

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

A UNITED PUBLICATION
VOLUME 10, NUMBER 1
JANUARY 1998 • \$5.50

INSIDE

Spring Prep

Supers share spring-prep problems, solutions and tips for the coming season. Gear up now 45

Ohio Turfgrass Wrap-Up

Mark Leslie offers a detailed analysis of the golf-turf industry's second biggest trade show 19,33-37



JACOBSON SETS SIGHTS ON SUCCESS

A protégé of Wadsworth, Nicklaus and Nugent, Rick Jacobson is stamping his own trademark on the world of course design. See Q&A, page 47.

COURSE MAINTENANCE

Computerized mapping ushers in new future 19
Rick Kerins raises environmental bar 24
On The Green: Sprinkle while they play 32

COURSE DEVELOPMENT

Palmer getting Rossi Award 47
Bickler's Borrego Springs is a tenacious 18 48
Six men and a 'baby' 52

COURSE MANAGEMENT

Environmental Golf takes new direction 61
USGC, Golf Ventures complete merger 62
After all, it's about diplomacy 64

SUPPLIER BUSINESS

Toro launches search for the perfect green 67
Club Car expands in Western Canada 68
Pursell adds new formulator to growing list 70

69TH GCSAA INTERNATIONAL GOLF COURSE
CONFERENCE AND SHOW PREVIEW
Meet the board candidates, pages 40-43

Accessible, sustainable golf gets its due



The newly renovated 6th hole at East Lake Golf Club will play host to one of Atlanta's most ambitious junior golf initiatives to date.

• The First Tee takes giant step forward

By M. LEVANS

ST. AUGUSTINE, Fla. — The First Tee, launched in November in a national publicity wave headlined by George Bush and Earl Woods, has managed to pull together the golf industry's heaviest hitters in what is being called the most significant concerted initiative to create acces-

sible golf facilities for minority and junior golfers.

According to The World Golf Foundation, The First Tee's founding organization, the initial focus will be on developing financial support to acquire locations for the facilities. To supplement these acquisitions, The First Tee plans

Continued on page 59

• East Lake: Atlanta's inner-city gem

By PETER BLAIS

ATLANTA — It's too early to say exactly what the effects will be of the \$100 million East Lake Meadows project here. But the private/public partnership that resulted in the renovation of the historic East Lake Golf Club, construction of a new executive length golf course and

building of a 500-unit residential community looks like a boon for the Georgia capital's inner city.

The initial focus was the famous East Lake Golf Club, where golfing legend Bobby Jones learned to play the game. The club had deteriorated badly since the late 1960s when

Continued on page 60

Reaction to ADA gauged

By BOB SPIWAK

The Americans with Disabilities Act (ADA) appears to have consequences in the world of golf which go well beyond disabled golfers. Courses may be forced to change facilities as well as policies, such as the "Cart Path Rule."

To get a superintendent's take on ADA, *Golf Course News* spoke with Jerry Coldiron, superintendent of Lassing Pointe Golf Club in Boone County, Ky.

Continued on page 39



TALKING STICK SPEAKS VOLUMES

Coore & Crenshaw's Talking Stick, two 18-hole courses built on Salt River-Pima-Maricopa Indian Community land, promises to bring a little Scotland to Scottsdale, Ariz. See story page 54.

MAINTENANCE

Genetic engineering could drive seed costs up

By MARK LESLIE

COLUMBUS, Ohio — Remarkable advances in genetic engineering of turfgrass will bring new cultivars to the marketplace more quickly. But seed costs could go up markedly, particularly because different companies own patents on the various techniques and genes that drive the discoveries.

Future release of new turfgrass varieties will be punctuated by negotiations "to see who gets what out in the marketplace," said Dr. Virgil Meier, a plant breeder responsible for turfgrass development at O.M. Scott.

Meier explained that to
Continued on page 34

You've Just Spent \$40,000 to Build a Green

Now invest \$90 in the right bentgrass seed.

At \$4 to \$7+ per square foot, a 6,000 foot green can cost \$24 to \$50 thousand. No matter how you figure it; design, grading, tiling, gravel, sand and manpower, building a green is the most important part of any course. It would be foolhardy to plant an unproven bentgrass on a whim, or because it's a few cents a pound cheaper. Of course you're going to be cautious when your reputation's on the line. You're going to insist on the stellar new Penn A and G series bents from Tee-2-Green®, developed by Dr. Joe Duich, then tested—and selected—by some of the best superintendents on some of the finest courses in the world.

Or, you won't go wrong with time-proven Penncross, PennLinks or PennTrio blend. With hundreds of thousands of pounds sold around the world since its introduction in 1955, Penncross remains the best-selling bentgrass ever.

Oregon's best and most experienced bentgrass seed producers grow these exceptional creeping bents to the highest certification standards; free of any objectionable weeds.

It's good economy to seed with the new Penn A and G bentgrasses from Tee-2-Green®—*the icing on the cake.*

Better built greens deserve the better bentgrasses. Insist on the genuine 'Penn Pals'TM: Penncross, PennLinks, PennTrio, Penn A-1, Penn A-2, Penn A-4, Penn G-1, Penn G-2, Penn G-6; plus Penneagle, Pennway and Seaside II for fairways.

TEE-2-GREEN®

PO Box 250
Hubbard, OR 97032 USA
800-547-0255
503-651-2130
FAX 503-651-2351
bentinfo@tee-2-green.com

BRIEFS

TUCSON, Ariz. — The newly-renovated Tucson Country Club has reopened after a six-month facelift. Phoenix-based course architect David Druzisky and architect Keith Foster collaborated on a project that included redesigning and rebuilding all tees plus fairways and greenside bunkers, improving the irrigation system and stripping and reseeding greens. The course was built in 1949.

...

ORLANDO, Fla. — Universal Studios Florida has scaled back its plans to now include a nine-hole golf course as part of a new development at the theme park. Universal had planned a 300-room time-share complex along with an 18-hole golf course at the southwest corner of the park. Now Universal wants to change its plans and build a 600-room hotel and nine-hole layout instead.

...

KANSAS CITY, Mo. — Add Kansas City to the fast-growing alternative-spikes movement. The city's parks department has adopted an alternative-spikes-only policy for all city-run courses as of Jan. 2.

NGF pinpoints hot spots for course development

JUPITER, Fla. — The National Golf Foundation (NGF) has released a new trend report for developers, consultants and others who are interested in knowing just where most of the golf course development is occurring in the U.S.

Entitled *Hot Spots for U.S. Golf Course Construction Activity*, it tabulates information derived from the NGF's project-

tracking database which profiles golf courses that are under construction, in planning or have recently opened.

The 109-page report provides a detailed look at where golf course development has been taking place over the past five years and where it will be occurring over the next five.

The locations of this activity are pro-

vided down to the county level and presented in terms of the facility type [e.g. daily fee, municipal, private, resort, real-estate related] and length [e.g. regulation, executive, par-3].

In all, the report pinpoints the location of the 54,000 golf holes which have either been constructed between 1992 and June

Continued on page 4

Most active counties in U.S. golf development

Rank	County	State	Holes opened Jan 92-Jun 97	Holes in planning*	Holes under construction*	Total
1	Maricopa	Arizona	585	378	144	1,107
2	Riverside	California	243	288	144	675
3	Clark	Nevada	234	261	108	603
4	Collier	Florida	234	135	135	504
5	Horry	South Carolina	261	72	54	387
6 (tied)	Los Angeles	California	36	243	81	360
6 (tied)	Oakland	Michigan	189	63	108	360
8	Orange	California	90	171	63	324
9 (tied)	Pima	Arizona	81	144	81	306
9 (tied)	San Diego	California	63	144	99	306
11 (tied)	Harris	Texas	171	63	54	288
11 (tied)	Suffolk	New York	135	135	18	288

* As of June '97

Source: National Golf Foundation

SAY HASTA LA VISTA TO PUMP STATION PARANOIA.

Late night service calls? Exploding sprinklers? Stressful days and sleepless nights? End those pump station tantrums and foul-ups. Say *ihola!* to FLOWTRONEX PSI at booth 2817 at the GCSAA show. Once you see how our pump stations can eliminate your fears and anxieties, you'll be happy you came. And, if you register and win our no-stress, no-worry vacation for two to Cancun, you'll be even happier when you go!

Come see us at
**The
GCSAA Show**
Booth 2817,
February 2nd-8th.

For more information, contact FLOWTRONEX PSI at (214) 357-1320, 10717 Harry Hines Blvd., Dallas, TX 75220, U.S.A.

FLOWTRONEX PSI
Pumping Systems



Official Contest Rules: No purchase necessary. Approximate value of trip: \$1,500. Must be 18 years of age or older as of 1/1/98. Entry forms available at the FLOWTRONEX PSI booth at the GCSAA Show. You can also enter by mailing your name, address and telephone number to *Hasta La Vista Sweepstakes*, c/o FLOWTRONEX PSI, 10717 Harry Hines Blvd., Dallas, TX 75220, U.S.A. by 1/31/98. Drawing to be held on or before 2/15/98. Improper, incomplete, mutilated or illegible entries will be disqualified. No photocopied entries will be accepted. Odds of winning depends on the number of eligible entries received. FLOWTRONEX PSI reserves the right to determine dates on which trip can be taken. All travel must originate within the continental U.S. Void where prohibited by law.

NGF library Internet accessible

JUPITER, Fla. — For more than four years, the National Golf Foundation (NGF) has been building and indexing its golf business library. Exceeding 27,000 different literature items and growing by as many as 6,000 new items each year, the NGF library searching system can now be accessed from the NGF's Web site at www.ngf.org.

And for a limited time, the NGF Library can be searched for free by anyone who has a NGF library password and access to the World Wide Web. After the free trial period is over, subscriptions will be sold on a quarterly or annual basis with members of the

National Golf Foundation receiving substantial discounted rates.

Free passwords to access the NGF Library can be requested through the NGF's web site at www.ngf.org, on the "Information Services" page.

"With an NGF Library password, visitors to the NGF web site can now conduct keyword

searches of the 27,000 items that are currently housed in the Foundation's collection of golf business literature," said Charles Mayberry, the NGF's director of information services. "In addition to research studies, government publications and newsletters, the collection also contains thousands of articles that have appeared over the past five years in the golf industry's trade and

professional magazines, journals and many of the nation's newspapers."

The NGF's library collection offers information on over 1,500 different industry-related topics ranging from advertising and promotion to measurement systems and zoning. Library searches can be conducted by subject, title, author, publisher, date or any combination of the

five fields. The search service will provide the user with an abstract of each item in the library and if the user wants a complete text of any item located, an online order form to receive a copy resides on the web site.

"In talking to those who have already taken advantage of the library," says Mayberry, "we're finding that it's being put to many different uses."

Hot spots

Continued from page 3

1997, or are projected to come on line sometime during the next five years. This hole count is equivalent to 3,000 18-hole courses.

The report measures development activity in terms of number of golf holes rather than number of golf courses. Using number of golf holes as a yardstick is considered the most accurate way of measuring the golf supply for a given geographical area.

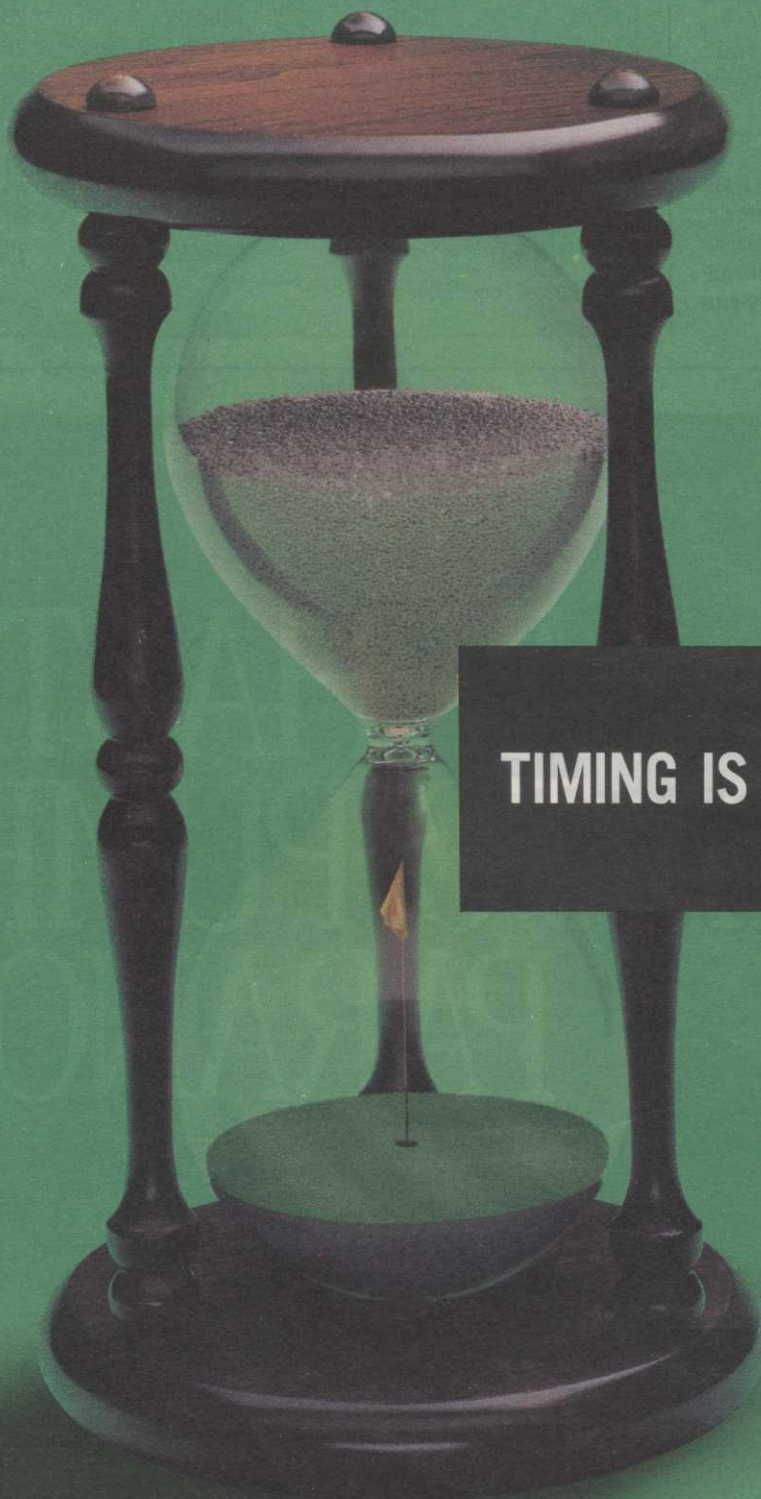
It also identifies how much of the development activity is related to brand new facilities and how much instead constitutes expansions to existing golf facilities.

Periodicals postage paid at Yarmouth, Maine, and additional mailing office. *Golf Course News* (ISSN 1054-0644) is published monthly by United Publications, Inc., 106 Lafayette St., P.O. Box 997, Yarmouth, ME 04096. Phone number is 207-846-0600.

The publisher assumes no responsibility for unsolicited material or prices quoted in the newspaper. Contributors are responsible for proper release of proprietary classified information. Copyright 1998 by United Publications Inc. All rights reserved. Reproduction, in whole and in part, without the written permission from the publisher is expressly prohibited. Photocopies of *Golf Course News* are available through University Microfilms International, Serials Acquisitions Dept., 300 N. Zeeb Road, Ann Arbor, MI 48106, 800-732-0616.

Reprints and permission to reprint may be obtained from Managing Editor of *Golf Course News*. Back issues, when available, cost \$6 each within the past 12 months, \$12 each prior to the past 12 months. Back issue orders must be paid in advance either by check or charged to American Express, Visa or MasterCard.

Golf Course News is distributed in the U.S. without charge to qualified personnel of golf course facilities and to golf course builders, developers and architects. Subscriptions to Canadian golf facilities cost \$45 annually; other paid subscriptions to the U.S. and Canada cost \$55. All foreign subscriptions cost \$125 annually to cover air delivery. All payments must be made in U.S. funds drawn on a U.S. bank. **For subscriber services, please call 215-788-7112.** Send address changes to *Golf Course News*, P.O. Box 3047, Langhorne, Pa. 19047-3047.



TIMING IS EVERYTHING.

CFOs prefer golf to other pastimes

MENLO PARK, Calif. — When they're not in the office, the nation's financial executives prefer to spend their time on the fairways, according to results from a nationwide survey.

Twenty-one percent of the chief financial officers (CFOs) polled said their favorite leisure activity is golf. The game is even

more popular with CFOs of large corporations (500+ employees), where 40 percent cited it as their favorite pastime.

The survey was developed by Accountemps, a major temporary staffing service for accounting, finance and bookkeeping professionals. It was conducted by an independent research firm

and includes responses from 1,400 CFOs from a stratified random sample of companies with more than 20 employees.

Respondents were asked: "Which one of the following best describes your favorite leisure time activity, other than being with friends or family?"

Their responses were: golf (21 percent); reading (14); team sports (10) working out (9); mov-

ies or theater (9); adventure sports (9); music (5); surfing the Internet (4); tennis (3); fishing/hunting (2); other (12); don't know/no answer (20).

"While golf is a social sport, many financial executives believe it's an excellent forum for business networking with colleagues and clients without the distractions of the office," said Max Messmer, chairman of Accountemps.

Scotts **NEW CONTEC™ CONTROLLED RELEASE FERTILIZER**

is right on time with **MORE** efficient nitrogen availability,

MORE consistent particle sizing, **MORE** even product distribution

and **MORE** predictable growth pattern for consistent

overall performance. All the while Scotts'



INNOVATIVE TECHNOLOGY, unmatched

tech rep assistance program, a full product line and

competitive pricing means **YOU GET MORE FOR YOUR MONEY,**

ALL OVER YOUR COURSE, ALL THE TIME.



Contec™ Controlled Release Fertilizer

Call 1-800-543-0006. Or visit our website at www.scottscompany.com for more information.

Mashantuckets purchase 2 R.I. golf courses

RICHMOND, R.I. — The Mashantucket Pequot Tribal Nation which runs the Foxwoods Resort Casino in Connecticut has purchased two nearby golf courses in neighboring Rhode Island — the Boulder Hills Golf & Country Club in Richmond and the Lindbrook Golf Course in Hopkinton.

The tribe entered into a joint venture with the Providence-based Bernard Investment Group. The purchase is seen as a key step for the tribe, which has planned to build its own golf course in recent years but has yet to accomplish that. Tribal leaders have said they still intend to develop their own course on reservation land in the future.

The Boulder Hills course will be reamed the Foxwoods Golf & Country Club at Boulder Hills while Lindbrook will be called the Foxwoods Executive Golf Club in Lindbrook. Each course will remain open to the public.

