

#### LESCO Standard-Particle Fertilizer

Best suited for use on turf mowed

above one inch, the LESCO line of standard products offers all the efficiencies and benefits of quality sulfur-coated fertilizers. Controlled nutrient release for up to 90 days provides consistent feeding and steady greening. Use of LESCO sulfur-coated fertilizers reduces the

Professional
Turf Fertilizer

30-5-10

risk of burn and decreases the loss of nitrogen through leaching and volatilization.

Not all fertilizers are created equal. Choose the particle size that's right for

your course and talk to your LESCO sales representative about the wide variety of analyses



quick shipment and forklift delivery from our Sebring, Florida production facility. And ask, too, about the

new greens-grade soil amendments and fertilizer/control product combinations.

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



## LESCO

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

# Not all fertilizers are created equal.





# If you run into a turf-management keep running. Aliette® brand fungicide. Its powerful systemic action protects turfgrasses for up to 21 days.

But for virtually every other turf-management problem you face, you can count on a quality Chipco\* product to deliver the proven performance

Take our premium fungicides, for example. Chipco\* brand 26019 fungicide provides unsurpassed control of all major turf diseases. And its longlasting protection makes it the perfect foundation for a season-long disease control program.

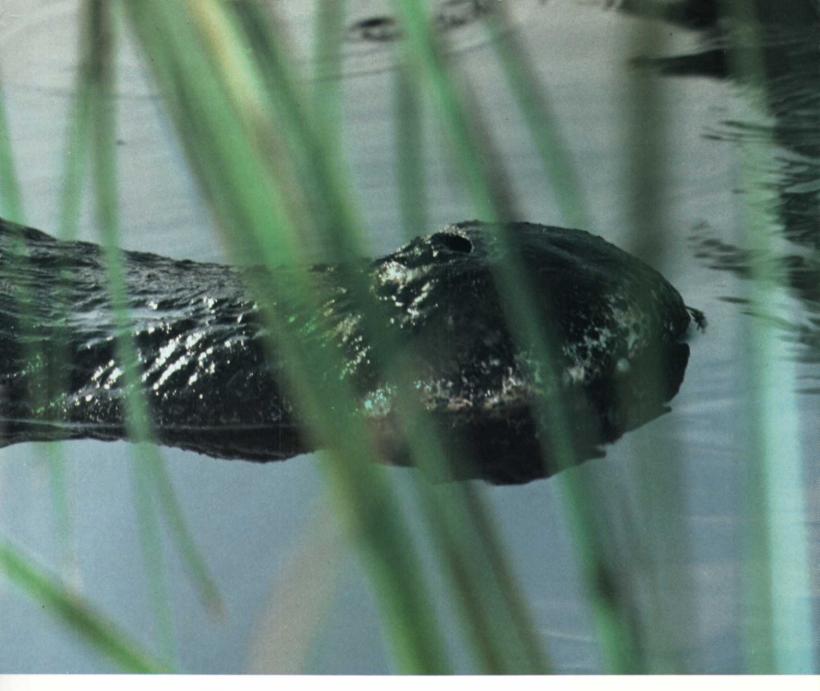
For Pythium control, you can't beat Chipco®

protects turfgrasses for up to 21 days.
Grubs, mole crickets and surface-feeding insects

a problem? Depend on the powerful twosome of Chipco® Mocap® 5G and Chipco® Sevimol® Chipco® Mocap® 5G pesticide delivers effective, fast, dependable control of grubs, mole crickets-all species-

and a wide variety of surface-feeding pests.

Chipco® Sevimol® is a special liquid formulation of Sevin® brand carbaryl insecticide for broad spectrum defense against grubs, sod webworms, chinch bugs, bluegrass billbugs, mole crickets and more than two dozen other turf pests. Chipco®



# problem Chipco products can't solve,

Sevimol® can be used to protect your trees and

ornamental plantings, as well.

Chipco® Ronstar® brand herbicide tackles more than 20 of the toughest broadleaf and grassy weeds—including goosegrass and crabgrass—for up to 120 days from a single pre-emergence application.

And Chipco® Weedone® brand DPC herbicide gives you upmatched post emergence control of

gives you unmatched post-emergence control of more than 65 annual broadleaf weeds.

So, for the turf-management problem Chipco<sup>®</sup> products can't solve, keep a pair of sneakers handy. For all the others, turn to the first name in quality turf care: Chipco.



