

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-



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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.



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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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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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

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



LARRY KIEFFER/LANLARK

**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 | Joe Churchill 124-100 | Dana Hager NC |
| Adrienne Jahna 102-87 | John Barrett NC | Sonny Smith NC |
| Dennis Niemayer 116-90 | Steve Demillio NC | Steve Tubbs NC |

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