Weather delays Md. openings

CUMBERLAND, Md. — Rocky Gap's rugged nature will delay the opening of the Jack Nicklaus signature, 18-hole course for several months next year, but the related lodge and golf resort is targeted to open in April 1998.

Challenges caused by either too much or too little rain through the fall have affected the grass-growing schedule. Rocky Gap's 18-hole course is now expected to open in two stages next year, with the first nine opening in mid-summer and the other nine later in the fall, according to Hans Meyer, executive director of the Maryland Economic Development Co. (MEDCO).

The 6,934-yard course and six-story lodge are being built on 260 acres of the 3,400-acre Rocky Gap State Park managed by the Department of Natural Resources. MEDCO is the construction manager of the \$53.1 million project, which is being managed by Buena Vista Hospitality Group.

Golfer sues N.J. facility for eye injuries

MAHWAH, N.J. — A woman golfer has filed a lawsuit against the Darlington County Golf Course, Mahwah Township and Bergen County claiming she sustained serious eye injuries from bacteria-infested water used to irrigate the golf course.

Janice Lipack, of Franklin Lakes, N.J., said she was sprayed by water from the sprinkler system while playing golf at Darlington County Golf Course May 7. The complaint states that the sprinkler was drawing water from a nearby pond that contained the acanthamoeba organism. Lipack reportedly suffered an infection in her eye that led to the loss of a cornea.

The lawsuit seeks unspecified damages. It also asked that a judge issue a temporary restraining order prohibiting the defendants from tampering with the water before it can be tested further.

Bergen County Parks Director Wolfgang Albrecht, who was named as a defendant in the lawsuit, said the acanthamoeba is a

microorganism indigenous to the area. He said the golf course has ceased random watering of the course during the day when golfers are on the course.

Albrecht said it is unclear whether Lipack suffered her injuries as a result of her trip to the Darlington County Golf Course.

AGC to operate New York links

MONROE, N.Y. — American Golf Corp. has been awarded the contract to manage the new Mansion Ridge Golf Club, an 18-hole daily-fee course designed by Jack Nicklaus which is scheduled to open for play by fall 1998.

Located one hour northwest of Manhattan in Monroe, the par-72, 6,883-yard championship layout is being carved from mature forests and rolling countryside at a historically-significant 220-acre country manor.

A stone barn on the property is being converted into a picturesque 12,250-square-foot clubhouse, with two meeting rooms for corporate functions and a full service bar and grill room seating more than 100 guests. Other amenities include a two-tiered driving range, elegant locker rooms and a pro shop.

WESTCHESTER COUNTY BUYS GOLF COURSE LAND

NEW CASTLE, N.Y. — The possibility of a sixth Westchester County public golf course increased with the county's recent purchase of 170 acres of the former Hudson Hills Golf Club west of the Taconic State Parkway. The county bought the land from IBM Corp. for a price believed to be between \$3.6 and \$4.6 million. Plans have been floated for more than a year now to build an 18-hole public course on the site to join the five other county courses: Dunwoodie, Maplewood, Mohansic, Saxon Woods and Sprain Lake.

Palmer may design Pennsylvania layout

LAURELTON, Pa. — A soon-to-be-closed state residential facility for the mentally and physically handicapped in Union County may be transformed into a world-class, 18-hole golf development with a layout designed by Arnold Palmer Course Design.

A group of investors has commissioned Palmer's group to do a feasibility study and develop preliminary plans and figures for a \$4

to \$6 million facility at the Laurelton Center that would include conference facilities. The preliminary plan is to develop a course and amenities capable of hosting major professional golf tournaments.

The Laurelton Center, a 245-acre site with a number of existing buildings, will close by June 1998. The state is seeking proposals to sell the property.

WE'VE PUMPED UP THE PRESSURE ON PESTS.

THE JOHN DEERE RZI 700.



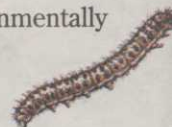
Effective. Efficient. Environmentally friendly.

You pick the description. The John Deere RZI 700 fits them all. Now, you have an alternative to traditional methods. You can inject liquids directly to the root zone, eliminating drift and minimizing surface toxicity.

The RZI 700 delivers treatments up to six inches deep through 16 single- or multi-orifice nozzles. The 5,000-psi system ensures injections penetrate even hard-packed soil. And, at 3 mph working speed and

3 x 3-inch spacing the RZI 700 covers a lot of ground at 64,800 square feet per hour. It all adds up to bad news for pests like white grubs and mole crickets.

In fact, tests show that a high percentage of grubs are killed from the force of injecting water alone. Hard to get more environmentally friendly than that. For the name of your nearest distributor, or free literature, call 800-537-8233. Or write John Deere, P.O. Box 12217, RTP, NC 27709-9601. www.deere.com



Ross restoration also helps Fla. water supply

JACKSONVILLE, Fla. — The restoration of the 1920s-era Timuquana Country Club by golf course architect Bobby Weed has done more than just fix up a classic Donald Ross design.

The tree-lined course, which had suffered from tree overgrowth and drainage problems, is now using treated water to

irrigate. In doing so, the club is helping reduce the amount of water taken from the Florida aquifer and assisting the U.S. Navy in its goal of releasing less treated water into the St. Johns River. The course is located on the banks of the St. Johns River south of downtown Jacksonville.

The two-phase restoration

project was created through some unique circumstances. The club made the decision to renovate because of a mandate by the Florida State Water Management Agency, which forced a change from well water to recycled water for irrigating the golf course. Because of water issues, Timuquana Country Club was faced with vacating the

entire irrigation system.

"Since the golf course was going to be out of play for a period of time anyway, the membership voted to restore the layout and repair the drainage problems the club had lived with for years," said Weed. "Essentially, we kept the routing intact. We removed approximately 800 trees that had overgrown the fairways, changing the original Ross strategy. We

kept the old growth oaks that are characteristic of the area, but removed many of the new pines. It's not the first time a Ross course has been restored, but it is probably the first time a Ross course has been restored in conjunction with a branch of the U.S. Armed Services. It was a win-win situation for both parties, particularly from an environmental stewardship standpoint."

New Tampa club recruits exclusive membership

TAMPA, Fla. — The Tampa Bay area's newest golf course is also one of its most exclusive.

The Old Memorial Golf Club, designed by golf course architect Steve Smyers, will limit its membership to 400 with only 155 local memberships. The club, which was the vision of the founders of the Outback Steakhouse chain, is aiming to become an ultra-exclusive golfer's haven with a national and international membership in the vein of Pine Valley or Augusta.

Old Memorial will offer its members and guests four suites on the second floor of its 25,000-square-foot clubhouse and two private 5,000-square-foot cottages on the grounds with eight sleeping rooms in each.

The golf course itself will offer three different styles within a round: open, links-style holes; tighter, wooded holes; and holes set around a lake and wetlands area. No two consecutive holes play in the same direction and Smyers has found room for 120 bunkers.

"I think the thing we tried to accomplish was to develop a golf course that not only looks different, but played different," Smyers told *The Tampa Tribune*. "We wanted to put the old traditional links style of play into the golf course. To develop a course that would allow you to negotiate your way around. We didn't require forced shots over water. We didn't require a high fade or a little hook. We allowed the golfer to use his imagination and give him several options as to how he wants to play the hole."

IGM TO OPERATE NAPLES, FLA. GOLF FACILITY

NAPLES, Fla. — International Golf Management (IGM) of Lakeland has been selected to provide golf course maintenance duties for The Heritage Greens Golf Club when it opens this month. IGM will oversee the course's grow-in phase and all maintenance for three years. Heritage Greens, designed by golf course architect Gordon Lewis, is a public, 18-hole course.

The John Deere RZ1 700 features a high-pressure, 75-gallon system that injects liquids directly to the root zone of the soil.

Official Golf Course Equipment Supplier

PGA TOUR

JOHN DEERE

NOTHING RUNS LIKE A DEERE®

Michigan golfers spend almost \$1 billion annually

LANSING, Mich. — Golfers spend a minimum of \$941 million in Michigan annually, according to a new economic impact study commissioned by Travel Michigan.

The study, conducted by professors at Eastern Michigan University, is the first economic impact study of golfers on the

Michigan economy.

"Michigan leads the nation with more than 750 public golf courses and we have led the nation in the number of new courses coming on line," said Richard Czuba, Michigan's director of tourism. "For the first time we can estimate the economic impact of golf on

Michigan's economy. At nearly \$1 billion, the impact is staggering."

According to the study, golfers spent \$586.10 per trip, at both the golf course and in the community, on trips that averaged 2.6 nights away from home. Golfers spent at least \$506.6 million at Michigan golf courses and re-

sorts, and poured a minimum of \$434.4 million into Michigan's communities.

The study measured only the expenditures of golfers. Real estate sales, construction jobs, and golf course employment were not included as part of the economic impact study.

"Tourism is the state's second largest industry, and golf is emerging as a major economic

player for the state," said Czuba. "Not only do golf courses provide great enjoyment, they highlight Michigan's great outdoors while supporting the thousands of small tourism businesses across the state, bringing more jobs to all corners of Michigan."

Beyond economic figures, the study provided an interesting profile into the Michigan golfer, including a golf population younger than the national average of 40 years old and 52 percent earning an annual income in excess of \$75,000.

The Critics All Agree...

All they wanted was an irrigation system for their golf course.
What they got was a whole lot more.

"Our Legacy distributor's been *absolutely outstanding!*"

Rex Worrell, Owner
Hidden Oaks Golf Course
(Granbury, TX)

"The support they've given has been *tremendous!*"

Jon Jennings, CGCS
Golf Course Superintendent
The Patterson Club
(Fairfield, CT)

"I would have paid more, but actually *paid less!*"

Daniel Garner, Owner
The Grizzly Course at Gold Mountain
(Graeagle, CA)

"Legacy's customer service is *terrific!*"

Michael L. Dingman, VP & Director of Golf
Environmental Golf & Glen Annie Golf Club
(Santa Barbara, CA)

"The G90's (heads) are *just great!*"

Wade Vecchio, Superintendent
Cotton Ranch Club
(Gypsum, CO)

"I *absolutely love* the Genesis Central!"

Chris Smith CGCS, Superintendent
Bittersweet Golf Club
(Gurnee, IL)

"Legacy's service, responsiveness and product quality has all been good. Their *technical support* has been *superior!*"

Jeff Whitfield, Director of Golf/General Manager
Persimmon Woods Golf Club
(Weldon Spring, MO)

MICHIGAN GOLFERS ARE:

86% MALE

14% FEMALE

80.2% MARRIED

26.8% WERE WITH THEIR SPOUSE
ON THEIR GOLF OUTING

60.0% 35-54 YEARS OF AGE

23.0% 35 YEARS OF AGE OR
YOUNGER

30.0% EARN IN EXCESS OF
\$100,000

52.0% EARN IN EXCESS OF
\$75,000

Golfers travel an average of 125 miles from home 2.60 nights are spent away from home on each trip

"We commissioned this study to give us direction in furthering our golf marketing efforts," said Czuba. "What we found is that by bringing more golfers to Michigan, we can have a substantial economic impact on communities across Michigan resulting in more tourism jobs."

Detroit track headed for redo

DETROIT — The 18-hole Shady Hollow Golf Course looks headed for a redesign as part of a \$250 million, 700-acre retail, business and housing project north of Detroit Metro Airport.

The proposed Metro World Centre, which would be one of Detroit's largest developments, would include a 450,000-square-foot discount mall, five technology parks, corporate park, office campus, retail strip center and single-family and rental housing. Shady Hollow falls within the proposed site plan.

Metro World developer Burt Farbman has said that changes to the golf course are very likely and that it may be reduced to a nine-hole layout. He said a study has shown that 80 percent of the rounds now played on the course are nine-hole rounds.

GOLF COURSE NEWS

To find out more, call us at 1-800-248-6561
or visit our website at www.legacygolf.com.

LEGACY
GOLF IRRIGATION



My fairways never looked better or healthier, and my fungicide budget went down, too.

*- Bruce Burchfield
Fox Run Golf Club
St. Louis, Missouri*



Our turf is good, we're not sodding, and we're not spending huge amounts of man hours to babysit greens through the stress period.

*- Wayne Mills
Valencia Country Club
Valencia, California*



**Now You Can Use Less Fungicide Per Application,
Cut Your Costs, And Get Greener, Healthier Grass, Too.
Just Turn The Page To Find Out How.**

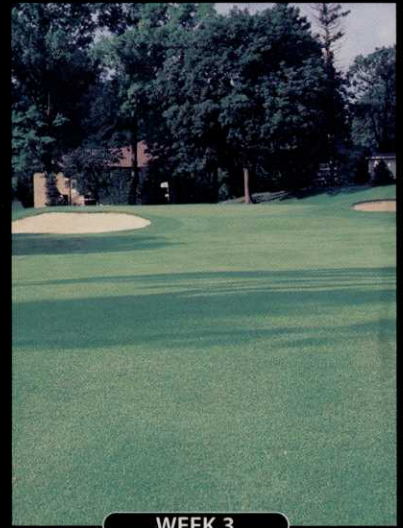




WEEK 1



WEEK 2



WEEK 3



WEEK 7



WEEK 8



WEEK 9

Switch To A Reduced Rate* Daconil U For A Great Looking Course V



golf courses around the country. Now, more and more superintendents are discovering that Daconil Ultrex fungicide, with its exclusive Super

Thanks to their unmatched sticking and staying power, Daconil® fungicides have long demonstrated superior broad spectrum disease control at

Weather Stik™ formulation, sticks and stays so well, you can use it at much lower rates* on a regular 7 to 10 day, preventative schedule for even better results.

Why a preventative schedule? Because disease can already be at work, doing damage to your turf well before visible symptoms appear. Even if you react at the first signs of disease, you could be reacting too late, and your grass might never fully recover. But a preventative



WEEK 4



WEEK 5



WEEK 6



WEEK 10



WEEK 11



WEEK 12

Ultrax[®] Short Interval Spray Schedule Week After Week After Week.

program stops disease before it can start, and that's one reason this approach makes so much sense.

You also put down less fungicide at any one time, which club members will love. You can eliminate systemics to cut total fungicide use and save money. And above all, you get great looking grass. In fact, we guarantee you'll be happy with the results, or we'll give you enough Daconil Ultrax to respray your course using your old program.†

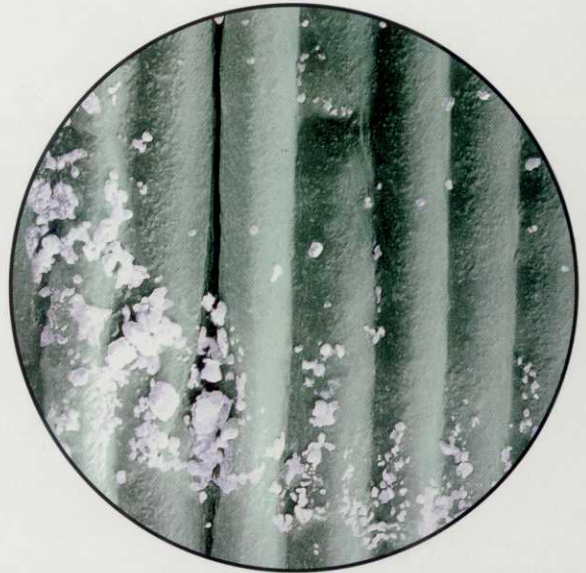
Just ask your distributor for all the details. And if you're still not convinced, ask to take the Daconil Challenge, and get enough free product to try this program on a green, tee, or fairway for an entire season. Daconil Ultrax reduced rate spraying. It could put you on a better course than ever before.





DACONIL ULTREX

after a 1/2" rain stress (SEM - 500X)^{††}



GENERIC FUNGICIDE

after a 1/2" rain stress (SEM - 550X)^{††}

See For Yourself How The Stick And Stay Power Of Super Weather Stik Makes Reduced Rate Spraying Possible.

Scanning electron microscopy of treated plant samples lets you see for yourself just how much better the Super Weather Stik formulation of Daconil Ultrex sticks and stays compared to the generic competition. And it's that stick and stay difference that makes Daconil Ultrex reduced rate spraying possible. So if you're tempted to try a similar program with some generic, just remember that the very thing that makes these reduced rates effective is the very thing generics lack — the sticking and staying power of Super Weather Stik.

Of course, with Daconil Ultrex, you also get exceptional

handling, superior mixing, and easy packaging disposal with no containers to triple rinse. And remember, too, there's never been a documented case of disease resistance to a Daconil brand fungicide in over 25 years, which means you can continue to count on Daconil Ultrex for top disease control — one more good reason to put our reduced rate Daconil Ultrex short interval spray program to work for you.



Always follow label directions carefully when using turf and ornamentals plant protection products.
 ®Registered trademark of ISK Biosciences Corporation. ™Trademark of ISK Biosciences Corporation.

*For best results, we recommend using 20% lower application rates on a 7-10 day schedule. Section 12(a)(2)(G) of FIFRA provides that it is unlawful for any person "to use any registered pesticide in a manner inconsistent with its labeling"; quoted language is defined in section 2(ee) of FIFRA and expressly excludes the act of "applying a pesticide at any dosage, concentration, or frequency less than that specified on the labeling unless the labeling specifically prohibits deviation from the specified dosage, concentration, or frequency." Thus, in the absence of specific label prohibitions, it is not unlawful under section 12(a)(2)(G) to use a registered pesticide at a dosage, concentration, or frequency less than that specified on the labeling of the pesticide.

User must have label in possession when applying these rates.

†For a copy of our Daconil Ultrex Super Weather Stik Guarantee, write to Daconil Ultrex Guarantee, ISK Biosciences Corporation, Turf & Specialty Products, 1523 Johnson Ferry Rd., Suite 250, Marietta, Georgia 30062

†† Micrographs have been colorized for demonstration purposes.

PGA champ Brooks designs Texas links

FORT WORTH, Texas — Construction has started on Southern Oaks Golf Club, an upscale daily-fee course designed by Mark Brooks Golf and located 15 miles south of downtown Fort Worth.

Southern Oaks will feature an 18-hole layout designed by Brooks, the 1996 PGA Champion, and also an expansive 15-acre practice and teaching area, an 8,400-square-foot clubhouse and an indoor/outdoor pavilion with seating for more than 200 people that will be used for tournaments and corporate outings.

Brooks, a seven-time Tour winner and 14-year member of the PGA Tour, has taken advantage of the site's natural landscape and wooded areas. The 300-acre course and 350-home residential community is being developed by Timberchase Development Co. Southern Oaks is the second project for Brooks and developer Peter Thomas, president of Timberchase.