#### The Florida Green

Official Bulletin of the Florida Golf Course Superintendents Association

Winter 1990



Mr. Lee's a good old Joe ......65



Tom burrows to the root of things ...... 48



Dan reflects on 16 years ......88

		S R	$\overline{}$	-	_	
- NJ	- 100		-			•••

Florida's Scandinavian connection8	
Ross course in Orlando to get facelift 10	
Architect revises greens manual12	

#### FLORIDA GOLF STORY

Florida's \$5 billion industry	16
Florida was first	
Course makes its own water	22
29 great Florida golf courses	28
FGCSA passes 600 mark	32

#### FGCSA SPOTLIGHT

Greatest show in turf	36
Floridian finds time for national affairs	42
Golf team faces 600 challengers	44
Sherwood Moore: a Florida link	46
Tom Burrows: getting the roots of the job	48

#### RESEARCH REPORT

Early birds get the worms	56
And the bent goes on	60
Research green on track	

#### ARCHITECTS, ETC.

Mr.	Lee's	a	good	old	Joe		6	1
-----	-------	---	------	-----	-----	--	---	---

#### SUPPLY SIDE

Aerators solve algae problem	70
Florida development report	
Supers get spot at World Hall of Fame	
Index to advertisers	80

#### **AFTERWORDS**

From our readers	32
Back to the Future: Mike Bailey	34
Reflections: Dan Jones	88

#### ON THE COVER

Orlando photographer Rummel Wagner caught, from left, Buck Buckner, Joe Ondo, Dave Oliver and Fred Klauk getting out of a Hunters Creek bunker under the watchful eye of FGCSA President Joel Jackson

#### Florida Golf Course Superintendents' Association

## Officers Joel Jackson, CGCS .......President

P.O. Box 1467, Windermere, FL 32786 • (407)876-4244
Ray Hansen
Thomas Benefield, CGCS Secy/Treasurer Beacon Woods Golf Club P.O. Box 5383, Hudson, FL 33562 • (813) 868-7673
Cecil Johnston, CGCSPast President Avila Golf & Country Club 410 Seely Rd., Lutz, FL 33549• (813)962-3018

#### **Directors**

Buck BucknerRidge
Orange Tree Golf Club • (407) 352-0330
Lou Conzelmann, CGCS Everglades Fiddlesticks • (813)768-2332
Frank Cook
Paul Crawford
Bill Jeffrey, CGCSSouth Florida Indian Creek Country Club • (305) 866-7224
Larry Livingston, CGCSSun Coast Gator Creek Golf Club • (813) 922-0833
Joe Ondo, CGCS Central Florida Winter Pines Golf Club • (407) 671-1651
Mike Perham, CGCS Treasure Coast The Moorings Club • (407) 231-4996
Eddie Snipes, CGCSNorth Florida Oak Bridge Club at Sawgrass • (904) 285-5552
61 66

#### Staff

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

#### The Florida Green

Dan Jones, CGCS	
Banyan Golf Club 9059 Ranch Rd., West Palm Beach, FL 33411 •	(407) 793-0069
Irene JonesAssist	ant Editor
(407) 793-2497	
Joel Jackson, CGCS Editor	Designate
Larry Kieffer Manag	ging Editor
Janetta KiefferC	opy Editor
Darcy MeekerResea	rch Editor
Mark Jarrell, CGCS Feat	ure Writer

NOTICE: All correspondence concerning this issue should be addressed to the Editor, P.O. Box 5958, Lake Worth, FL 33466. Opinions expressed by writers in bylined editorials are not necessarily those of this publication. Not copyrighted. Please credit the author and *The Florida Green*.

Starting with the issue of April 15, 1990, *The Florida Green* will be published quarterly on the 15th of January, April, July and October for the Florida Golf Course Superintendents Association by Janlark Communications, Inc. Closing date for advertising space reservation is 45 days prior to publication. All advertising and editorial matters should be addressed to Larry Kieffer at Janlark Communications.



P.O. Box 336, Auburndale, FL 33823 813-967-1385

# letter



P.O. Box 82409, Lincoln, Nebraska 68501-9971 • Phone: (402) 475-9581 • FAX: (402) 474-8522 • Telex: 484359

#### Dear Golf Course Superintendent:

We hold ourselves responsible for a large area aerator you may have recently purchased that, in all honesty, does not live up to the highest level of quality you deserve. We apologize for not having the new Cushman® GA60 Large Area Aerator available for the fall aeration season. We're sorry, because the GA60 quite simply offers greater value and performance than any other competitive large area aerator on the market today.

