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 “particularly 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)
FIGA

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.


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 turgrasses and management techniques that will reduce golf course maintenance costs and water use by 50 percent by 1993.

(Please see DROUGHT, page 18)
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 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 to list. 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 immediately. 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/Sugar Mill 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)
LAXE CUY 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.

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 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 Boiler, 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 Larson, 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)
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-plus-hour 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-
Norm Magica, 61.05; 3. John Foy-David Olive-
4. Gary Hayde-Glenn Klauk; 5. David
Mooe-Bill Wilson, 63.45; 6. Ron Garl-Max Brown,
63.55.
7. Rick Walker-Sid Solomon, 63.9; 7. Dick Bessire,
Gary Lewis, 63.9; 8. Scott Hamm-John
VanVranken, 63.9; 10. Gordon Lewis-Fuhr, 64.2;
11. Jerry Redden-Paul Golf, 64.2; 12. Tom Bene-
field-Greg Piotter, 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;
Smith-Lottes 67.3; 23. Shevlin-Glase, Duffy-Leary,
Millhollen-Lemmel, Powell-Zakany 67.8,
27. Ayers-Miles 67.95; 28. Bittner-Ray, Spanhair-
Cozelmann, Sartan-Miller, Fatica-Rejko 68.15; 32.
Humes-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)
Norm Magica, 61.05; 3. John Foy-David Oliver,
62.6; 4. Gary Hayde-George Palmer; 5. David
Mooe-Bill Wilson, 63.45; 6. Ron Garl-Max Brown,
63.55.
7. Rick Walker-Sid Solomon, 63.9; 7. Dick Bessire,
Gary Lewis, 63.9; 8. Scott Hamm-John
VanVranken, 63.9; 10. Gordon Lewis-Fuhr, 64.2;
11. Jerry Redden-Paul Golf, 64.2; 12. Tom Bene-
field-Greg Piotter, 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;
Smith-Lottes 67.3; 23. Shevlin-Glase, Duffy-Leary,
Millhollen-Lemmel, Powell-Zakany 67.8,
27. Ayers-Miles 67.95; 28. Bittner-Ray, Spanhair-
Cozelmann, Sartan-Miller, Fatica-Rejko 68.15; 32.
Humes-Reano 68.6; 33. Jarrell-Majewski 68.8; 34.
Fischer-Seigfried 69.3.

**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 (Ed Fatica, Mike Smither,
Tuck Tea) 295.

**SUPERINTENDENTS (GROSS):** 1. Marlon Buckner
71; 2. Mark Hopkins 71; 3. Fred Klauf 72; 4. Dave
Oliver 73. NET: Walt McMahon 65; 2. Dan Surman

**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

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

**CENTRAL FLORIDA**
Joe Ono ........... 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 Golf! .......... 79-71
Hank Maua .......... 99-71
Mark Black ........ 82-72
Roy Bates .......... 88-72
Bob Sanderson ....... 89-73
Lou Conzelman .......... 84-73
Bill Perry ........ 90-73
Kevin Scott .......... 80-74
Bob Shevlin ....... 85-74
Jim Witt ........ 92-74
Mike Mongoven ....... 98-74
Mark Talmadge ....... 84-74
Dick Naccarato ....... 85-76
Pat Raley .......... 86-75
Steve Giardullo ....... 90-75
Dave Hale .......... 94-76
Bill Brooks .......... 94-76
Jack Faulk .......... 83-77
Mark Atwood ........ 95-77
Dick McCoy .......... 100-77
Dave Moore .......... 94-79
Wayne Lippold ....... 102-78
B Carmouche ....... 104-87

**NORTH FLORIDA**
Fred Klauf .......... 72-69
Eddie Snipes ........ 104-97
Tom Cowan .......... 95-89

**PALM BEACH**
Walk 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 .......... 86-75
Dave Court .......... 81-76
Pat Kerney .......... 89-76
Scott Foster ........ 105-77
Bill Whittaker ........ 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

Lake City graduates 35
(Continued from page 20)

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

**TEST CERTIFICATES** — Darby Bailey, Lake Park;
Johnny Collins, East Point; Ray Hohenstein, White Springs;
Owen Kane, Tallahassee; Steve McNell, Lake City; Chet
Marlowe, Daytona Beach; Mark Majek, Lake City; Paul
Merritt, Wellborn; Robert Paisley, Franklinton, La.;
Steve Plummer, Newberry; Chris Rhoden, Mac-
clenney; Linda Smith, Fort Myers.
ASSOCIATION NEWS

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

SUNCOAST
Mike Mies ............. 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 Carr ............. 86-78
Rick Wise ............. 106-88

WEST COAST
Tom Benefield .......... 85-71
Greg Plotner .......... 89-75
Cecil Johnston .......... 102-76
Frank Cook .......... NC

SUPPLIERS
Dave Barnes .......... 92-65
Bill Lloyd ........... 77-66
Bernie Smith .......... 70-68

1989 Poa Champion
Marlon Buckner

Dick Bessire ........... 74-69
Tom Holmes ........... 73-73
John Foy ............. 82-70
Nat Hubbard ........... 90-70
Roger Hruby ........... 88-71
Bill Fowler ........... 75-72
Gary Hayde ........... 87-72
Georg e 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 McNinnis .......... 94-69
Gordon Lewis .......... 79-72
Mike Massey .......... 83-72
Jim Parker .......... 79-73
Greg Wright .......... 83-73
Daryl Rejk ............. 85-73
Rodney Davis .......... 84-74
Chuck Garrett .......... 86-74
Keith Longshore .......... 85-75
Max Brown .......... 96-75
Charlie Campbell .......... 94-76
Joe Conoly .......... 94-76
Buch Gil ............. 88-77
Joe Johnson .......... 100-77
Don Delaney .......... 88-78
Bill Stonestreet .......... 96-78
Bob Toski .......... 96-78
Odell Spanhour .......... 94-79
Mike Bonetti .......... 99-73
Joe Kempener .......... 107-82
Greg Pagano .......... 104-83

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 Annua 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.

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