"The routing is the heartbeat of any course, and in many cases, is the only permanent feature of a golf course," said Brooks in announcing the project. "The Southern Oaks project will benefit tremendously from its natural environment, and I look forward to creating the centerpiece of this unique community."

NationBank of Texas, Fort Worth Division, and a group of private investors are financing the project. Wadsworth Golf

Construction of Plainfield, Ill., is building the course and Southern Irrigation Consultants of San Antonio is designing the irrigation system. Ken Schaumburg Architects of Fort Worth is designing the clubhouse. Southern Oaks will be managed by Mark Brooks Golf and is scheduled to open in October 1998.

Notre Dame layout on schedule for 1999 opening

SOUTH BEND, Ind. — Work has progressed on Notre Dame's new 18-hole Warren Golf Course far more smoothly and quickly than designers Ben Crenshaw and Bill Coore had anticipated.

All but two or three of the 18 holes had been shaped by early December. Crenshaw and Coore said the sandy soil at the site northeast of the famous campus is one key reason why

construction has gone so well.

Coore has said the sand-based soil discovered by construction crews under a clay layer has qualities consistent with the United States Golf Association greens mix. The site itself features gently rolling land with mature trees.

Grass will be planted in late spring or summer and the course is expected to be ready for play by spring 1999.

Performing daily both on and off the course.

Work begins on 7th RTJ Trail site

PRATTVILLE, Ala. — The latest stop in Alabama's Robert Trent Jones Golf Trail is unfolding here with preliminary clearing work.

The suburban Montgomery site is scheduled to include at least three, and possibly four, 18-hole courses. Developer Bobby Vaughn of Sun Belt Golf Corp. is guiding the project in conjunction with the state's Retirement Systems of Alabama, which is building the complex.

The first 18-hole course, which will be built above a bluff, is scheduled to open by fall 1998. The second course includes routing on the bluff. A third course is planned around the lower lands and would play around water. A fourth course, which is in the proposal stages, would be built on the opposite side of Interstate 65.

The other Robert Trent Jones Trail sites in Alabama are in Huntsville, Anniston-Gadsden, Birmingham, Auburn-Opelika, Dothan and Mobile.



**United
Horticultural Supply.**

Quality Professional Turf Products
Practical & Knowledgeable Service

1-800-847-6417

www.uhsonline.com

To really make a name for yourself in this business, you need to be known for more than a fancy label or a glitzy product.

You need to serve the customer with practical knowledge and be able to anticipate their needs even before they know what they are.

United Horticultural Supply is determined to make you look good not only on the course, but in the clubhouse and in the boardroom as well.

Be our guest as we proudly sponsor the Opening Session at the 1998 GCSAA Show in Anaheim. There you'll be entertained by another pro who performs well in many areas, Peter Jacobsen.



Casper, Nash team up on Del Webb track

SURPRISE, Ariz. — The golf course design team of PGA Hall of Famer Billy Casper and Phoenix-based golf course architect Greg Nash recently unveiled Granite Falls, their second golf course for Del Webb's Sun City Grand here.

The new public layout 18 miles northeast of Phoenix marks a dramatic departure from the typical desert layout, and is strikingly different than nearby Desert Springs, the duo's first course at Sun City Grand.

"Typically, a golf course in this part of the country is either integrated into the natural desert setting or landscaped to appear as an oasis," Nash said. "Granite Falls has a totally different look and feel that is reminiscent of the more verdant regions of the country. We incorporated greener, leafier plants and trees that give this course a very lush appearance."

With 36 bunkers and few water hazards, Granite Falls poses less of a threat to higher-handicap players. Golfers will be challenged however to get their shots close to the pin on greens that average a whopping 10,000 square feet. Fairway mounding will help direction, strategy and ball containment. Long, flowing ridges on the course resemble sand dunes and buffalograss gives a softer look to the backs of sharply-edged ridges and non-play areas.

GEORGIA LINKS RE-OPENS AFTER 1-YEAR HIATUS

TIFTON, Ga. — Sunsweet Hills Golf Club reopened recently after closing for a year due to an illness to owner Leonard Morris. Sunsweet, originally opened seven years ago, was designed by Don McMillan, a Tifton resident who has been involved with more than 150 projects worldwide. Sunsweet Hills boasts a setting that includes forests of pecan, pine, oak and poplar trees and eight holes bordering water. Kevin Touchstone is the superintendent.

Arizona course worker saves golfer's life

SCOTTSDALE, Arizona — Putting for a \$2 Nassau may not be a life and death struggle for some amateur golfers, but recently, the Boulders Golf Club witnessed first-hand that a heart attack knows no boundaries or limitations.

During a regular men's member outing on the resort's North

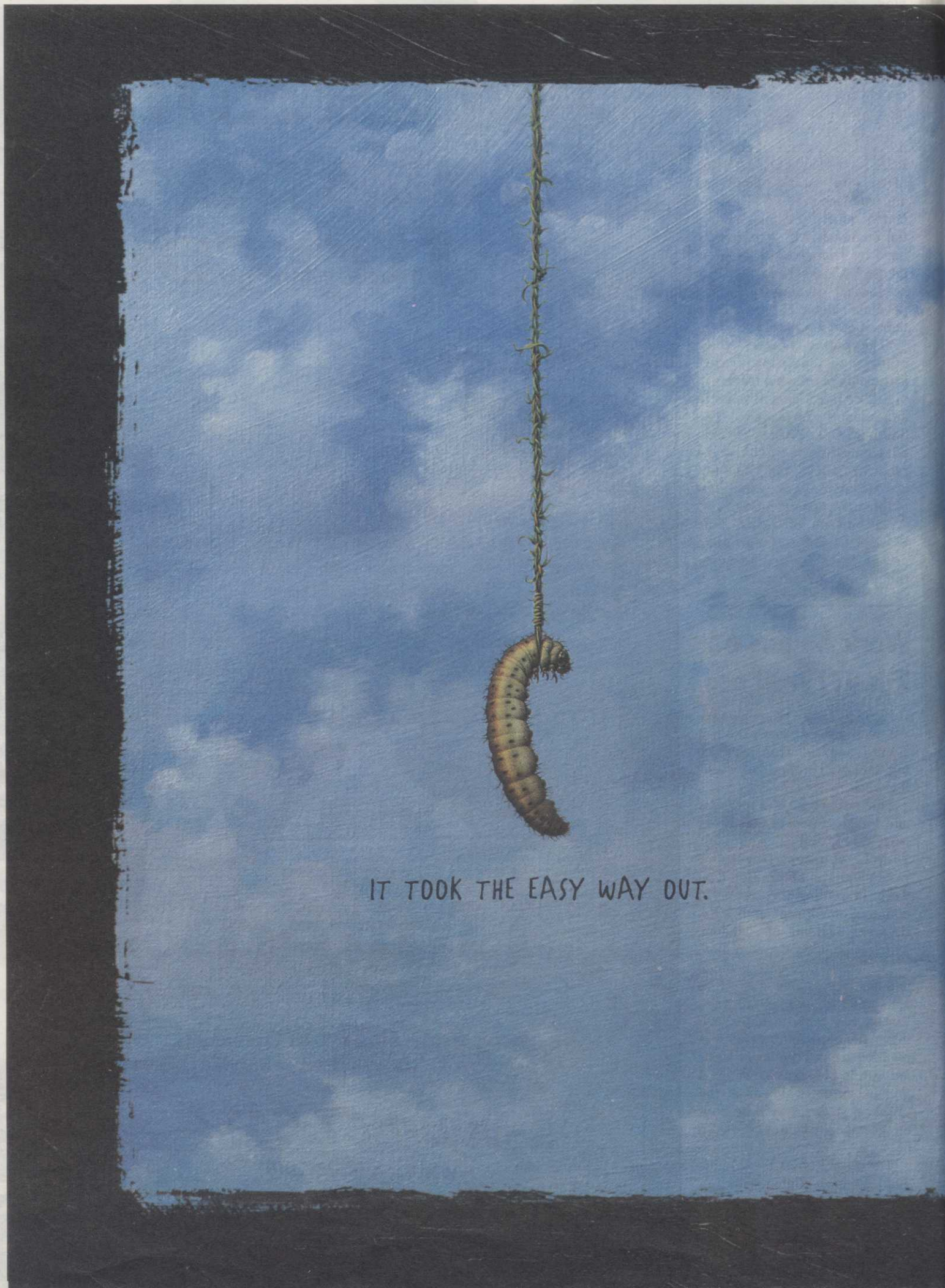
course on Nov. 24, a member was stricken with an apparent heart attack while putting on the 14th green. Rob Turner, golf operations manager for the Boulders and a PGA Class A professional was touring the course with fellow employee, Mike Miller when they came upon a frenzied scene at No. 14.

"Apparently, the member was hit with the heart attack just a minute before Rob and Mike reached the green," said Mike Lorch, head golf pro at The Boulders. "Rob knew CPR and began administering it immediately, while Rob went and called for an ambulance."

The ambulance arrived within

minutes and rushed the fallen golfer to Scottsdale Memorial North Hospital, where he underwent bypass surgery a day later. Paramedics on the scene credit the fast thinking of Rob Turner and Mike Miller for saving the member's life.

"Rob and Mike acted without hesitation and The Boulders recognized their outstanding service with a special award and ceremony later in the week," added Lorch.



IT TOOK THE EASY WAY OUT.

California airport board seeks private course operator

LOS ANGELES — Golfers in Palmdale, Calif., will continue playing the Desert Aire Golf Course as the Los Angeles World Airports Board of Airport Commissioners voted Thursday to seek a long-term private operator and end the city of Palmdale's lease to operate the course at that city's request.

The city of Palmdale has leased and operated the nine-hole, 47-acre golf course since 1982. Delano Enterprises, operator of the course's pro shop and restaurant under a lease from the city of Palmdale since 1991 and 1994, assumed the operation of the golf course in the high desert city in October. The

\$700,000 cost of operation and maintenance exceeded the course's revenues by \$200,000 last year.

With the city of Palmdale's lease with LAWA expiring on Dec. 31, Palmdale Parks and Recreation officials asked LAWA to relieve them of their role and find a private operator for the

long term. The board of airport commissioners agreed to allow Delano to operate the entire course on a month-to-month basis, while LAWA begins a process to find a private operator.

"The City of Palmdale is very much in favor of the continued operation of the golf course, as it represents a popular and important community recreational asset," said John Driscoll, LAWA's

executive director.

Delano's term of lease will last for six months. LAWA then will award a two-year lease to an operator through a request for proposal. During that period, LAWA will prepare a comprehensive request for proposal for a long-term operator. Desert Aire is located on Palmdale Regional Airport property at Avenue P and 40th Street East.

Heckenkemper 18-hole layout opens in Ark.

FAYETTEVILLE, Ark. — Fayetteville's newest course, the 18-hole, daily-fee Stonebridge Meadows, has opened for play to rave reviews.

Golf course architect Randy Heckenkemper of Tulsa used the natural terrain of the former Goff Farms east of downtown Fayetteville to create a 7,150-yard layout. Bill Meadows, CEO of Meadows Enterprises, gave Heckenkemper freedom to take advantage of the 1,000-acre site. John Streachek is the course superintendent.

The course is named for a bridge on Stone Bridge Road, which dates back to around 1900 and is visible from the course's 10th hole. The site of Stonebridge Meadows was also reportedly the setting for an early golf course in the early part of the century. The facility's 2,400-square-foot clubhouse is a renovated business farmhouse from Goff Farms.

Meadows has said long-term plans include a second 18-hole layout on the property, with one of the courses becoming private.

Phoenix planners vote to preserve Biltmore course

PHOENIX — The Adobe golf course at the Arizona Biltmore — the centerpiece of an ongoing controversy over landowners' rights — is a step closer to being preserved.

The city's planning commission has approved placing a "golf course district" designation for the Adobe course and adjacent courses, which would protect them from development. The City Council must still approve the designation.

The owner of the land on which the golf course sits, Kabuto Arizona Properties, is strongly opposed to the designation. Kabuto has said it plans to shut down the golf course and develop the land. It has also said it will fight any attempts to prevent it from developing the land.

Break the spirit of any cutworm, sod webworm
or armyworm with Conserve* SC turf and
ornamental insect control. It controls tough
pests as effectively as any synthetic. In fact,
symptoms appear within minutes of contact
or ingestion, putting an immediate end to
plant damage. And, since Conserve is
derived from a naturally occurring organism,
it also helps control your worries about
chemical applications and the environment.

Learn more about Conserve. It's Changing the
Nature of Insect Control.™ Call 1-800-255-3726.

Conserve. The end of the line for insect pests.

Dow AgroSciences

Conserve* SC

Nature can be one tough Mother.™

www.dowagro.com

Always read and follow label directions. *™Trademark of Dow AgroSciences LLC

Former major leaguer builds course

IRVINE, Calif. — Former major league baseball player Doug DeCinces has opened his new Strawberry Farms Golf Club, an 18-hole, daily-fee course. The course has been in the works for almost five years and is the newest in a growing list of top-end, daily-fee courses in Orange County.

The par-71, 6,700-yard layout was designed by golf course architect Jim Lipe, a senior designer for Jack Nicklaus' Golden Bear Inc. By contractual agreement, Lipe is allowed to design one course a year on his own and he enthusiastically pursued and got the Strawberry Farms project.

"I liked the project because of the challenges," Lipe recently told *The Orange County Register*. "This course allowed for several different options."

The front nine, which is owned by the county, is a wide-open layout that has wetlands and natural vegetation. The back nine, owned by the Irvine Ranch Water District, is built around the Sand Canyon Dam and is tight and challenging. The fairways of Strawberry Farms are Bermudagrass and the greens are bentgrass. The rough is a

mixture of rye and bluegrass.

Both the clubhouse and the cart barn reflect the farm feel of Strawberry Farms. DeCinces has said the goal of the project from the beginning was to have one of the county's finer courses that would be comparable to Pelican Hill in Newport Coast and Oak Creek in Irvine.

AGC signs on to manage two California munis

SAN LEANDRO, Calif. — The city has signed an agreement with American Golf Corporation (AGC) to assume operation of its two municipal golf courses — the 18-hole Tony Lema course and the nine-hole Marina course.

Under the agreement, AGC has pledged \$8.1 million in renovation and rents to the city. The firm plans to turn the two courses into profit-making ventures. American Golf will

assume management of everything from the pro shop to maintenance operations.

Renovations to the courses are expected to start this year, with an agenda that includes redesigning and rebuilding greens complexes, tees, fairways, cart paths, drainage and irrigation of the Lema course. At the Marina course, greens, tees and drainage will be rebuilt along with the construction of a double-deck driving range.

Warm fall may cause problems with leaves

MIDLAND, Mich. — The unusually warm fall weather in the northern Midwest left many leaves on trees far longer than usual, which has caused some concern with area course superintendents.

Trees in Michigan usually lose their leaves by the fourth week of October. But last fall, the process crept into late November.

Eric Kleinsorge, superintendent at the Midland Country Club, said late-falling leaves can clog drains and cause problems that lead to greens damage.

"The biggest problem we have to worry about is if the leaves fall late in the winter and we can't get them picked up before it snows," Kleinsorge said. "The leaves could plug up our drains and they wouldn't be able to get rid of the surface water that would collect."

Kleinsorge said trapped surface water, which can fall into a cycle of freezing and then thawing and then freezing, can lead to crown hydration, which kills turfgrass.

Another potential problem caused by piles of late-falling leaves is blockage of sunlight and trapping in moisture, which can lead to gray snow mold developing underneath the leaves.



Examine the Difference

Court rules pro golfer may use golf car

By BOB SPIWAK

A judge in U.S. District Court, Eugene, Ore., has ruled that professional golfer Casey Martin must be allowed to use a golf car in Qualifying School competition.

Martin, captain of the Stanford University golf team which included Tiger Woods, has a con-

dition which causes great pain after he has walked a few holes, said his attorney and longtime family friend, William Wiswall, of Eugene.

Martin's request to the PGA to use a cart was denied, said Wiswall, and a suit was filed in District Court under the Americans with Disabilities Act. The

disease, Klippel-Trenaunay-Webber Syndrome is one "...which limits the plaintiff's ability to walk," according to court documents.

The Professional Golfers' Association filed a motion to dismiss the complaint as well as a motion to change venue, both of which were denied by judge Thomas Coffin.

Martin was competing in the

third round of the Hooters Tour, which made him eligible for the Nike Tour, the next step in qualifying for the PGA Tour. Should he finish in the top 35 on the Nike Tour, he would receive his PGA Tour card, said his attorney.

At press time, a trial date had not yet been set, but attorney Wiswall said he expected the trial early in 1998.

Garl layout first public track for many years in N.C. county

DURHAM, N.C. — Durham County has its first new public golf course in decades with The Crossings Golf Club at Grove Park, a semi-private 18-hole facility.

The Ron Garl-designed par-72, 6,700-yard course, located on N.C. 98 about 5 miles east of N.C. 70, opened to limited play in November. The Crossings has a driving range, practice areas, 4,000-square-foot clubhouse and covered outdoor pavilion.

Garl actually faced a unique challenge at The Crossings. He was hired by the second developer, RDC Golf Management of Parsippany, N.J., to finish a course that had already been routed. Garl threw out six of the original 18 holes and made changes to the other 12, creating a rolling layout that he says challenges golfers to use every club and every shot in their bag.

a Ransomes Greens Mower Can Make in Your Operation



Demo the Ransomes Greensplex™ 160



Keep your greens in peak condition with the Ransomes Greensplex™ 160. Features such as Turf Protector™ biodegradable oil, a wider range of cutting heights, fewer hydraulic fittings and an operator-friendly design are just a few of the reasons the Greensplex 160 is a major player on courses everywhere. Feature-for-feature, the 160 is the finest mower you can buy for maintaining your greens.



In addition to the 160, check out Ransomes' other greens mowers. The E-Plex™ is the industry's first all-electric greens mower. For no noise, no pollution, less maintenance and a closer clip rate, the E-Plex delivers a quality cut and fewer headaches. The walk-behind GS 55 is precisely balanced from front to back and from left to right for a perfectly uniform cut. Flex-mounted handlebars allow the mower to hug the green for superior results.

Give the Ransomes Greensplex 160, E-Plex or GS 55 a try, and we'll give you a free pair of leather work gloves. Call 1-800-228-4444 to arrange a demo or for the name of the dealer nearest you.



**RANSOMES
CUSHMAN
RYAN**

For The Best Results

Indiana track to undergo facelift

COLUMBUS, Ind. — With the leadership of new manager Mickey Powell, the 27-hole public Otter Creek Golf Course is undergoing a "rebirth."