If you have not yet purchased a large area aerator, we encourage you to wait a few months.

Because if you wait, we won't feel badly...and neither will you.

You'll be able to purchase a Cushman Turf-Truckster  $^{\text{\tiny{TM}}}$  and a GA60 for about the same money that our competitor asks for their tractor-pulled reciprocating fairway aerator alone.\* The GA60 has its own power source for more consistent quality. And, it features the coring heads of the proven Ryan GA30, delivering higher quality holes for greens-caliber aeration.

The GA60's unique 5th wheel configuration also gives you less soil compaction, a zero turning radius while aerating, and quick attachment and detachment - no mechanical

Cushman GA60's have been undergoing rigorous field-testing for nearly a year now, and alterations or gear replacements are required. they'll be demonstrated in many parts of the country this fall. Be watching for a demonstration in your area.

I'm confident that once you see the new Cushman GA60, you'll agree that it was well-worth

the wait.

Sincerely,

Frank McDonald **Marketing Director** 

P.S. If you'd like more details on the Cushman GA60 Large Area Aerator, just call toll free 1-800-228-4444.

\*Based on August '89 price survey.

© Cushman Inc. 1989. All rights reserved. A Ransomes Company P.O. Box 82409, Lincoln, NE 68501

LD BUSINESS: I want to thank everyone for the cards, calls, and letters of support during my recent heart surgery and recuperation. Most of all, I want to publicly thank and praise my staff for the professional way they carried out their duties and responsibilities during my absence. I am very proud of them, and I am very fortunate to be working with such a fine group of people.

'Greatest Show on Earth' in Orlando marks end of an era provide good training and

In our industry, it is sometimes very difficult to assemble and retain a staff of dedicated, professional, and loyal employees. If a club wants to have a first-class, efficient operation, it must make the commitment to competitive wages and benefits.

Combine those factors with a management style that includes communication, consistency, and caring, and you will create a winning team.

**NEW BUSINESS:** "The Greatest Show on Earth" is coming our way, and it will be in Orlando Feb. 19-26. That's the 61st International Golf Course Conference and Show presented by the Golf Course Superintendents Association of America. There will be 38 seminars and educational sessions, and 337,000 square feet of exhibits showcasing the latest in golf course equipment and products. This show has grown to become a member of the top 100 trade shows in America, and only because of the recent expansion of the Orange County Convention Center is it able to come to Florida.

Because we are hosting the conference this year, Florida superintendents who join the GCSAA before the conference will have their registration fees waived. That's a saving of \$165 at the door.

Certainly all current GCSAA members who have been unable to travel to Phoenix, Houston or Anaheim the last three years should take advantage of this opportunity and attend this year. You can be sure that the rising number of certified superintendents will be on hand to earn continuing education credits to qualify for re-certification.

For those who are not members of either your local superintendent association or the GCSAA, now is the ideal time for you and your club to make a commitment to excellence by becoming a full partner in the golf industry. The education, information, and support you receive by being an active member is well worth the investment. And more importantly, your support is needed to help the golf industry build and maintain environmentally sound golf courses. As partners working together to support turf research, we can achieve that goal.

THIS ISSUE officially marks the retirement of Dan and Irene Jones as editor and assistant editor of The Florida Green. Words become very inadequate when you try to express the admiration and gratitude that over 600 superintendents in this association have for Dan and Irene. The dedication and hard work that they have invested in over 16 years of service to the FGCSA can never be repaid materially. But Dan and Irene, if you can measure the love and respect we have for you and what you have done for us, you will be wealthy for the rest of your lives. Thank you from the bottom of our hearts.

While Dan will shed the responsibility of producing the magazine, he will continue to contribute to The Florida Green as a writer and consultant.



Joel D. Jackson, CGCS

Hahn

# Powerful.Quiet.Precise. Twin Cylinder Powered MIIITI-PRO4

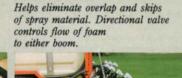


The Hahn Multi-Pro 418 has all the features needed to enhance and maintain quality turf.

This heavy duty vehicle sprays, fertilizes, top dresses, seeds, and hauls. The high flotation tires and four wheel design protect turf and reduce compaction, making it gentle enough to be used on delicate greens.

