Please see next page)

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(Continued from page 71)

became the oldest student to graduate from Pomona College.

Rain Bird's first product, the first positive-force impact sprinkler, revolutionized the irrigation industry. Today, the organization stretches around the world with facilities in the United States, Europe and the Far East. Rain Bird products are used to irrigate agriculture, homes and commercial and industrial complexes in more than 100 countries.

In addition to her son Anthony, LaFetra is survived by one daughter, Sarah Ludwick, and five grandchildren.

• • •

People in the news...

Jere E. Moore has joined Sunniland Corp., a Sanford-based manufacturer of fertilizer and chemical products and a whole-sale distributor of roofing products

as a marketing assistant. A recent graduate of the University of Florida with a bachelor of fine arts degree, Moore will help prepare and execute the corporate marketing programs and help research and develop new packaging and products.

Rain Bird offers compact controllers

Rain Bird's new RC-4Bi, RC-7Bi and RC-1260Bi controllers feature a compact, economical design for residential and light commercial applications. These new models combine reliable electromechanical operation with a variety of performance features.

Available in four-, seven-, and 12-station models, these indoor-mount controllers include a 14-day calendar. They can be programmed with the easy, at-a-glance dials and offer station timing of three to 60

minutes (in one-minute increments) and six to 60 minutes (in two-minute increments) with one to 23 automatic starts per day.

For areas where watering restrictions are in effect, an optional 15-day calendar dial replacement kit is available for three-day or five-day watering schedules.

For more information on Rain Bird's compact RC-4Bi, RC-7Bi and RC-1260Bi controllers, write Rain Bird Sales, Inc. Turf Division, 145 N. Grand Ave., Glendora, CA 91740.

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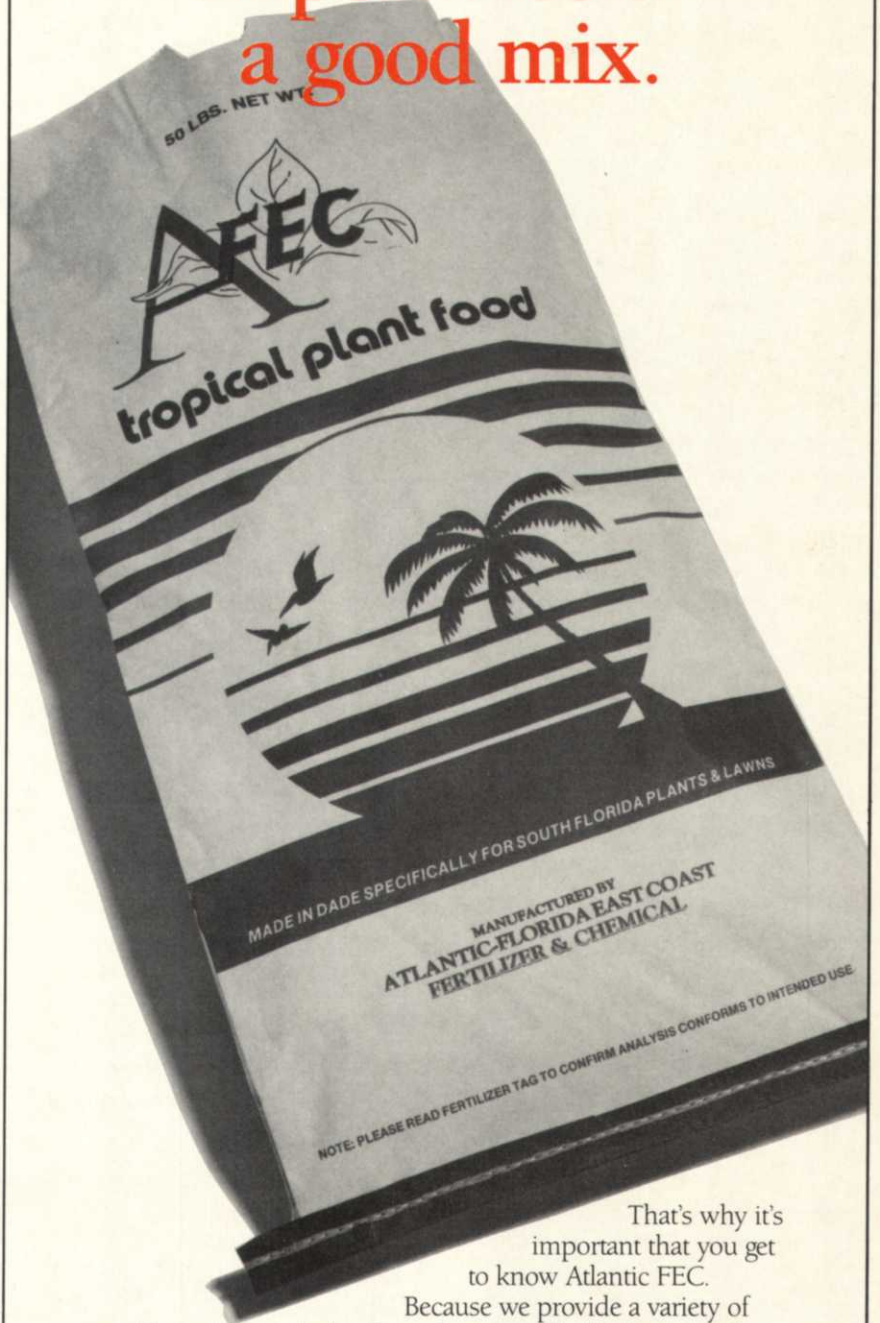
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Index to advertisers