Powell has implemented a vigorous improvement program including a fleet of new golf cars, new golf programs, new golf director, clubhouse renovations and renovations to 18 of the facility's 27 holes. The upgrade is expected to cost less than \$1.5 million and be completed by the end of 1999.

Otter Creek's original 18 holes were designed by Robert Trent Jones and opened in 1964. In 1995, nine more holes designed by Rees Jones opened.

Powell was actually Otter Creek's first golf professional in 1964 at the age of 23. He stayed until 1973 and in the ensuing 25 years built and ran the Golf Club of Indiana in Zionsville, served as chairman of the PGA Championship and president of the PGA of America while being inducted to the Indiana Golf Hall of Fame.

Work on the first nine holes in the renovation is expected to start next August with work on the second nine set for August 1999.

Accessibility, affordability, sustainability



Michael Levans,
editor

We've been writing about it in these pages for years. The American Society of Golf Course Architects (ASGCA) has been preaching it. Everybody in golf is talking about it. And now, finally, somebody is doing something about it.

Three cheers for The World Golf Foundation's The First Tee program.

If golf is going to continue to grow, it's going to need to need an influx of accessible, affordable, sustainable golf facilities. Through the help of The First Tee, consisting of funds donated by golf heavyweights like the PGA Tour and USGA, we just might get some.

If you haven't done so, turn back to the cover and read the story on The First Tee then turn to our Development section to read the related stories on Detroit's Belle Isle and Steve Champion's plans for his "family golf" development in Fort Worth, Texas.

This package of stories (see pages 58-59) might be the most important stuff we print this year. Everybody is jumping on board — ASGCA, GCSAA, LPGA among others — to offer funding or professional services not solely because it's good public relations, which it is, but because the industry can only benefit from an unselfish, combined effort. Everybody will win.

The industry has never seen an effort like this, and if the cards are played correctly over the next five years, it will never have to worry about concerted effort again. Developments of this nature will become commonplace, stories about Steve Champion's initiative in Fort Worth will become run-of-the-mill and the industry will have helped develop a new legion of devoted, highly-skilled golfers who learned every aspect of the game at age 6.

Tee times at the masterpieces will be booked solid in 2010 because tee times at Belle Isle were booked solid in 1998.

"Accessibility and affordability need to be the watch words for the next five years," said design guru Michael Hurdzan during an interview for the story.

Now, let's stick to this and see what happens.

Everybody is chatting about the possible Textron/Ransomes deal while word's out that John Deere's about to move into the golf car business. If you like spending time at the rumor mill, the upcoming show season promises to one of more satisfying in years.

I've had a few conversations with Peter Wilson, president and chief executive officer of Ransomes, and all we know at this point is that, as of December 22, the deal is in the hands of Ransomes stockholders (see story pg. 67).

For the record, the Ransomes and Jacobsen distributors we spoke with for the story are feeling good about the possibilities.

Ladies and gentlemen, golf's First Spokesman, Bill Clinton

Got a great idea for your New Year consideration: When Bill Clinton steps down as president, hire him as the spokesman for the golf industry. Hey, no sneers and jeers, please. Hear me out!

Here's a guy — better still, a golfer — who has maintained public support, even stayed out of jail, in the midst of all this chaos. So, just think what he could do working for an ethical, clean sport like golf.

I mean, our head of state has managed to keep his job despite Filegate, White Watergate, Travelgate, Troopergate and Indonesiagate as well as Jennifer Flowers and Paula Jones. He has survived Jocelyn Elders, Dick Morris, Web Hubbell, Craig Livingstone and Hazel O'Leary. For crying out loud, he has attained 60-percent approval rates despite Somalia, Haiti, Bosnia and name-your-blunder; despite terrorists, drug dealers and spies being guests at the White House; despite his promise of a middle-income tax cut followed by a retroactive tax increase.

Heck, he even stayed afloat after it was revealed he and Hilary claimed tax deductions for used underwear they had given away.

Who better, I ask, than the man who will be The World's Most Famous Golfer (outside Michael Jordan, that is) — the ultimate spin-doctor-cum-golfer — to represent golf?

Beyond their innate bent toward high ethics, never again would anyone in the industry need to be concerned about, say, some sort of environmental accident, charge of elitism or racism, or any other politically incorrectivism.

Speaking of gaining good standing within the community, how about those folks at Belgrade Lakes Golf Club (BLGC)!

When an association of Belgrade Lakes residents needed another \$25,000 to be able to buy a mountain property and prevent its development, BLGC dropped the money in the can. It was more than a gesture, said managing partner Kyle Evans.

"We've said all along that we want to be part of the community," he said. "Only in a small town like this do you see things like that happening and we wanted to be a part of it."

BLGC partner Harold Alford, a major sports benefactor in Maine, "really loves this area," Evans said. "The land will be left open for public use — snowmobile trails, cross-country trails and hiking."

Golf course architect Rick Jacobson had an interesting take on whether there are enough good golf course builders to handle the boom in development. Featured in this month's Q&A (see page 47), Jacobson said:

"There is a concern at our end with the proliferation of new development. I guess, our rallying cry to developers would be: Consumer Beware!

Not only from the construction standpoint, but the design standpoint. Half the world's 50 million golfers are here in the U.S. and they are all armchair architects. People in every related field to golf course architecture are hanging out a shingle saying they are architects.

We've seen some unbelievable designs that were ready to proceed that had trouble written all over them.



Mark Leslie,
managing editor

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

Publisher

Charles E. von Brecht

Editorial Director

Brook Taliaferro

Editor

Michael Levans

Managing Editor

Mark A. Leslie

Associate Editor

Peter Blais

Editorial Assistant

J. Barry Mothes

Contributing Editor

Terry Buchen, CGCS, MG

Editorial Advisory Board

Raymond Davies, CGCS

CourseCo

Kevin Downing, CGCS

Willoughby Golf Club

Tim Hiers, CGCS

Collier's Reserve

Ted Horton

The Pebble Beach Co.

Dr. Michael Hurdzan

Hurdzan Design Group

Mary P. Knaggs

Bass Rocks Golf Club

James McLoughlin

The McLoughlin Group

Kevin Ross, CGCS

Country Club of the Rockies

Brent Wadsworth

Wadsworth Construction

Editorial Office

Golf Course News

106 Lafayette Street, P.O. Box 997

Yarmouth, ME 04096

207-846-0600; Fax: 207-846-0657

mlevans@golfcoursenews.com

mleslie@golfcoursenews.com

ADVERTISING OFFICES

National Sales:

Charles E. von Brecht

106 Lafayette Street, P.O. Box 997

Yarmouth, ME 04096

207-846-0600; Fax: 207-846-0657

cvonb@golfcoursenews.com

Western Sales:

Robert Sanner

Western Territory Manager

2141 Vermont

Lawrence, KS 66046

785-842-3969; fax: 785-842-4304

Marketplace Sales:

Jean Andrews

207-846-0600; fax: 207-846-0657

Public Golf Forum Sales

Kelly Campbell

207-846-0600; fax: 207-846-0657

Subscription Information

Golf Course News, P.O. Box 3047

Langhorne, PA 19047

215-788-7112

United Publications, Inc.

Publishers of specialized business

and consumer magazines.

Chairman

Theodore E. Gordon

President

J.G. Taliaferro, Jr.



Copyright © 1998 by United Publications, Inc. All rights reserved and reproduction, in whole or in part, without written permission from the publisher is expressly prohibited.

GOLF COURSE NEWS

GUEST COMMENTARY

Canadian golf management gets environmentally proactive

By MARK A. SCENNA

BURLINGTON, Ontario, Canada — In today's world, perception drives our society's opinion. Consequently, due to the lack of environmental initiatives, the golf course management industry has faltered.

It is no surprise that the public does not often equate the golf industry as environmentally proactive. Public-opinion polls

Mark A. Scenna is co-writer of the *Environmental Management Resource Manual for the Canadian Golf Course Superintendents Association*. He is manager of business operations for *Environmental Investigations Ltd.* in Burlington, Ontario.

suggest finely manicured turf is the result of an abundant use of pesticides and nutrients, unnatural to their surroundings.

This public perception can and has driven some government policies and regulations, some of which have created unnecessary burdens on the industry. The industry's developing and adopting standard environmental operating practices can go a long way in demonstrating to governments that it knows how to manage itself relative to environmental preservation.

Additionally, it assists members who may not be aware of current practices and proce-

dures. Finally, if properly promoted, development of standard procedures can demonstrate the industry's commitment to environmental preservation to the public, steering government regulations in accordance with industry initiatives.

I am very pleased to report that the Canadian Golf Superintendents Association (CGSA) has recognized the benefits of developing a standardized set of environmental operation guidelines and has addressed them by creating an Environmental Management Resource Manual.

The primary objective is to create a directory of information

sources that helps CGSA members (particularly course superintendents and assistant superintendents) address environmental management issues. In particular, the manual is to be created to ensure day-to-day operations comply with municipal, provincial and federal legislation, as well as current industry standards.

Additionally, the manual is being created to demonstrate industrywide due-diligence efforts that protect and enhance the image of the golf course management industry.

Most importantly, the Environmental Management Resource

Continued on page 78



You've got Poa on 3.



Summer Patch on 7, 8 and 9.



Crabgrass on 6.

**You may be
managing
your course
one problem
at a time.**



Fire Ants on 8.



Turf Stress on the back 9.



Pythium on 13, 16, 17 and 18.



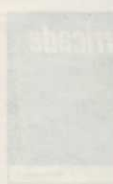
And a Board Member on the first tee.



YellowTurf
Pythium



Summer Patch
Antirrhizose
Dollar Spot



Annus
Crabgrass
Goosegrass

At Novartis, we're committed to continually bring you innovative products. And now we'd like to introduce an entire series of products — the Novartis Total Turf Program.

Finally, all the tools you need to manage your course from tee to green and all season long can be found in one total program.

Primo.[®] The ultimate foundation for turf.

The Novartis Total Turf Program begins with Primo for Pre-Stress Conditioning. That's because extensive testing has proven that treating with Primo is the best way to prepare a golf course and strengthen turf in advance to cope with extreme conditions such as drought, heat and disease, that make up a typical season.

Barricade.[®] Crabgrass control for the entire season, North and South.

Simply put, Barricade is the longest-lasting and best-performing preemergence herbicide for the control of Crabgrass, Goosegrass and Poa Annuua. That's because Barricade has low solubility and volatility, meaning it stays where you put it in the weed germination zone.

Plus, it won't stain your golf course.

Finally, a disease management program that lasts all season long.

In a revolutionary water-based microemulsion formulation, new Subdue[®] MAXX[®] systemically and effectively combats Pythium and Yellow Tuft. Plus, Banner[®] MAXX[®], using the same formulation technology, controls Dollar Spot, Summer Patch and Anthracnose, as well as 15 other turf diseases.

For additional protection against diseases, the

Introducing the Novartis Total Turf Program.

The first turf program designed to help you manage the entire course.

Novartis Total Turf Program also includes Sentinel[®] for the longest-lasting protection against 14 major turf diseases including Brown Patch and Dollar Spot on fairways.

We combine even more protection.

Like Alamo[®], a systemic fungicide for the prevention and treatment of Oak Wilt and Dutch Elm disease.

And for insecticides, there's Award[®], an unstoppable insect growth regulator that controls Fire Ants.

The Novartis Total Turf Program. An entire program to help you manage the entire course.

To start your Novartis Total Turf Program, call 800-395-TURF for the name of your Novartis sales representative or your nearest Novartis distributor.

THE NOVARTIS TOTAL TURF PROGRAM. THE MOST



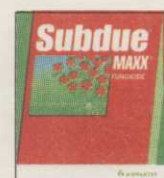
Pre-Stress Conditioning
Plant Growth Regulation
Overseeding



Crabgrass
Poa Annuua
Goosegrass



Dollar Spot
Summer Patch
Anthracnose



Pythium
Yellow Tuft



THOROUGH WAY TO PROTECT YOUR COURSE.



Brown Patch
Dollar Spot



Dutch Elm
Dollar Spot



Fire Ant Control

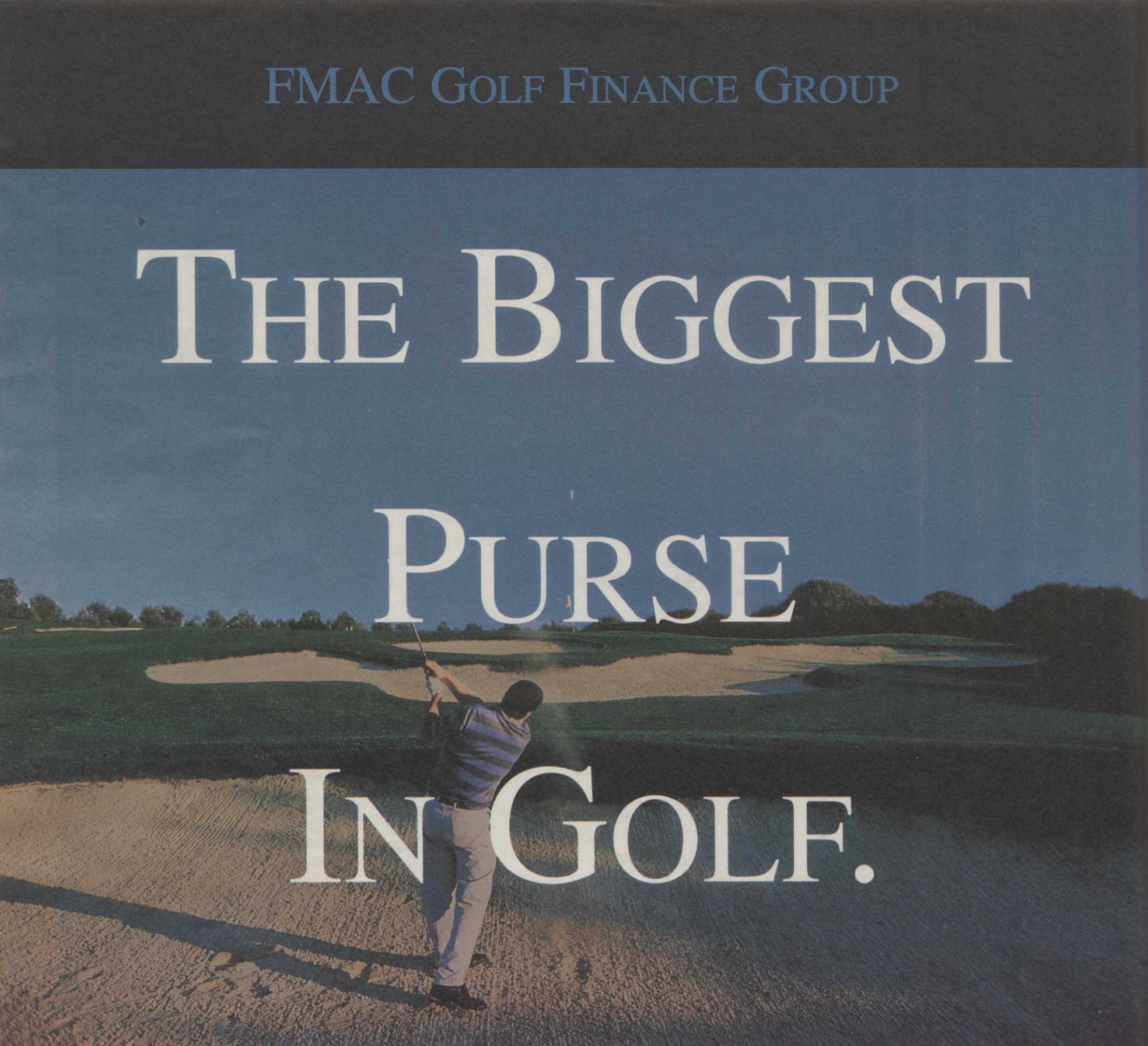


- Alamo[®]
- Award[®]
- Banner[®] MAXX[®]
- Barricade[®]
- Primo[®]
- Sentinel[®]
- Subdue[®] MAXX[®]

before buying or using these products.

FMAC GOLF FINANCE GROUP

THE BIGGEST PURSE IN GOLF.



ACQUIRE

LEASE

REFINANCE

RENOVATE

Whatever your financial needs, let FMAC help you achieve your goal. FMAC Golf Finance Group is staffed by experienced professionals who really understand your business. We offer fixed rate loans with terms of up to 20 years. Our floating rate loans feature interest ceilings that protect you from runaway inflation and interest rates. We lend and lease to all types of golf course facilities, from daily-fee courses to member-owned clubs and long-term leaseholders. When we

arrange a loan, it's based on the cash flow of your business—personal guarantees are often not required. Our legal and appraisal process keeps our fees far below those of other lenders. Simply provide us with the financial data for your facility and we'll provide an estimate of its value and the equity available to you.

Call Mike DeMita in Atlanta; Doug Brodie in Los Angeles; Ed Boyle or Ralph Little in Greenwich and find out how we take the hazards out of golf financing.



We know golf finance to a tee.

Atlanta 800-664-3622 • Greenwich 800-884-3622 • Los Angeles 800-611-3622

BRIEFS



FTGA ELECTS BARNES PRESIDENT

TAMPA, Fla. — David Barnes has been elected 1997-1998 president of the 1,200-member Florida Turfgrass Association (FTGA). Elected during the FTGA's 45th annual Conference & Show here, Barnes has more than 20 years experience in golf course turfgrass management. He is vice president and general manager of the Greg Norman Turf Co. in Avon Park. He has been a member of the FTGA since 1988, serving as vice president in 1996-1997. Barnes is also involved with the University of Florida IFAS.

MIDWEST EXPO IN JANUARY

INDIANAPOLIS, Ind. — The 1998 Midwest Turf Expo will be held Jan. 20-22 at the Indiana Convention Center here. A pre-Expo Golf Course Superintendents Association of America (GCSAA) seminar entitled "Design, Construction and Maintenance of Chemical Storage Facilities" will be held on Jan. 19. Registration and exhibitor information is available by calling Beverly Bratton at 765-494-8039.

IMG INKS FOUR CONTRACTS

LAKELAND, Fla. — International Golf Management has signed golf course maintenance contracts with The Blueberry Plantation Golf and Country Club in Alma, Ga., and with three golf facilities in Florida — Heritage Greens, Pelican Strand in Naples and Delray Country Club in Delray Beach. Heritage Greens is an 18-hole course scheduled to open in January. Pelican Strand is a semi-private 27-hole facility whose final nine holes will open in mid-January.

FREE BALLS? YES ... AT THAYER CC

THAYER, Mo. — No, that is not a misprint. Thayer Country Club has devised a plan to ease the "fall foliage frustration" that strikes golfers each autumn. You know: Great drive, down the middle, but unfindable because of tree leaves. Thayer's new policy won't find those lost balls for its golfers, but it gives them the chance to replace them. Using the honor system, golfers can just take the balls they lost that round from a collection of those found throughout the year by superintendent Tom Benyo. "I've never heard of a course replacing lost balls, but why not?" said Benyo. "After all, these balls came from the golfers. Let's give them back."