With a low center of gravity and wide stance.

PRO-CONTROL Calibrates and maintains an even rate on every acre to be sprayed regardless of vehicle speed or terrain.



FOAM MARKER

the Multi-Pro 418 hugs hillsides even under the heaviest loads. An abundance of power is provided by an 18HP Twin Cylinder Kohler engine with whisper quiet exhaust.

From a Precision Liquid Application System to an Accurate Pendulum Action Dry Applicator to a Rugged Cargo Transport Vehicle, this Multi-Pro 418 is built specifically for your turf

> SPREADER The pendulum action spreader with its conical steel hopper ensures accurate flow of all materials... fertilizer, seed, lime...even damp sand.



maintenance demands. Versatility, Dependability, and Performance. The Multi-Pro 418 from Hahn. the Leaders In Application Equipment.

TURF PRODUCTS DIVISION 1625 N. Garvin Street, Evansville, Indiana 47711-4596 Call Toll Free (800) 457-HAHN In Indiana (812) 428-2020 Telex: 27-8429 FAX (812) 428-2049

#### UTILITY

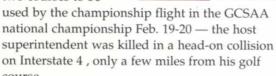
When transporting materials, the cargo bed with optional hydraulic dump will provide another valuable attachment.



#### TURF NEWS ROUNDUP

## GCSAA Tournament host killed in crash

On the day before the Florida GCSAA golf team was scheduled to conduct its first practice round over Hunters Creek GC in Orlando — one of two courses to be



John Jankiewicz, 42, died instantly when his car was struck head-on by a tractor-trailer shortly before noon on Dec. 1. The Florida Highway Patrol theorized that the driver of the truck fell asleep and crossed the median. Jankiewicz was on his way to Grand Cypress Resort, where he and Hunters Creek Head Professional Fred Fuhrman were scheduled to play a round of golf with two friends. Traveling in his own car a few seconds ahead of Jankiewicz, Fuhrman was unaware of the accident until late that afternoon.

"John was a bright example of a true professional who took immense pride in his work," said Joel Jackson, FGCSA President.

"He was very dedicated and loyal."

Known for his team leadership, Jankiewicz kept his mechanic and his assistant superintendent, Craig Shelton, with him for more than 12 years. His spray and irrigation technicians had been with him for more than five years.

A native of Utica, N.Y. Jankiewicz was graduated from the University of Minnesota with degrees in business administration and agronomy. He began his career at The Bay Hill Club of Orlando. He was involved with the construction of the Deer Run GC in Casselberry and the Interlachen CC in Winter Park. Before moving to Hunters Creek to supervise its construction in 1984, Jankiewicz had been head superintendent at Errol Estate GC in Apopka for nine years.

In addition to his love for golf, he enjoyed fishing, diving and photography.

He was a member of the First Baptist Church of Orlando, the GCSAA and the Central Florida chapter of the FGCSA.

He is survived by his wife, June; his parents; and two brothers.

# The Scandinavian Connection

In a sense, it's only fitting.

Of all the areas in the world, golf is growing fastest in Florida and in Scandinavia, the countries that form the northern coasts of the Baltic and North Seas — Norway, Sweden, Finland and Denmark.

It shouldn't be surprising, therefore, that an aspiring golf course superintendent from Finland, which has 35 golf courses in operation and 20 more under development, should choose to take his training at Lake City Community College's School of Golf Course Operations.

And this past summer, the Jacobsen Division of Textron, Inc., brought 90 superintendents from the four countries to Florida to observe golf course maintenance practices after



LCCC/PIERSOL

Layout of Vierumaki Golf Course at the Finnish Sports Institute, where two LCCC students — one a Finnish exchange student performed their summer OJT. getting tours of the company's plants in Racine, Wis., and Charlotte, N.C.

That the two exchanges were entirely unrelated only underscores the growing importance of Florida as a world leader in the golf industry.

This past summer, Jarkko Lahdensuo, now a junior in LCCC's three-year program, returned to his homeland for the first of his two required summer OJT programs. And, with the Finnish Sports Institute and the

Finnish national airline — Finnair — picking up the expenses, he brought classmate Bruce Chestnutt with him.