AFEC	73
Almar	51
Amer-Aquatic	32
Aquatrols	37
Beeconomist Systems	74
Black Rock Paving	45
Blazon	21
Boynton Pump	71
Brouwer	61
Central Florida Turf	33
Chemical Containers	51
Club Car	40
Cushman-Ryan	13
Delray Stake	70
DNA Enterprises	38
Douglas Products	31
Ducor	67
Duda Sod	65
Elanco	7, 10, 11, 75
Emco	34, 71
Florida Silica	36
Florida Turfgrass Association	48
Hahn	44
Hector	Ins
Jahna	20
Lake Doctors	68
Lantana Peat	41
Lesco	Inside front cover back cover, 5
Liqua-Tech	70
Liquid Ag	29
Lofts Seed Lazer	9
Lykes Agri Sales	47
Mobay Nema-cur	19
Neff Machinery	53
Northrup King	65
Nutri-Turf	43
Orcal	69
Par Ex	Inside back cover
Rain Bird	54, 55, 62, 63
Ransomes	59
Rayside Truck & Trailer	66
Regal	17
Rhone Poulenc	14, 15, 57
Snapp Tree Service	52
South Florida Grassing	42
South Florida Turf Products	32
Southern Turf Nurseries	49
Spread-Rite (Sapp)	71
Standard Golf	39
Sunniland	16
Tifton Turf Farms	72
Trans Resources	25
Turf Industry Personnel	66
UTEC	18
Valent	26, 27
Wesco Turf	68
Woodbury Chemical Co.	35
Zaun	67

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Dew's heavy in Oregon

In a recent edition of *The Florida Green*, you carried an article by Tom Mascaro entitled "Dew is not Dew." It was since re-published in the *Carolinas Newsletter*.

Since we live in an area of heavy dew, I am sure that the article would be of interest to many of the readers of the *OGCSA Newsletter*. Could we have permission to reprint the article or would this have to be obtained from Tom Mascaro?

I have long intended to write you and congratulate you on your fine publication. Since we have nowhere near the courses or advertisers that you have in your area, we do the best we can with our limited resources.

Dick Malpass, Executive Director
Oregon GCSA
Vancouver, Wash.

We all share the pride

Congratulations to you and the *Florida Green* for the best cover award in the GCSAA contest. Your continued excellence in this area makes all of us in Florida very proud to be a part of such a great association and have such a great champion in the magazine field representing us. Many thanks for all your efforts.