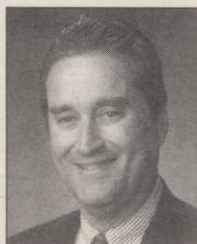


Ohio show hits hot buttons

President stresses green 'marriage'

By MARK LESLIE

COLUMBUS, Ohio — Calling the relationship of the state's golf course superintendents, sports turf managers and lawn-care operators "a beautiful marriage," new Ohio Turfgrass Foundation (OTF) President Joe Duncan said the different groups are learning more and more from each other as time passes.



Joe Duncan

"That relationship has existed for a long, long time, but we depend on each other more than ever before," said Duncan, owner of Evergreen Lawn Care Inc. in Troy, who succeeded Hank Chafin at the OTF Conference and Show here, Dec. 8-11. "We're learning that everything we do is an integral part of each other's work. Things that happen on sports turfs and on golf courses, and the research they are fostering, affect us all."

Continued on page 35



Prof. pushes more biological control

By MARK LESLIE

COLUMBUS, Ohio — Questions abound in the arena of turfgrass soil ecology and biology, but Dr. Michael Boehm pointed to a future where biological care plays an equal role in maintenance with chemical and cultural care and the turfgrass' genetic resistance.

The Ohio State University (OSU) assistant professor of plant pathology painted a picture in which current maintenance practices are dominated by chemicals, and where cultural practices and genetic resistance dwarf biological controls.

"We want to get all spheres relatively the same size to give turfgrass managers the ultimate and largest arsenal to combat turfgrass diseases," Boehm told an audience at the Ohio Turfgrass Foundation Show and Conference here.

"Our goal," he said, "is the integrated management of diseases ... to push the responsible use of biorational, environmentally friendly and environmentally

Continued on page 36



Gathering data by GPS and GSI.

Computer maps offer advantages for maintenance and construction

By KEVIN P. CORBLEY

LAKESWOOD, Colo. — Computerized mapping is the future of golf course maintenance and construction. That's the direction Larry Rodgers of Larry Rodgers Design here sees the industry taking. And his clients, some skeptical at first, tend to agree.

For more than a year, Rodgers has been using Global Positioning System (GPS) and Geographic Information System (GIS) technologies to monitor and map the installation of irrigation systems his 1ST OF 3 PARTS company designs for new and existing courses. When each project is completed, Rodgers' clients not only have new irrigation, they are left with a digital map of the course they can use for many purposes.

"Digital mapping essentially replaces aerial photography in golf course mapping," explained Rodgers. "GPS and GIS are a lot more accurate and much less expensive in the long run than air photos."

Typically, an aerial photo of a course is taken after construction and has limited use as a map reference for some maintenance and future design changes. Digital mapping is conducted throughout the construction process, whether for a new course or a replacement irrigation system at an existing one. The digital map is created in layers as the project progresses and can be used to facilitate the construction itself.

"The bottom line is, this technology saves money by virtually eliminating change orders in renovations of existing courses," said Rodgers.

Digital maps give contractors an extremely accurate visual guide they can follow during construction. As a result, completed projects match very

Continued on page 22

GOLF AND THE ENVIRONMENT



A water sample is taken at TPC River Highlands in Cromwell, Conn.

Tackling unreasonable expectations

By RON DODSON

It's interesting how jobs seem to define who we are. For instance, when we ask, "What is a golf course superintendent?" we're really asking what job does he or she do, and, believe me, everyone's got an answer about what they're supposed to do.

First of all, everyone seems to agree that a superintendent's primary job is to manage the golf course (meaning turfgrass). And it follows that every golfer has an opinion about how a golf course should be managed. They've played a lot of golf, they have a lawn, they have a lot of money, and they know how their greens ought to look and play. That makes them experts on how turfgrass ought to be managed. Right?

Sometimes that's how it sounds when I talk with golfers about superintendents.

Well, I'm here to tell you that good golf

course superintendents do a whole lot more than manage turfgrass. In addition to all of the work and expertise it takes to manage turf, they manage water, and from this environmentalist's perspective they also manage wildlife, wetlands, lakes, streams, forests, landscape ecology, insects, the weather, the media, the government, their staff, and the biggest challenge of all: the unreasonable expectations of golfers.

What do I mean by unreasonable? From an economic and environmental perspective, think about wall-to-wall manicured turfgrass, both in terms of man and machine hours as well as in loss of habitat. Think about fertilized turf right down to the edge of water bodies, both in terms of cost of fertilizers, man hours to spread it, and the potential damage to water quality

Continued on page 23

Global mapping to make (golf) life easier

Continued from page 19

closely with the original design, requiring few changes. And when construction does deviate from the plans, the designer sees it immediately on the updated maps and can fine tune the design as needed.

GPS AND GIS EXPLAINED

GPS and GIS are separate technologies that work together in creating digital maps. GPS pinpoints the locations of objects, and GIS contains information about those objects.

"Imagine it like this," said Rodgers: "GPS gives the house address, while GIS gives a description of the house."

The U.S. government developed GPS as a navigation and positioning tool. Orbiting satellites emit signals picked up by small GPS receivers which determine exact latitude, longitude and elevation positions on Earth.

Receivers are small enough to be carried in a pocket or backpack. The GPS receiver can record the location of a single point, such as a tree or sprinkler head, or the location and length of a linear feature, such as an irrigation pipe or fairway edge. It can even determine the area of a large spatial feature, such as a green or bunker, by collecting points along the perimeter.

Those GPS points can be loaded directly into the GIS, which is a multi-layered map database. Besides containing attributes of features, the GIS also displays those features geographically in their correct absolute and relative positions. In other words, a bunker is mapped in its correct latitude/longitude coordinates, as well as its exact position relative to the green, fairway, tees, shrubs and irrigation equipment.

Rodgers spent about \$30,000 for his GPS/GIS system, which includes a Trimble XRP backpack GPS, Fujitsu Pentium Pentop computer and mapping software. He has tailored the software to map golf course features.

"This system locates points with an accuracy of less than one meter," said Rodgers.

In a typical project, a member of Rodgers' field crew walks the golf course with the GPS backpack and computer, stopping at each feature to collect a GPS point with the press of a button. For spatial features, he walks their perimeter, recording points every few feet.

These collected points are fed directly into the pentop computer which creates an immediate on-screen map of the features as the associate walks. In addition, the associate uses a point-and-click interface on the com-

puter to acquire database information.

For instance, if he plots the location of a tree, he chooses "tree" from the screen menu. Additional pull-down menus allow him to click on the type of tree, its age and condition. Back at the clubhouse, the course superintendent can add notes about

when the tree was planted, when it should be fertilized and other information.

"This is how we build the course map and collect information at the same time," said Rodgers. "And because it's so quick, we go out many times and map each phase of construction, adding accurate information on

sod, greens, tee boxes, irrigation pipes, layer by layer as they are built."

Depending on how many features the course manager wants mapped, Rodgers collects from 30,000 to 100,000 points on any given mapping project.

"Thanks to the digital map, we have few change orders on existing projects and very happy owners and designers at the ends of our projects," said Rodgers.

Editor's Note: In next month's issue, part 2 in this series will describe the specific uses Rodgers and his clients are finding for digital maps in the construction and maintenance of new and existing golf courses.

Kevin Corbley is a Denver-based freelance writer specializing in GIS, GPS and remote sensing. He may be reached at KCorbley@aol.com.

The One and Only.

HERITAGE® - An Ounce of Prevention...

HERITAGE is a highly flexible fungicide that exhibits both preventative and curative activity against most turfgrass diseases, plus the following advantages:

- Improves turf quality
- Controls brown patch, Pythium, take-all patch, summer patch, anthracnose and snow mold
- Reduced risk to environmental resources
- Low risk toxicological profile
- Low rates, extended spray intervals
- Novel mode of action

Comparative Disease Spectrum Provided by Turfgrass Fungicides

Turfgrass Fungicides	Brown Patch	Pythium	Melting Out (Leaf Spot)	Anthracnose	Fusarium Patch	Necrotic Ring Spot	Red Thread	Spring Dead Spot	Summer Patch	Take-all Patch	Pink Snow Mold	Gray Snow Mold	Yellow Patch (Cool Weather Brown Patch)	Gray Leaf Spot	Pink Patch	Southern Blight
HERITAGE®	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Daconil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rubigan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Prostar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aliette	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Chipco 26019	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Subdue	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Banner Maxx	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bayleton	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Eagle	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sentinel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Turfgrass Diseases

ZENECA Professional Products



Conservation-minded Crystal Springs Golf Course.

Crystal Springs wins environmental award

BURLINGAME, Calif. — Crystal Springs Golf Course, managed by CourseCo, Inc., has won the prestigious Business Environmental Award for Land Use Planning/Management from the Peninsula Conservation Center Foundation (PCCF), the first golf course program ever honored by the organization.

In a separate announcement, the California Integrated Waste management Board named Crystal Springs a winner in its 1997 Waste Reduction Awards Program for voluntary reuse and recycling of materials that improve the surrounding habitats of native species and wildlife.

Situated on San Francisco-

owned property in the Crystal Springs watershed along Interstate 280, the course was singled out for CourseCo's efforts in water conservation, pest and chemical management, recycling, wildlife habitat management, education and training.

CourseCo, a Petaluma-based golf course development and management company, was among seven businesses honored at PCCF's awards luncheon Nov. 14 in Redwood Shores.

Eric Montgomery, PCCF awards director, said CourseCo's management of Crystal Springs GC has "helped lead the way to a higher level of environmental awareness and responsibility."

The two honors are noteworthy in the context of an ongoing public debate over the environmental impact of both existing and proposed public golf facilities on the San Francisco Peninsula.

"We know that under the right circumstances and with the will, golf courses can be managed in a sustainable fashion with negligible, and even beneficial, environmental impact," said CourseCo President Tom Isaak. "It's very rewarding to be recognized for our efforts by public and private organizations alike.

"Crystal Springs is a unique environmental trust in a beautiful location that serves thousands of public golfers in a diverse community," Isaak added. "Our goal is to be a model for environmental management, and to achieve excellence in all other areas of the operation as well."

PCCF established the Business Environmental Awards in 1990 to recognize small and large organizations that go beyond compliance to excel in environmental leadership, benefits and commitment.

Among the particular activities at Crystal Springs praised by the foundation are frequent testing for chemical levels, limited use of chemicals, localized treatment for pests, use of mulched landscape waste, construction of nest boxes and dust baths for birds, use of scrap wood to create habitats for field mice and other animals, extensive recycling by the restaurant, office and clubhouse, and public education. CourseCo last year signed a 20-year operating lease with the city.

SWEDA SCHOLARSHIP PRESENTED

COLUMBUS, Ohio — The first Don Sweda Memorial Scholarship has been awarded to Ohio State University turfgrass student Jason Burnard. Burnard received the \$1,000 scholarship during the Ohio Turfgrass Foundation Conference and Show here in December. It is given in memory of the former OTF president who died just two years ago.



Once you learn about the powerful, preventative protection and its fit with your best management practices, you'll agree that it's time to change the course of your turfgrass disease management program, with HERITAGE.

For more information, contact your authorized Zeneca Distributor or call Zeneca Professional Products Toll Free at 1-888-617-7690. www.zenecaprofprod.com

Heritage
FUNGICIDE

CHANGING THE COURSE
OF DISEASE CONTROL

Always read and follow label directions carefully. HERITAGE® is a registered trademark of a Zeneca Group Company. Aliette is a trademark of Rhône-Poulenc Ag Company. Banner Maxx, Sentinel and Subdue are trademarks of Novartis Corporation. Bayleton is a trademark of Bayer Corporation. Daconil is a trademark of ISK Biosciences Corporation. Chipco is a trademark of Rhône-Poulenc. Eagle is a trademark of Rohm and Haas Company. Prostar is a trademark of AgrEvo. Rubigan is a trademark of DowElanco.

Rick Kerins: Putting the environment first

By MARK LESLIE

HERMITAGE, Pa. — Rick Kerins had been “raising the bar” in the environmental friendliness of his maintenance program at Tam O’Shanter Golf Course here even before taking the reins as superintendent in 1983. Growing up on the course owned by parents Jack and Mary Lou Kerins, Rick “got a feel for the environment” early on.

That “feel” has translated into Kerins taking aggressive environmental steps that have earned him the national Environmental Steward Award from the Golf Course Superintendents Association in 1995, a Certificate of Appreciation from the Pennsylvania Game Commission in 1995, and the post of steward for Pennsylvania for Audubon International and its Cooperative Sanctuary Program for Golf Courses.

His love for the environment, Kerins said, is “something that’s in you. I may take it to the extreme sometimes. I take to heart what I do. I want the course to be environmentally friendly.

“It’s not one thing you do. There are a lot of things you can do to make it more friendly.”

Here is a man who uses Garlic Barrier in his pond to repel mosqui-



Rick Kerins, right, keeps his course eco-friendly.

toes; who uses an all-natural fertilizer; who uses green lacewings and lady bugs to attack aphids, diateneaceous earth (groundup seashells) to control earthworms, and nematodes to control grubs.

Here is a man whose recycling program runs the gamut from grass clippings to cardboard and batteries; who is on a gradual program to incorporate the turf with more ryegrass which is easier to care for, both culturally and



SUPER FOCUS

chemically; and who, when underground storage regulations began to take force, had a

local company build him an above-ground containment system that has now been duplicated many times over elsewhere.

“You wouldn’t be in the profession unless you enjoyed the challenges,” Kerins said.

Co-operating the course with his brother Ron, the golf pro, Kerins nevertheless was far ahead of the curve when he joined the Cooperative Sanctuary Program. It took him only one year to achieve full certification. “We were able to zip right through it because we had already met most of the criteria,” he said.

A professor who saw his Integrated Pest Management Program said it was the best he had ever come across.

“We’re hoping to be pesticide-free,” Kerins said. “I don’t know if that will be a total reality, but we want to have the very least possible. We respect the environment and don’t want to abuse it in any way. We live here.”

His real joy, Kerins said, lies in getting others involved in environmental programs — either at Tam

Continued on next page




NEW ITEMS

More Great Ideas From Southern!

1" STRAIGHT FIBERGLASS FLAGSTICK!

Lightweight - won't bruise your greens when dropped

4', 5', 6', 7', 8'

Any stripe pattern

Lots of stripe colors



\$32.00 dozen*

16" x 32" Dk. Green Cotton Tee Towel

Why buy a tiny 18" x 18" towel when you can get our big towel for less \$\$?

*Plain. Please call for quote on custom embroidery or screen printing.

1 1/4" REAL WOOD FLAGSTICK!

Be a Friend to the Environment Over 80% recyclable

A part of the past - today!

4', 5', 6', 7', 8'

Any stripe pattern

Lots of stripe colors



SOUTHERN

297 Dividend Drive
Peachtree City, Ga. 30269
1(800)233-3853
Fax (800)277-7701
Email: southerngolf@mindspring.com

Recycled Plastic Divot/Waste Bucket

Be a Friend to the Environment 100% recyclable

We'll buy it back at current recycled material rates if it ever wears out!



\$94.50 complete

Custom logo on lid available

Low Profile

Dark Green & Brown colors

It won't mildew, rot, fade, chip, crack, splinter, or shrink. Extremely durable!

2 year replacement guarantee on parts!




Kerins eco-friendly

Continued from previous page

O'Shanter or elsewhere.

With his wife Paula ("my right-hand person") at his side, Kerins has involved two students in Pennsylvania State University's Master Gardener Program, Boy Scouts and schoolchildren in the golf course property.

An Eagle Scout himself, Kerins approached area Scout Troop 16, and enlisted the Scouts to monitor bird boxes at Tam O'Shanter. The next year a young man pursued the monitoring as his Eagle Scout project and organized the Troop to build, place and maintain bird boxes.

"He's done it for a year now," Kerins reported. "This year we will have the Scouts work in hollows, make small brush piles for animals, and increase wildlife habitat.

"I was in Boy Scouts and other people gave me opportunities while I was growing up. I thought I could return the favor, but I just enjoy helping other people, too."

Two women are doing Master Gardener projects working on butterfly habitat at Tam O'Shanter. They are committed to spend 100 hours apiece at the course this year, and 50 hours a year afterwards.

And Kerins intends to build a trail for Scouts, schoolchildren and others who want to learn more about butterflies and nature in general.

"One of my main goals is to help others, but also to set an example," Kerins said. "I give a lot of talks to superintendent groups to promote the Audubon program. I'd like them to think a little differently about their cultural practices and what they put on their greens."

Education of the masses is being accomplished in another way at Tam O'Shanter as well.

At each tee, a sign emblazoned with the Audubon Cooperative Sanctuary System symbol informs golfers about one of the projects on the course, or the history of the land, or the facility's recycling program.

On the 12th hole, the nearby maintenance shop has been well landscaped. The 1st-tee sign discusses Tam O'Shanter management's concern for the environment. Another talks about the irrigation system which uses less water but achieves uniform coverage.

Kerins sees "a definite swing toward more environmental awareness," he said. "I also see a lot of companies coming out with products that are less toxic."

Although he didn't attend college, Kerins has attained certified golf course superintendent status. "I have taken many, many short courses," he explained. "And growing up on a golf course, you naturally learn a lot."

Trained as an elementary school teacher, Paula's forte at Tam O'Shanter is organization and the business end of the operation. She is also participating in the butterfly garden.

Will their three children (Colleen, 9; Christen, 8; Joseph, 3) follow in the footsteps of their parents and grandparents at Tam O'Shanter?

"They are very involved and out there on the course every day," Kerins said. "It [future] will be up to the kids. We're grooming them to, first, get their education, and then sit back and decide what they want to do."

Whether they work in golf or not, the odds are that they will inherit their father's "feel for the environment."

Florida GCSA honors Grigg

NORTH NAPLES, Fla. — Gary T. Grigg, superintendent at Royal Poinciana Golf Club here and president of the Golf Course Superintendents Association of America in 1995-96, has been presented the Florida Golf Course Superintendents Association's (FGCSA) Distinguished Service Award for 1997.

Grigg, 56, accepted the award at Naples' Bay Colony Club during a general meeting of the Everglades Golf Course Superintendents Association

(EGCSA). In presenting it, Dale Kuehner, past president of FGCSA, cited Griggs' "outstanding achievements as a golf course superintendent" and as "one who has given his time unselfishly in promoting golf course management." He praised Grigg for his efforts encouraging the unification and further professionalism of all Florida superintendents.