Furthermore, the two national institutions brought John Piersol, chairman of the LCCC golf course operations program, into the country for 12 days to check on the turf management programs at their golf

90 superintendents from Denmark, Finland, Norway and Sweden observed maintenance techniques at Doral CC in Mlami and Grand Cypress Resort in Orlando. The superintendents also toured the Jacobsen plants in Racine, Wis., and Charlotte, N.C.



fields.

While there, he conducted a turf management seminar and field day and, of course, checked up on his students.

"This was an outstanding experience for me," said Piersol. "The people have really taken to the game, which they view as a family activity that provides enjoyable recreation and exercise.

"No one rides golf carts. In fact, they don't even know about carts. The Fins have a great attitude toward the game that I hope they maintain."

Another Finnish attitude Piersol admires is their "green card" system.

"No one can play golf until he has a green card," Piersol reports.

Golfers obtain their green cards by passing written and practical tests on the rules of golf, etiquette and basic skills.

"Since golf is growing so rapidly, many pros spend much of their time giving 'green card' lessons," he says. "It's a great system that assures that everyone has some basic knowledge before getting on to the course."

Agronomically, the Finns have a lot of catching up to do, Piersol says. Greens construction is a particularly vexing problem.

"The concept of the USGA green was just presented to the Finnish golf

# Control boxes for turf irrigation systems

## **AMETEK**

PLYMOUTH PRODUCTS DIVISION

REPRESENTED IN FLORIDA BY:

#### RICHARD DUNN R&D ASSOCIATES

502 N.W. 7th Street Delray Beach, FL 33444 (305) 278-5271



18½" x 13½"

12"



Boxes stocked in Tampa for immediate delivery throughout Florida.

rectangular

	Country	Population <sup>1</sup>	Area <sup>1</sup>	Golfers <sup>2</sup>	Courses
te,	Denmark	5,124,000	16,629	29,000	60
,er	Finland	4,788,000	130,120	8,900	18
1	Norway	4,092,000	125,053	6,500	9
1	Sweden	8,320,000	173,775	123,000	156
A)	Scandinavia	22,324,000	445,467	167,400	243
7	Florida	12,023,000³	58,560	1,172,0004	808

industry by Jarkko this past summer. He showed the new USGA greens construction tape to a group of Finnish greenkeepers.

"Jarkko's American training at LCCC makes him a highly respected individual in Finland."

Although many native bentgrasses grow wild throughout Scandinavia, the common grasses for Finnish tees and fairways has been bluegrass and fescue. Greens generally are fescue.

The LCCC students introduced the Finns to Penncross, Penneagle and Penway bentgrasses this past summer.

"There is no formal turf management education available in Finland," Piersol says. "That's why they came to LCCC for help."

Coming the other direction were 90 superintendents who were the guests of ORAG Inter AG, the European distributor of Jacobsen equipment.

They spent two weeks in the U.S. for a "learning experience with a little fun mixed in," according to Neils-Erik Brems, ORAG's representative in Denmark.

In addition to their plant tours and visits to Doral CC in Miami and Grand Cypress Resort in Orlando, the supers toured the Minnesota's Department of Horticul-

ture.



Jarkko Lahdensuo examines a soil core University of sample while explaining the concept of USGA green specifications.

The purpose of this trip is to educate the superintendents on

> what's being done here in the United States," Brems said. "They can then go back and educate their boards of directors and greens committees on what can be done to improve their courses."

LCCC student Bruce Chestnutt demonstrates the use of a turf aerator at an equipment field day.

LCCC/PIERSOI





#### **Horticultural Society** honors tree author

David Wedge, a horticultural consultant whose articles on trees appear frequently in The Florida Green, was honored at the Florida State Horticultural Society's annual meeting in Tampa last fall for his paper describing a West Palm Beach program to re-introduce flowering trees.

He received a silver medal and \$200 honorarium for the best paper in the Garden and Landscape section of Vol. 100, FSHS Proceedings.

#### Ross course in Orlando undergoes renovation

The Country Club of Orlando will celebrate its 80th birthday this summer by getting a facelift.

The venerable Donald Ross layout, which was begun in 1910 and opened in 1912, will be completely renovated under the direction of architect Brian Silva, the noted Ross scholar. Silva's business partner is Geoff Cornish, author of the seminal history of golf course history in the United States.

Although Ross himself never visited the Orlando site, Silva said he is "very comfortable" that Ross did the layout and that the course was one of several hundred built by one of his principal construction superintendents, according to CCO Superintendent Cary Lewis.

The greens will be rebuilt to modern