-Bob Sanderson
Del Tura CC
North Fort Myers

Articles have broad applications

One of the good things about a magazine like *The Florida Green* is that ideas presented in articles do not necessarily apply only to the particular subject matter.

Mike Bailey's "Run for your Life"

about good lightning design for golf course rain shelters and restrooms opened my eyes to problems in an entirely different application. We are reconstructing a shower house near the ocean at our Beach Club. Mike's recommendations caused me to review and change the entire design!

I used about 10 of his 24 recommendations and I think our members will now be better protected when they leave the ocean to shower off.

The message is: "Don't skip articles because you don't think they pertain to you."

All good ideas are useful someplace.

-Bob McGarvey
Palm Beach Biltmore

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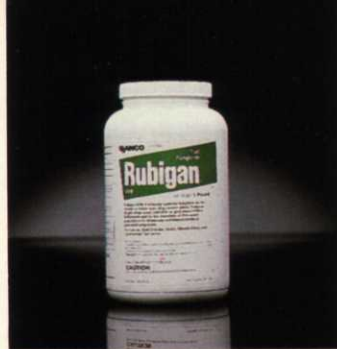
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It was one of the nicest birthday presents I have ever received.

Just a few hours after my biorhythms began their 48th annual cycle, your board of directors voted to award my company, Janlark Communications Inc., a contract to publish your magazine beginning next year. The action taken by your board amounted to an overwhelming personal vote of confidence.

My first prayer, then, is that I might never violate that trust you have placed in me. As we grow together, I hope none of us ever forgets that the FGCSA and Janlark began their relationship because some real people genuinely liked and trusted one another.

The second prayer is that I might never forget that *The Florida Green* is your magazine. If your magazine doesn't serve you and your association, it will be time to look for a different publisher.

During the five months of discussions that led up to the board meeting of May 21, some of the most difficult moments occurred as we tried to decide whether the magazine's primary function is education or public relations.

The magazine can serve both roles, but one must take precedence. Is it a public relations tool that educates its members? Or should it be a good educational tool that reaps public relations benefits?

We finally settled on the latter.

Also coming under scrutiny was the matter of geography. Some think the magazine has been biased towards South Florida.

As a 15-year observer of the Florida golfing scene, I estimate that at least a third of all the state's golf activity takes place in the three Gold Coast counties. When you consider that Southwest Florida is the fastest-growing golf area in the nation (according to the National Golf Foundation), *any* golf publication in Florida is going to appear slanted towards the South.

However, the situation has been aggravated because your publication has been produced by members who live in South Florida and depend on help from their colleagues.

The arms easiest to twist are those within reach.

Under the new arrangement, your magazine will be pro-

duced by a full-time professional staff that will be expected to cover the whole state. . . from the center of the state.

Hopefully, superintendents will continue to form the backbone of the reporting staff but no arms will be twisted.

The most important aspect of the publishing agreement, and one which required no negotiating, is the issue of control. It's *your* magazine. Your association must control it.

The mechanics of exercising that control are much too involved to discuss here, but, in summary, all policies — everything from advertising rates to suitable story ideas — will be set by the publications committee. Every major story will be approved by a superintendent-editor before it is written and *every word* will be approved by that same editor or his assistants before it is set into type.

This joint venture may not be profitable for anybody but the telephone company and manufacturers of fax paper.

Speaking of profits, our agreement assures income to the FGCSA right off the top. You get a percentage of the gross revenue roughly equivalent to what had been turned over to the association in previous years. It's up to me to try to make a profit out of what's left.

Finally, I must say a few words about Dan and Irene Jones, who have written *The Florida Green's* 15-year success story.

The enormity of their accomplishment is staggering.

Dan and Irene have succeeded where experienced publishers have failed because Dan and Irene have been dedicated to serving this profession. They have done things the hard way, the long way, the complicated way and sometimes the inefficient way, all because no one had shown them the professional shortcuts. And who would like to argue with the awards they have earned for the FGCSA? Not I.

When I can hang some agronomy awards next to the journalism hardware on my wall, I will be able to stand in their league. In the meantime, I intend to follow their formula: fairness, humility and dedication to service.

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