Grigg is a member of the British and International Golf Greenkeepers Association, and has been certified by that organi-

zation as a Master Greenkeeper, one of only 14 greenkeepers in the world to be accorded such certification. He is also a certified golf course superintendent.

Grigg came to southwest Florida in 1992 to oversee construction of Naples National Golf Club. He joined Royal Poinciana in 1995 to oversee a \$7 million upgrade of the private club's two 18-hole courses.



Gary Grigg



What other mowers dream of becoming.

Nestled in their sheds at night, ordinary mowers dream of only one thing: growing up to be a Kubota F-60 Series. And it's easy to see why.

The Kubota F-60 Series features our exclusive Auto Assist 4WD with Dual-Acting Overrunning clutch. It automatically transfers power to all four wheels when the going gets tough. Or, you can manually engage 4WD on the go. Either way, it gives you unequalled traction and maneuverability without tearing up valuable turf.

The durable, independent hydraulic PTO clutch lets you engage and disengage PTO driven implements on the move. A real time-saver in tight situations.



Available with 60" or 70" side discharge mower or 60" rear discharge mower.



Visibility and maneuverability will increase your productivity.

Kubota's advanced E-TVCS diesel engines are designed to deliver maximum power with minimum vibration and noise. Plus, these super-efficient powerplants go a long way in cutting fuel costs and emissions.

Available in 22, 25 and 30 horsepower 4WD models, the Kubota F-60 Series also comes in a 25 horsepower 2WD model.

So if you're looking for a front-end mower that handles like a dream, see your authorized Kubota dealer today.

For more information please write to:

Kubota

Kubota Tractor Corporation
P.O. Box 2992-GCN
Torrance, CA 90509-2992
1-888-4KUBOTA ext. 407

Financing available through
Kubota Credit Corporation

©1997 Kubota Tractor Corporation KT-10697



John James Audubon Environmental Steward Award given to Salinetti

LOUDONVILLE, N.Y. — Peter Salinetti, club manager and superintendent of Schuyler Meadows Club here, has received Audubon International's John James Audubon Environmental Steward Award.

The award was presented to Salinetti for "outstanding dedication, energy, enthusiasm, and leadership in improving the quality of the environment, his profession, and the lives of those who follow."

AI President and CEO Ron Dodson presented the award, citing Salinetti for innovative leadership and his connection to the community by joining in a partnership between Siena College (a private college that borders Schuyler Meadows) and Audubon International to become the first Audubon International Research Center. In conjunction with Siena College, college faculty and their students are conducting a variety of re-

search projects on Schuyler Meadows. The research is focusing on the wildlife and habitats of the course and the relationships between course management and use with those biological resources.



Peter Salinetti

Dodson said: "Peter is a perfect example of the frequently unsung environmental leadership efforts that can be found throughout the United States in a variety of businesses and industries. Through his steward-

ship activities, he has not only conserved natural resources, he has favorably impacted the biological diversity of the land. He has maintained wildlife inventories, reduced pesticide use, monitored water quality, enhanced habitat, and increased the naturalized areas of the property."

In 1995 Schuyler Meadows Golf Club became the first fully certified Audubon Cooperative Sanctuary in New York. There are only 120 fully certified golf courses in the United States. They are among over 2,000 golf courses that belong to the Audubon Cooperative Sanctuary Program for Golf Courses.

Somerset Hills earns Audubon full certification

BERNARDSVILLE, N.J. — Somerset Hills Country Club has achieved designation as a Certified Audubon Cooperative Sanctuary by the Audubon Cooperative Sanctuary System (ACSS).

Somerset Hills Country Club in 1993 joined the program which helps golf courses preserve and enhance wildlife habitat and protect natural resources.

"Somerset Hills Country Club has shown a strong commitment to its environmental program. They are to be commended for their efforts to provide a sanctuary for wildlife on the golf course property," said Marla Briggs, senior staff ecologist for Audubon International.

"The Audubon Cooperative Sanctuary System has been a positive experience for me as a golf course superintendent," said superintendent Bob Dwyer, "and for my assistants, Rick Krok (who has recently moved on to be a head superintendent at another facility) and Eric Neville, who were largely responsible for Somerset Hills becoming certified.

"Our continuing goal is to enhance a beautiful golf course into an even more beautiful and attractive golf course. By becoming a certified member of the Audubon Cooperative Sanctuary System we are telling our membership, our community of Bernardsville, and the state of New Jersey that Somerset Hills Country Club cares about the environment and that we will do all that we can to protect it."

PREVENT GRUBS. STOP THEM IN THEIR TRACKS. OR MAKE SURE IT'S NOT EVEN AN ISSUE.

Killington Golf Club joins Audubon

KILLINGTON, Vt. — Killington Golf Course has joined the Audubon Cooperative Sanctuary System (ACSS), a national program designed to help landowners preserve and enhance the environmental quality of their property.

"It's a great program to make

people aware of the environment on the golf course," said superintendent Chris Voutas. "We're putting out bluebird and bat boxes and encouraging wildflower growth. We'll also cut down on water and pesticide usage."

The ACSS provides an advisory service to help golf courses develop effective conservation and wildlife enhancement programs.

Unreasonable expectations of golfers

Continued from page 19
for humans and animals alike.

How about greens cut so short for speed that the grass itself is nearly killed, and that if they actually lose a green, they lose their job. These are only a few of the dilemmas faced by superintendents every day — only a small balancing act.

We all need to face the fact

that the game of golf is designed and managed for golfers. They are the revenue and they want what they paid for. But the trends are changing.

Federal, state and local government agencies are increasingly regulating and permitting the construction of new courses, as well as making major impacts on the way existing courses are man-

aged. All golfers need to understand this. If they care about the game, particularly its future, they need to be much more reasonable in their expectations and much more supportive of superintendents who are trying very hard to deal with the conflicts arising from all those who have a stake in the game — golfers, governmental agencies, turfgrass, habitat, wildlife, and the environment at large.

On the other hand, people have told me that organizations such as AI, the Golf Course Superintendents Association of America and the U.S. Golf Association are not doing enough to promote superintendents as professional land managers. I can only speak on behalf of Audubon International in this regard.

AI is a not-for-profit environmental organization with a mission to improve the quality of life and the environment through research, education and conservation assistance. That's our job; it's what we do. We've always maintained that we'll work with anyone if it advances our mission to improve the environment.

What we're not in the business of doing is promoting anyone's job, including that of golf course superintendent. We do, however, publicly recognize anyone who demonstrates a commitment to protecting and enhancing the environment through their jobs. We recognize school teachers, farmers, corporate executives, homeowners and, of course, golf course superintendents.

As a matter of fact, Audubon International's highest environmental achievement award, The John James Audubon Environmental Steward Award, has only been given twice, and both times to golf course superintendents — Tim Hiers of Collier's Reserve and Peter Salinetti of Schuyler Meadow Club — not because of their job, but because as they perform that job, they have demonstrated their commitment to fundamental environmental principles.

At AI, our job is to provide the information, framework and opportunities to help people rise to the highest levels of environmental accomplishment. Although it is not our job to recognize golf course superintendents as a group, we can and will recognize superintendents who take up the mantle of managing their courses with the environment in mind.

This is, in fact, the challenge that we all must face in life. No one can do it for us. Audubon International will continue to publicly recognize those in the golf course industry who demonstrate environmental dedication in the construction and management of golf courses and we will continue to recognize superintendents who rise to the top of the profession in this regard.

We hope golfers, and others in the industry, will do the same.

ROHMID



Now you can control grubs preventatively or curatively. With a single application. Only with new MACH 2™ Turf Insecticide.

MACH 2 is a powerful killer with a new chemistry that accelerates the molting process of target insects.

Just hours after ingesting MACH 2, the insect stops feeding. Then it dies beneath the surface in 2 to 3 weeks. It's that simple.

With MACH 2™ Turf Insecticide, you'll kill target enemy insects all season long. Grubs. Cutworms. Armyworms. Sod webworms. Plus, odorless MACH 2™ is easy to apply.

You don't even have to water it in immediately.

So don't let grubs control your grounds, or your schedule. Depend on MACH 2™ Turf Insecticide.

It's all you need to prevent or cure.

For more information or for the distributor nearest you, call 1-888-764-6432.

MACH 2™
TURF INSECTICIDE

**ALL YOU NEED
TO PREVENT OR CURE.**

New insecticides introduce new options for superintendents

By RICK BRANDENBURG

One statement that should hold true for superintendents who like to stay current with the newest pest-management products is that they should not be bored.

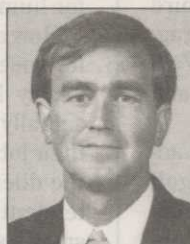
The last few years a number of new products have been introduced to the marketplace for golf course use. Many have been in-

secticides and many represent a departure from some of the conventional types of products we have been using. This includes new classes of products, materials I'll classify as natural products and some biological materials.

The exciting part of this is that many of these new products are very effective and offer superin-

tendents a lot of new options for dealing with insect pest problems. In particular, they offer new opportunities for pest control in environmentally sensitive areas.

One product recently introduced by Bayer is



Dr. Rick Brandenburg

Merit (*imidacloprid*), which has gained wide acceptance in the market for control of several species of white grubs. It is not only effective, but also received an accelerated registration from the Environmental Protec-

tion Agency (EPA) due to its favorable toxicity profile. Merit's mode of action is somewhat different from other insecticides and is in a class of pesticides called *chloronicotinyls*. The receptor site in insects is very sensitive to these products, while mammals and other creatures are much less sensitive. However, for this product to have maximum effectiveness, it is necessary to apply it before or during egg-laying. Merit is not as effective when used in a "rescue" mode to clean up existing white grub problems.

Another product, Mach 2 (*halfenozide*), will be in the marketplace during 1998. Similar to Merit, its toxicity profile makes it desirable in many situations and it must be applied before the infestation gets well established. Mach 2 is a joint venture between Rohm and Haas and American Cyanamid (Roh-Mid). It works as an insect growth regulator, but in a somewhat different fashion than some other growth-regulator products.

A number of products have been labeled in the past few years for turf insect management that fit in the category of synthetic pyrethroids. These include Mavrik, Talstar and Scimitar.

One attractive feature of these materials is that they are used at very low rates of active ingredient per acre. They generally have broad-spectrum control of a number of pests (although their activity against soil pests is often not too good). And they are low in toxicity to people, pets, birds and most wildlife, but are highly toxic to fish and should not be used close to water.

DowElanco has introduced Conserve SC. This is the trade name for its *spinosad* product for turf. It could be considered a natural insecticide since the active ingredient is the result of a fermentation process of a soil organism. Conserve SC has proven effective against a number of caterpillar pests.

Other natural products receiving more attention are made from the active ingredient *azadirachtin*, which is an oil found in the seeds and leaves of the neem tree which grows in the tropics. These products also act as growth regulators and cause the insects — primarily caterpillars such as sod webworms, cutworms and armyworms — to stop feeding.

Once again, *azadirachtin* products like Turplex from Scotts and Azactin from Olympic must be applied at an early stage of the

Continued on next page



A WINNING SELECTION FOR TOP PERFORMANCE ON ANY COURSE, ANY SEASON.

What makes Turf Merchants, Inc. the masters in overseeding?

The difference is in the grasses we develop specifically for overseeding applications: Popular perennial ryegrasses such as Affinity and Blackhawk, specialty lines such as Cypress Poa Trivialis and Barracuda Redtop, a complete set of grasses to match your conditions. And a service commitment that sets TMI apart. Whatever your overseeding needs, we've got the choice to place you in the green.

PERFECTING TURFGRASS PERFORMANCE



33390 Tangent Loop / Tangent, Oregon 97389
(541) 926-8649 / 1-800-421-1735 / fax (541) 926-4435
email tmi@turfmerchants.com / www.turfmerchants.com

TMI recommends the full labeled rate of Apron-FL for best establishment and performance of your turf.

Dr. Rick L. Brandenburg is a turf entomologist at North Carolina State University.

Tolson and Clark move on

HAMILTON, Mont. — **Don Tolson**, the first public-sector winner of the national Environmental Steward Award from the Golf Course Superintendents Association of America, is relocating to his home state in February.

Tolson, a certified golf course superintendent, is leaving the 27-hole Fox Hollow at Lakewood in Colorado, where he has worked

New options

Continued from previous page

insect's development and good monitoring of insect populations is important. What is unique about these new "natural" products is that today's formulations have the shelf life and handling characteristics of conventional pesticides. This makes them much easier to use than some of the older products of this type.

True biological materials have been around for years, but research is constantly being done to improve them. Naturalis-T from Troy Biosciences is a formulation of the fungal pathogen *Beauveria bassiana*, a disease that attacks a wide range of insect pests. Mycotech Corp. is also working on a *Beauveria* product. To date, only limited testing data are available on these products, but plenty of testing is underway to determine the role this biological material will play in turfgrass insect management.

Entomogenous nematodes have also been around for years, produced by a number of companies and sold under a variety of trade names. One such product from Ecogen is Cruiser, which is directed against white grubs.

Success with these products has been quite variable, but they certainly have practical application in areas of environmental sensitivity. The bacteria *Bacillus thuringiensis* has been marketed for years against caterpillars and has limited use in turfgrass. New strains and formulations are constantly under development.

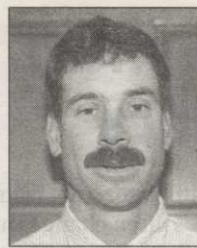
As new products are developed, it is important to stay abreast of how they might fit into a superintendent's insect management program. Equally important is an understanding of how to best make them work. Several of these new products must be used differently from more conventional products. Their success and/or failure will depend on a thorough understanding of proper use, the products' limitations, and knowledge of the pest to be controlled.

since 1990. "This has been such a great job I didn't think I'd ever leave," Tolson said. "But the opportunity came to return home."

His new home will be The Stock Farm, a Tom Fazio-designed track that is midway through construction. A project of Winchester Development, it sits in the foothills of the Sap-

phire Mountains in the southwest corner of the state, in the Bitterroot Valley five miles from Bitter River. The 3,000-acre site will contain the private 18-hole golf course and 104 home sites, said the 1972 Montana State University graduate.

SCOTTSDALE, Ariz. — **Mark**



Mark Clark

Clark has accepted the position as superintendent at Troon Golf & Country Club here.

Clark comes to Troon via The Country Club of Green Valley, just outside Tucson, where he was the superintendent for the past 13 years.

A certified golf course superintendent, he received his bachelor

of science in agronomy from the University of Ari-

z o n a . He served as president of the Cactus & Pines Golf Course Superintendents Association in 1981.

Clark was also named by the governor to serve on the Arizona Structural Pest Control Commission.



UNTIL NOW,
AN UNDULATING COURSE WAS AN ARCHITECT'S DREAM

AND A MOWER'S NIGHTMARE.



The New Contour 82 Deck mows undulations traditional rotary mowers can't.

A golf course with a rolling landscape is a beautiful thing to see but scalping can make parts of it look like a boot camp haircut. That's why Toro designed the new Contour™ 82 deck for the Groundsmaster® 3000 tractor. Four individual cutting chambers with 22 inch blades articulate independently up to 20 degrees and cut down to 1 inch. Without the fear of scalping you'll be able to go places you couldn't go before, so you'll get the job done faster. For a product demonstration call your Toro distributor: 1-800-803-8676, Ext. 152.

TORO

It's about *playability*



Job board, directional chart improve crew's efficiency

By TERRY BUCHEN

LAS VEGAS — The job assignment board is crucial to “get the word out” to all employees about what specific duties they will be embarking on in their daily rounds. What better way to communicate to each employee what is expected of him or her and how important it is to the overall efficiency of the golf course management operation?

“We mounted our job assignment board in our employee breakroom/lounge. It has a white dry-erase surface, with individual names for all employees, that slide in and out, and which are engraved and made by a local sign company,” explained Kim Byron Wood, superintendent at TPC at The Canyons here.

There is ample space next to each employee's name to list their first and second job assignments. The Canyons' first assistant superintendent makes out the job assignment listing by 10 a.m. each day, then hands it to the equipment manager so he knows which equipment will be used the following day. He then posts the following day's job assignments on the board just before he leaves so it is ready the next morning.

He usually does not post the second

assignments until later that same day because priorities often change throughout the early-morning hours. The second assignments are usually posted just before the staff begins to come in off of the course from its early assignments.

“We can also be even more specific in writing down our second assignments if we wait until they are about to return to the turf care center,” Wood said.

“We have ample room on the board to be quite specific with each job assignment,” he added. “The more information we put down in writing, for all of our employees, makes the communication process that much better and more efficient.”

Each morning the first assistant goes over every job assignment with all of our employees as a group, with the listing for each employee on the board also in plain site. “A good example,” Wood said, “is where we list the exact bunker raking sequence that we want to follow, on the board, which is easily understood by our employees.”

“Except for obvious shotgun starts, our golfers begin play on the 1st tee only where we have an hour and one half lead time to prepare the course for them, usually 45 minutes before play begins when

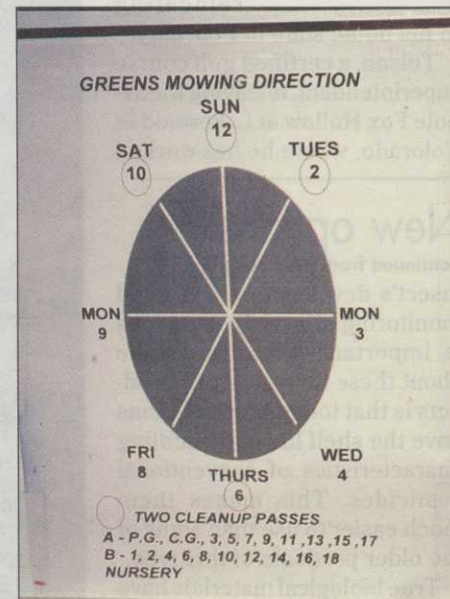


SHOP TALK

The employee job assignment board, right, with a greens mowing direction chart, below right, keep grounds crews informed and effective.

NAME	1	2	1	2
JON				
JOHN				
SHAWN				
MIKE				
JOSHUA				
NOEL				
MARTIN				
VICENTE				
PEDRO				
ISMAEL				
ROBERTO				
CECILIO				
CALLETANO				
ANGEL				
ARMANDO				

Terry Buchen photos



we encounter a frosty morning situation.”

A mowing-pattern clock is used every day and each individual day's mowing pattern is listed on the job assignment board for further clarification, Wood said.

Instructions for the cleanup lap procedure are listed on the board as well.

“Our routine for cleanup laps is at least every other day during the summer and twice weekly during the winter,” he said.

“We never assume that an employee knows what to do, so we always write it down on the board for easy, definitive clarification.”

Collier Miller, PGA Tour Properties' Southwestern regional director, and Cal Roth, director of golf course maintenance operations for its entire Tournament Player Clubs operations, “have standardized many of our successful operations that are proven winners in our industry,” Wood said.



See What's New At Fore-Par.

With new designs, improved products, and lower prices, there has never been a better time to see what's new at Fore-Par.

Universally recommended by golf course superintendents, Fore-Par combines modern materials with old-fashioned craftsmanship to create truly unique golf course accessories.

Choose from a full line of regular and personalized tee markers and practice green markers, our virtually indestructible Elasto Signs™ and of course, the original Tubular Swivel Flag.

Ask us about our Express Flags program; the highest quality screen printing in the industry with an unmatched speed of service.

For more information on the complete line of Fore-Par accessories, call 800 843-0809 today. Now is the time to see what's new at Fore-Par.

See what's new at the GCSAA Show Anaheim, CA • Feb 6-8 Booth 805

FORE-PAR

DISTINCTIVE GOLF COURSE ACCESSORIES

16761 Burke Lane, Huntington Beach, CA 92647
Tel: 714 842-8494 / 800 843-0809 • Fax: 714 842-7384

Stick to News.

Inexpensive
notion?

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

A UNITED PUBLICATION
VOLUME 8, NUMBER 4
APRIL 1996 • \$4.50

INSIDE

Upfront Prep

Dr. William Torello has ideas on sparing turf the effects of harsh winters. Start in the fall.....17

Sod Stock

High demand for sod stock.....53

COPY FRANK ON THIS!



ALL IN THE FAMILY
Robert Trent Jones Sr. (left) has teamed with elder son Bobby to form a new architectural entity, RTJ Golf Ventures. For story, see page 37.

COURSE MAINTENANCE

Sprinkler uniformity sought but not found.....17
New Chemistry: biologicals & nematodes.....20-21
Putting green research: Top 10 projects.....22

COURSE DEVELOPMENT

Morrish on family-accessible design.....23
What's doing in Asia-Pacific? Tons.....24
Elkington eyes niche in landscape/design.....25

COURSE MANAGEMENT

Meadowbrook stock offering aids expansion.....26
ClubLink dominates private Toronto market.....27
NGF unveils customized research service.....28

SUPPLIER BUSINESS

The Scotts Co. undergoes turnover at the top.....53
Kirtland buys Best Sand; FMI, Cactus merge.....54
State EPAs sign off on ProStar, Tupersan.....57

Image enhanced but golfers insist on 'green' look

By PETER BLAIS
ORLANDO, Fla. — Most golfers view superintendents as trained professionals and the person most responsible for course conditions — news course managers should find encouraging considering national efforts to elevate their image. Disturbingly, however, few golfers recognize the Golf Course Superintendents Association of America (GCSAA) as the superintendents' national organization. Also troubling was the unwillingness of most golfers to accept poorer playing conditions in exchange for reduced chemical and water use on their courses. According to a recent survey of golfers conducted by the National Golf Founda-

Continued on page 30

STUDY SHOWS:

Name designers pull higher dues and green fees

By PETER BLAIS
HARRISBURG, Pa. — Private courses designed by signature architects command higher initiation fees and monthly dues.

MAKE THE CALL!

Signature architects command higher initiation fees and monthly dues. The study is designed to help developers determine the potential benefit of hiring or not hiring a signature architect in specific markets, and perhaps the difference in hiring one signature architect over another.

Continued on page 3

Griffiths



Shinn Golf Club in Niigata, Japan, a new design from incoming ASGCA president, Denis Griffiths.

Ciba-Sandoz deal creates new firm: Novartis

By HAL PHILLIPS
Consolidation in the chemical trade continues apace, as Des Plaines, Ill.-based Sandoz Agro and Greensboro, N.C.-based Ciba — both divisions of enormous Swiss-owned pharmaceutical and life sciences conglomerates — have agreed to join forces, creating a \$6 billion agrichemical giant. The new entity will be known as Novartis. Bill Liles, head of Turf & Ornamentals in a second...

COPY & ROUTE

When readership is what you're buying with your advertising dollars,

Golf Course News delivers. Cover-to-cover, Golf Course News has the news your customers need to know.

To deliver your message, call Charles von Brecht, publisher.

(207) 846-0600 • Fax (207) 846-0657

United Publications, Inc. Providing the news in five markets: HME News, Gourmet News, Security Systems News, Golf Course News, Golf Course News International, Kitchenware News & Service News.

Doing the sprinkling while they tee it up

By TERRY BUCHEN

WICHITA, Kan. — Trying to keep a quality turfgrass surface on a driving range teeing ground has always been difficult, especially with a warm-season turfgrass that is overseeded with perennial ryegrass.

Brett Conrad, long-time superintendent at Wichita Country Club here has a unique concept to quickly grow in the new grass where once there were ugly divot scars: low-pressure sprinklers that do not disturb golfers.

"Our low- to medium-humidity and many days with a big blue sky throughout the year cause our driving range tee surface to dry out during the day," Conrad said. "We fill in our divots daily with fresh topsoil and perennial ryegrass seed and feed these areas with a starter fertilizer once a week to speed up recovery."

The tee surface used to have the traditional large overhead sprinkler system, and Conrad could not water the area during the day when golfers were present.

Because the practice tee is used frequently, Conrad met with first assistant superintendent Nancy Turner and second assistant and irrigation technician Dave Hogan to discuss how to modify the system so it could be watered anytime.

They rotate the tees, using bag racks



Terry Buchen photo

Golfers can still practice while the driving range tee is being irrigated.

as tee markers and roping off the areas that need watering. They move the ropes and bag racks toward the rear of the tee surface, so that divots will land on the areas that have already been used.

Hogan installed individual rows of Rainbird #1804 PRS sprinkler heads, operating them on individual station timers.

"These sprinklers operate on a consistent pressure of 30 PSI," Conrad said, "and we are able to water anytime during the day while the golfers are practicing with no interference to them.

So our grass seed germinates much faster. Our climate dictates that we must water throughout the day, or the seed will dry out and die."

He said the golfers hardly notice the small spray heads when they are being used and "our turnaround time is three weeks before each tee area can be used again."

"It is so nice to be able to irrigate each individual row totally independent of each other during the daylight hours while not bothering our members and their guests whatsoever," Conrad added.

North Carolina Show 'Going for the Green'

CHARLOTTE, N.C. — The Turfgrass Council of North Carolina will co-sponsor its 36th Annual Turfgrass Conference and Show on Jan. 7-9 at the Charlotte Convention Center.

"Going for the Green" is the theme of the conference, which features an educational program for turfgrass managers and a trade show.

Nine workshops and two days of educational sessions will deal with golf turf, lawn and landscape care, grounds maintenance, pesticide training and regulation, irrigation, sod production, sports turf management and business management. Workshops will be held Jan. 7 and educational sessions will be held Jan. 8 and 9.

The Golf Course Superintendents Association of America, Professional Lawn Care Association of America and the Irrigation Association will offer certified classes Jan. 6 and 7, respectively.

Terence M. McNabb, president of Resource Management, Inc., will present Lake and Aquatic Plant Management seminar. Jerry Gaeta of Vander Kooi & Associates will present: Managing Your Business for Greater Profit! He will present his experience in using the Vander Kooi Estimating and Management System.

For further information, contact Marsha Richardson at 910-695-1333.

DGE, Kansas City, MO • IMPERIAL LAKES, Lakeland, FL • SADDLE CREEK, Copperopolis, CA • BEACON RIDGE, Pinehurst, NC • ...

Portland, OR • ROBIN DALE GC, Washington, DC • SADDLE CREEK, Copperopolis, CA • BEACON RIDGE, Pinehurst, NC • ...

Thomas, USVI • PLUMAS PINE, St. Thomas, USVI • ...

FL • LAKEVILLE CC, Lakeville, MA • ...

Washington, DC • DESERT PINE, Palm Springs, CA • ...

DW, Cleveland, OH • TEAL B, ...

NH • SOUTH RIDING GC, ...

ESTNUT HILL GC, Buffalo, NY • ...

H CLUB GL, Ocean City, MD • ...

getown, MA • ROYAL MELBOURNE, Long Grove, IL • ...

ATCH GC, Atlanta, GA • FAIRFIELD NATIONAL, Washington, DC • ...

E, Kansas City, MO • IMPERIAL LAKES, Lakeland, FL • ...

and, OR • SADDLE CREEK, Copperopolis, CA • ...

CA • BEACON RIDGE, Pinehurst, NC • ...

DS, Lexington, KY • CROFTON CC, ...

ly Springs, MS • CC'S OF FOX MEA, ...

, Tuscon, AZ • SHATTUCK GC, Jaffr, ...

CC, Rochester, NY • CHELSEA, ...

MD • WHITTIER VIL, ...

LAKE OZARK, MO • LINKS GRC, ...

AL, Holly Springs, MS • CC'S OF FOX MEA, ...

SO GC, Tuscon, AZ • SHATTUCK GC, Jaffr, ...

as, NV • DEERFIELD GC, Rockledge, FL • ...

H RESORT, San Luis Obispo, CA • ...

CA • GEORGETOWN CC, Georgetown, MA • ...

GROUP, Myrtle Beach, NC • ...

FORSGATE CC, Monroe Twp., NJ • ...

WOODLAKE CC, Lakewood, NJ • ...

St. Thomas, USVI • PLUMAS PINE, St. Thomas, USVI • ...

MA • STRAWBERRY FARMS, Irvine, CA • ...

PERDIDO GC, Pensacola, FL • KIRKWOOD GC, Orlando, FL • ...

THE EAGLES GC, Tampa, FL • RANCH, ...

GC, Orlando, FL • BADLANDS GC, ...

CRYSTAL SPRINGS, Northern NJ • ...

angeles, CA • SEA RANCH GL, Sea Ranch, CA • ...

LAKE OZARK, MO • LINKS GRC, ...

\$75,000,000+ funded in 1995

\$100,000,000+ funded in 1996

\$125,000,000+ funded in 1997

NATIONS CREDIT

A NationsBank Company

Golf & Recreational Finance

Acquisition • Renovation • Refinance • Construction • Leasing • Mezzanine Loans

Take the uncertainty out of financing *your* next project, call...

Debbie Suppa
770-643-7788
Atlanta, GA

Rick Nekoroski
978-777-8560
Boston, MA

John Seeburger
714-442-4356
Irvine, CA

Don Rhodes
Managing Director

NEW TERRA · FERTILIZERS WITH GOLDCOTE™

As sure
as the sun
will rise

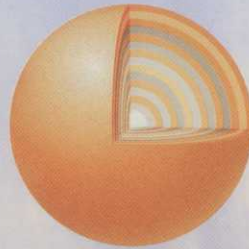
 **Terra**™

Predictable, Controlled Release

Predictability – that’s exactly what you want and need from a controlled-release fertilizer. And that’s exactly what Terra’s GoldCote™ polymer technology delivers.

Terra’s GoldCote nutrients are released based on soil temperature. As turf root activity and nutrient requirements increase with soil temperature – the release of nutrients from Terra’s new fertilizers with GoldCote also increases. Your turf has what it needs – when it needs it.

Plus, since temperature is the key, the GoldCote release rate is virtually constant for all levels of soil moisture, soil pH and microbial activity.



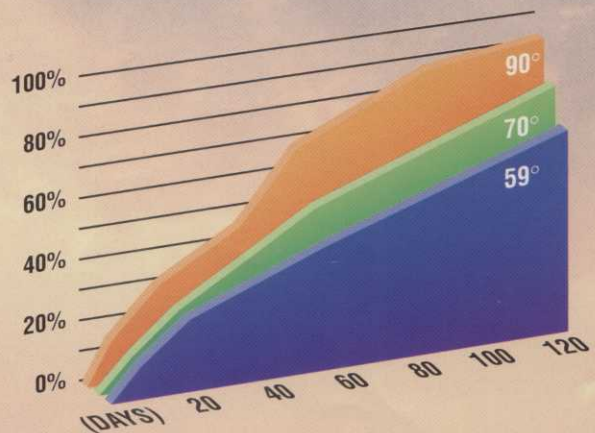
Here's how GoldCote works.

As the soil temperature increases, water vapor from the soil passes through the multiple coatings. The resulting condensation and pressure within the fertilizer granule causes a precise and predictable release of nutrients.

In fact, as this chart shows, nutrient release from Terra fertilizers with GoldCote can be accurately predicted based on temperature. That means you’ll get the performance you expect – when you expect it. You can count on it.

GoldCote Release Rates

% Released/Days/Soil Temperature



Consistent, Superior Nutrition

You know exactly what you want and what your course needs. From urea to monoammonium phosphate (MAP) to potassium nitrate, there's a Terra controlled-release fertilizer with GoldCote that will meet your demands.

And if you demand the best, Terra's potassium nitrate fertilizer with GoldCote is what you want. It provides a balance of potassium and nitrate nitrogen for good blade and root growth. Terra's potassium nitrate fertilizer with GoldCote:

- improves turf quality and color;
- promotes steady, consistent growth;
- eliminates growth spurts and fluctuations;
- minimizes waste and potential pollution caused by leaching and volatilization, and
- reduces the salinity and potential burn common with the use of many fertilizers.

One thing is as certain as you seeing the sun rise each morning – all Terra GoldCote fertilizers have been formulated with the highest quality nutrients and developed to deliver the results you want.

Fewer Applications

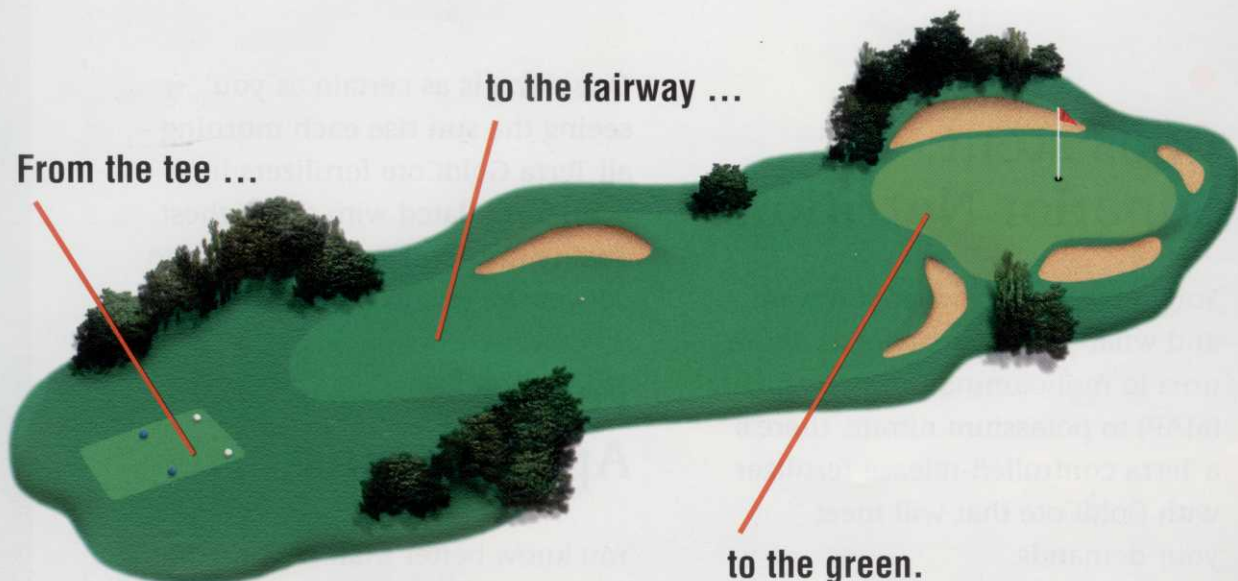
You know better than anyone that there's never enough time – or manpower – to do everything that you need to do. Terra GoldCote reduces the amount of application time your people have to spend compared to conventional fertilizers. Plus, consistent nutrition means consistent growth. There are no growth spurts. No fluctuations. And, as a result, no extra mowings. You can use your people where you really need them.



Talk to Terra about the entire line of fertilizers with GoldCote. You'll get predictable release and superior results with fewer applications.

You can count on it.

GoldCoteTM
FROM TERRA



There's a Terra fertilizer that's right for your course.

There's a Terra fertilizer that can help you grow healthy, green turf with a strong root system. Turf that's healthy and better able to fight disease, pests and everyday wear and tear.

At Terra you'll find a complete line of professional fertilizers with virtually everything that you need – including primary, secondary, micronutrient and pesticide packages. Plus, Terra's GoldCote technology now delivers consistent, high-quality nutrition with a predictable, controlled-release rate. Your turf gets the nutrients it needs ... when it needs them.

Plus, you can count on Terra for the support, service, assistance and expertise it takes to select and use the fertilizer that's right for your needs ... right for your course.



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

Working with you.

GoldCote
 FROM TERRA



On 'thin edge' with sand greens? Rieke presents nutrient strategy

By MARK LESLIE

COLUMBUS, Ohio — Declaring that superintendents “are on the thin edge” by putting high stress and low mowing heights on turfgrass, Dr. Paul Rieke proposed a nutrient strategy for sand greens.

Although unknowns abound concerning such things as micronutrients, and the impact of iron, manganese and fertility in general, the Michigan State University professor warned superintendents “you’d better know what’s in the ground.”

Soil and tissue tests are becoming staples in modern greenkeeping, helping superintendents control fertility, water, turf growth, thatch or pests, Rieke said during a session at the Ohio Turfgrass Conference and Show here.

“Sand greens are unique and must be controlled differently,” he said. And, he stressed, on many older courses where the top 2 to 3 inches are sand, the superintendents are actually managing sand greens during the colder months because the roots are often only growing in the sand.

“At that time,” he said, “you basically will be managing the greens fertilitywise as you would a sand green.”

“That’s when the roots are only in the sand layer, and the soil below is no longer impacting the plant,” Rieke added.

Rieke told superintendents tending sand putting greens:

- They need to be top dressing more in the spring and fall, when thatch accumulates, than during the summer.

- Higher phosphorus levels will not enhance poa annua (“I’ve seen no data to substantiate that claim.”)

- A rate of 30 pounds per acre is best for phosphorus, which is required for root growth.

- Surface application of phosphorus is as good as injection.

- During the first couple of years after establishment of turf, apply 6 to 8 pounds of nitrogen annually, including some organic sources with the application. Reduce the annual nitrogen as appropriate in subsequent years.

- Consider a late-fall application of nitrogen as part of the fertility program.

- On most sand greens, superintendents are not able to get by with less than 5 pounds of nitrogen a year.

- Follow soil tests for phosphorus levels, applying it throughout the season.

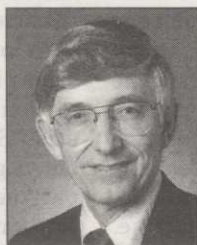
- Apply potash regularly at a rate related to the nitrogen rates.

- Use soil tests to determine the annual potassium needs for sandy loams and finer soils.

Spread potassium throughout the growing season.

- Monitor calcium based on pH and magnesium levels.

- Know what is in the irrigation water. (“You’re getting sulfur, calcium and magne-



Dr. Paul Rieke

sium from sources you don’t know,” he said.).

- Consider a micronutrient package, including high iron, some manganese, a little bit of zinc and copper. (“But watch your balance.”)

- Tissue testing is a

valuable tool. (“Make sure to shake the sand out of your sample because it will throw off the results big-time.”)

Rieke said more research needs to be done on micronutrients, iron, manganese, zinc and copper.

“Micronutrients? That is kind of a black box,” he said. “We don’t

really have any information on that. That work hasn’t been done... In micronutrients we’re dealing with a situation in which different sands will give you different responses...”

That is why he recommended

Continued on page 38

A Few Plugs For A Zoysiagrass That Doesn't Even Need Any.



Less Water.

Sunrise Brand seeded Zoysiagrass is exceptionally drought tolerant – requiring little or no watering in many areas.

More Wear and Tear.

In wear tests, Sunrise Brand seeded Zoysia far outlasts other warm-season varieties.



Sunrise Brand seeded Zoysiagrass from Jacklin Seed and International Seeds. It's everything you want from a Zoysiagrass. Without the plugs.

Less Maintenance.

Sunrise Brand seeded Zoysia needs infrequent mowing and little or no fertilizer to maintain its thick green appearance.



Seeded, Not Sprigged.

Sunrise Brand Zoysia is seeded. So you can have beautiful turf in weeks, instead of years from plugging.

JACKLIN SEED
A DIVISION OF J. R. SIMPLOT COMPANY

Come see us at booth #3577.

Jacklin Seed • 5300 W. Riverbend Ave., Post Falls, ID 83854-9499 USA
800 688-7333 • 208 773-7581 • Fax 208 773-4846



MEDALIST
AMERICAN
TURFGRASS SEED

Come see us at booth #1816.

Medalist America • 5300 W. Riverbend Ave., Post Falls, ID 83854-9499 USA
800 568-8873 • 208 773-2587 • Fax 208 777-7954

Genetic engineering: Patents a key

Continued from page 1

Meier explained that to succeed in genetic engineering, researchers need:

- a gene of interest, whether for its herbicide-, or disease-resistance or another trait;
- a way to put the gene into the plant cell — such as the gene gun, which has proven the easi-

est, fastest and surest method;

• a “promoter gene,” one which “turns on and off the main gene in the plant” — whether in the roots, leaves, flower, or seed; and

• a selectable marker gene, one with antibiotic resistance.

For instance, he said, in genetically engineering a certain

bentgrass cultivar, a company would deal with Scotts, which has exclusive rights to the gene gun for all turfgrasses; AgrEvo, which owns a herbicide-resistance gene and the selectable marker gene; and Monsanto, which owns the promoter gene.

Underlining the importance of owning the patent to any of the

parts of the whole, Meier pointed out that AgrEvo spent nearly \$1 billion to buy PGS, which owned the selectable marker gene.

“A lot of people have been involved in this research. It seems to double every year,” Meier said. “Some have found and patented genes and feel like they own them. And there are people who have invented the gene gun and other methods of technology that they have patented. The

promoter and selectable market genes are patented. When people patent things they want to keep them and to sell them.

“To come up with a new, fantastic variety you have to have all four parts. It so happens that different people own different parts, and each person or company feels their part is the most important. They feel they deserve most of the benefit from that new variety.”

Therefore, he said, the hardest part of genetic engineering is the negotiations to determine who gets what when a variety gets into the marketplace.

Meier predicted a lot of extensive genetic research. And this research circumvents much of the work inherent in standard plant breeding. “Somewhere in nature,” he said, “you find a gene that has a resistance to, say, dollar spot, and you can put that gene into a variety to improve it. As a result, you don’t have to test the cultivar as extensively as the other because you know the variety and you only have to test for the dollar spot resistance.”

He said the timeframe in developing a herbicide-resistant bentgrass and getting it into the market, for instance, will be a minimum of four years, or more likely six. New bluegrasses will be available in seven to eight years, he said.

“It takes three years to build up a seed supply,” he explained. “So, new varieties can be expected in two to three years, but not available for four to five years.”

The near-term potential of genetic engineering will include new grasses with herbicide-, insect- and disease-resistance — perhaps some coming from 18 genes in corn and cotton that might be used in turf.

In the long term, people are working on heat-, cold- and drought-tolerance; and grasses that require lower water use and less mowing, produce fewer clippings, use nutrients more efficiently and yield higher seed counts.

On the one hand, Meier said, genetic engineering will make it easier to grow better turf. “If you have herbicide resistance, you will be able to control all weeds instead of just a few,” he said. “You won’t have to worry about pre-emergent herbicide in the spring, or broad-leaf ditox in the summertime. You won’t have to worry about what time of year you spray, because it will be a non-selective herbicide except for the turfgrass variety that has resistance to it.

“When you get into disease



A slight adjustment.

Is your fertilizer falling short? Boost its performance by adding Toro® BioPro® with its unique soil conditioners to your regular fertilizer program. You’ll be amazed at how a simple organic addition enhances your turf’s overall performance. Plus, it’s an economical solution for many turf problems. Our nutrient injection system feeds your turf through your existing irrigation system. No fuss, no mess — and for a lot less than you spent on labor last month.

An enormous improvement.

Toro BioPro liquid, organic-based products provide essential nutrients for optimum growth by cultivating a stable, fertile, biologically active soil.



More superintendents nationwide are seeing significant improvements by using Toro BioPro liquid organic-based products, while saving time, money and labor. Use them to enhance the uptake of your current granular program, or convert to our complete line of nutrients for optimal results. Only Toro provides a variety of nutrient injection systems and a wide offering of liquid nutrients to meet your total fertilizer needs.

For more information, contact your Toro BioPro Distributor, or call: **1-800-448-9011**

A Toro nutrient injection pump can easily be installed to expand the capabilities of your existing irrigation system. You’ll be up and running in no time.



TORO.

It's about *playability*



The efficient and environmentally responsible solution.

www.toro.com/agronomics

©1998 The Toro Company, 8111 Lyndale Avenue South, Bloomington, MN 55420. All rights reserved.

Duncan: Mutual help in green industry

Continued from page 19

Duncan noted that the first day of the OTF conference was filled with joint sessions of the three disciplines, dealing with topics common to them all.

"It's a sign of the times," he said. "It's amazing what we [lawn-care industry] have learned from the golf course guys. We don't have structures of golf greens on lawns, but what they do filters down to us, and vice versa.

"Going into the 21st century, we will be learning more and more this way."

Saying the lawn-care industry is "constantly being thrown curve balls with regulations, such as composting and yard waste," Duncan added that ideas coming from the golf course industry have helped cope with the new rules.

Referring to the \$260,000 in grants and scholarships OTF donated to Ohio State University this year, he said he hopes to continue, and even improve, this performance, "especially with the addition of turf plots and new professors [recently added to the staff].

"We have more good reasons

to support their research," he added. "None of us individually has the funds, or the staff to do this research. We appreciate what OSU does for us."

The OTF function, Duncan said, is the research and technology of products and services. "We feel we are the education arm of all the other groups —

the golf course superintendent associations, Ohio Lawn-care Association and Professional Grounds Management Association. We feel they better serve their constituents in the administration and business aspects. What we're doing in gathering and disseminating information and research is the beauty about

the marriage. It's what makes the green industry in Ohio so successful. Both groups are very viable and important to all the people involved."

Duncan, who has been in the lawn-care industry since 1975 and started Evergreen Lawn Care in 1985, said extraordinary advances have been made in technology and the use of computers.

"These things will come more

naturally to the next generation," he said. "Some of us in this industry are dinosaurs. Look where we've come in the last 20 years, in the way we managed turf then and now. It is the difference between night and day. I can't imagine where we're going to be 20 years from today.

"It's exciting because what we're doing now is so much better for the environment, for our clients, and for the turf."

Answering All Your Concerns About Environment, Safety And Precision

SPRAY STAR 3000

- Powerful, quiet and highly maneuverable
- With four-cylinder water-cooled gasoline engine, two wheel hydrostatic drive and power steering
- Electric cruise control automatically maintains speed
- Impervious 300-gallon polyethelene tank
- Filtered-air cab, fresh water wash tank and operator safety switches



STAR SHIELD BOOM

- With advanced engineering for precise application and operator safety
- Aerodynamic design redirects air flow and minimizes drift, especially in windy conditions
- Three section breakaway boom, with tension adjustments and automatic fold by operator
- Separate wheels for each boom section to closely follow terrain
- Dripless nozzle TeeJet® tips and flow indicators
- Half the weight of other booms
- Easily retrofitted to most sprayers



SPRAY STAR 1600

- Ultra-low profile for maximum stability and top visibility
- With two-cylinder OHV gasoline engine and two-wheel drive
- Hydraulic power steering and braking
- Solid fiberglass 160-gallon tank with 5-year warranty
- Choice of electric or manual spray controls
- Wide array of safety features



Genetic engineering

Continued from previous page

and insect resistance you will have fewer dead spots ... less mowing, fewer clippings, and less irrigation."

On the other hand, he said, "more people will want finer turf. There will be more do-it-yourselfers in lawn care. There will be a higher demand for greens, tees and fairways, and for renovation of existing turf to new varieties."

Overall, he said, it should be easier to manage turf, "but it depends on what spectrum of turf-care management you are on. If you're on the professional end, you'd better know what the varieties are you are treating, and from that standpoint you will need more knowledge, more record-keeping, better communications with your crew, and able to keep up with a faster pace of advancing technology."

...

Market size is critical to pay for genetic research, Meier said.

"One of the concerns is, if you find a fantastic gene for herbicide or disease resistance, do you have a plant that is going to be harder to control?" he said. "Who knows, if it is disease-resistant, is it going to grow wild and take over [tracts of land]? The USDA [U.S. Department of Agriculture] controls the release of transgenic organisms and this is one criteria it looks at."

YOUR SMITHCO DISTRIBUTOR
HAS ALL OF THE ANSWERS
FOR BETTER, SAFER SPRAYING

ALWAYS OUT FRONT
SMITHCO
WAYNE, PENNSYLVANIA 19087

Visit Us In Exhibit #1510 at the GCSAA Show

Boehm: Much to learn in bio-ecology

Continued from page 33

sound chemistry — whether it's synthetic or from a natural origin — and to better understand and increase the use of biologicals.”

Composts add nutrients and micro-organisms to soil that have been shown to control or counter pathogens, he said. The focus of

research at OSU and other universities is understanding how and why diseases are suppressed.

“We know that if you increase the nitrogen level on turf you can suppress dollar spot nearly 60 percent,” Boehm said. “But there are still lots of issues. Is the nitrogen in the form we are

applying it directly toxic to the pathogen? Or is the nitrogen giving the plant the ability to out-grow the pathogen? Or is the nitrogen somehow changing the physiology of the host, thereby making it less susceptible?”

“Those are all very valid questions that we'd like to address.”

From a plant pathologist's perspective, he said, mechanisms of biocontrol are:

- competition between the biological control agent, or the organism that is suppressing the pathogen for space or nutrients;
- antibiotic production, since the biological control agent produces antibiotics that are toxic to the pathogen;
- hyperparasitism, wherein the biocontrol agent uses the pathogen as a food base or energy source; and

induced resistance — “an area,” Boehm said, “we don't understand very well, but the presence of these beneficial organisms brings about a physiological, or biochemical change in the plant that renders the plant resistant.” He likened this to spraying Crenshaw bentgrass, which is prone to dollar spot, with a chemical and finding it is resistant to dollar spot.

Boehm released some findings from a compost study that is in its second year.

Asking what a single application of compost does to the turf, he said it gives the turf “a huge swell in growth and clipping yield. Depending on what kind of compost you use, that lasts anywhere from six to 10 weeks. If an epidemic occurs during that period of enhanced nitrogen fertility, we see a significant decrease in the amount of dollar spot. If, however, like last summer, we make our compost application in May — even though we get nice fertility and greening effect on the turf ... we did not see any appreciable effect on disease management.”

The OSU professor hopes to discover the effect of continued use of compost top dressing incorporated in spring and fall, along with spring and fall aeration, over a four-year period.

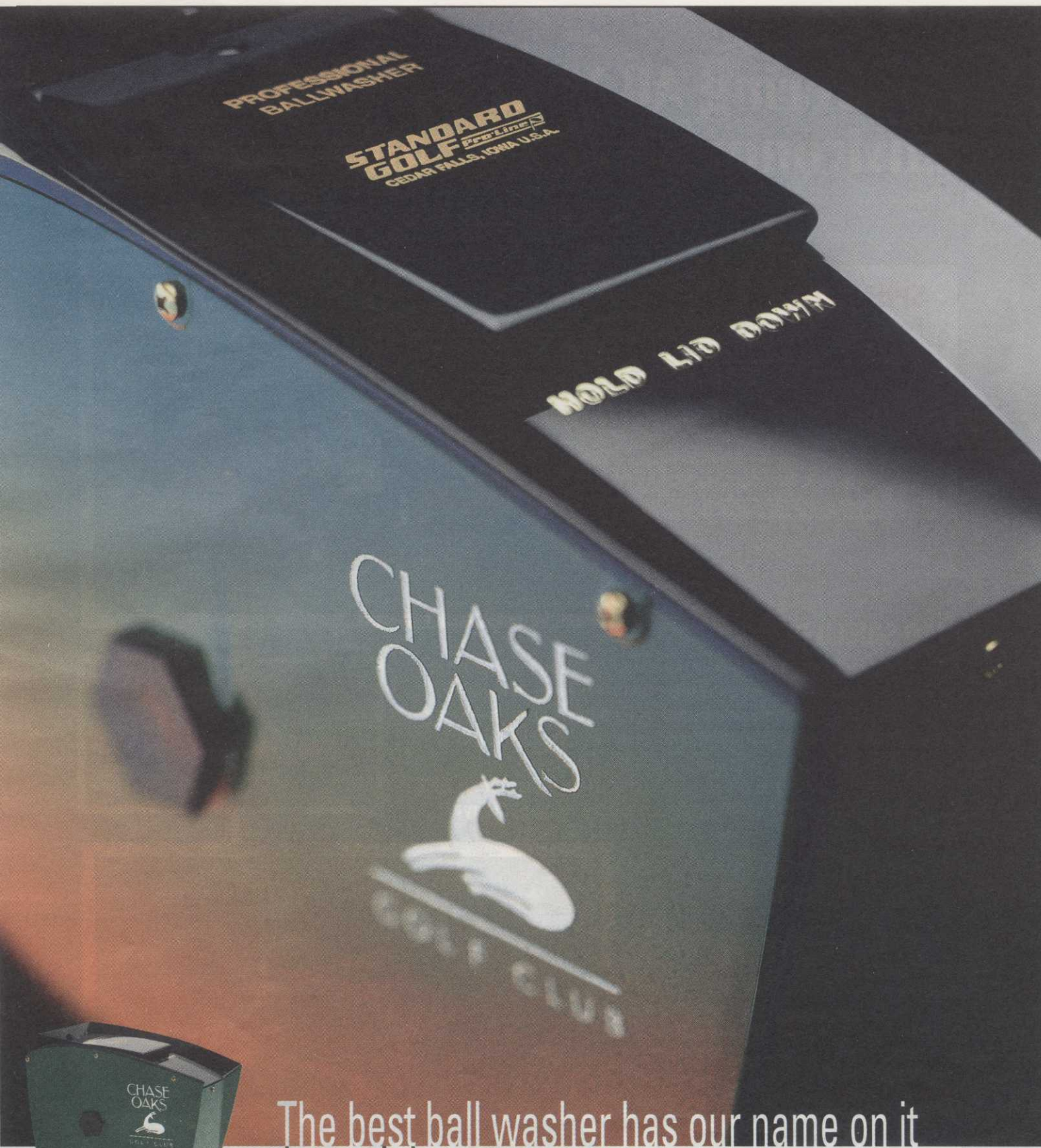
He mentioned studies at Cornell University by Dr. Eric Nelson, in which compost top dressing has suppressed pythium root diseases in sand putting greens.

In one his own projects, Boehm has established bentgrass greens to compare compost and peat in the root-zone mixes.

“It's a pretty striking difference when you look below the ground,” he said, adding that, while using take-all patch as a test pathogen, he found that compost was good, peat was not.

Speaking of the U.S. Golf Association Green Section's greens construction specifications, Boehm said he would like to see, over the next several years, a section incorporated on the pros and cons of altering the organic matter in the root-zone mix from a biological and microbial standpoint.

“It might take another 20 years before we're ready to do that,” he admitted, adding, “We are isolating lots of organisms, adding organisms, challenging the systems in the field and in the greenhouse, and trying to get a better handle on microbial populations that affect disease suppression.”



The best ball washer has our name on it and now it has yours.

Order nine or more Standard Golf ball washers and you'll receive **FREE** one-color laser engraving of your club logo. Head-to-head tests have shown that players prefer the Standard Golf ball washer because the crank action is easy to use, splatter-free and washes four balls at once. You'll appreciate its leak-free durability and easy maintenance. And be sure to compare prices. Standard Golf is still your best ball washer value, and now it's personalized for **FREE**.

Talk to your Standard Golf distributor today. Or call 1-319-266-2638 for more information.

STANDARD GOLF COMPANY
Cedar Falls, Iowa USA

Biologicals & biorationals: An emerging world in turf

By MARK LESLIE

COLUMBUS, Ohio — You may not find the “neem tree” in your dictionary. Nor the words “biorationals” and “naturalites.” But they will be playing increasingly important roles in golf course maintenance, according to Dr. Parwinder Grewal, an assistant professor of turfgrass entomology for the Ohio State University (OSU) Extension Service.

Speaking at the Ohio Turfgrass Foundation Conference here, Grewal said some biological controls have succeeded and some have not, but their use has increased tremendously in the last decade — a harbinger of the future.

Piecing together research from OSU, Cornell University and other colleges, Grewal updated the audience on research done on biologicals and biorationals. He defined biological control as the use of a living organism — such as insect-pathogenic nematodes, bacteria or fungi — to control a pest insect.

Biorationals — a new word in golf course lexicon — are products of natural origin that are safe to non-target organisms. The Environmental Protection Agency calls them pesticides with different modes of action than conventional pesticides, with higher selectivity and lower risks to humans and wildlife.

Researchers are delving into these fields in response to concerns about human health and safety, environmental and ground-water contamination, and the impact of chemicals on wildlife, fish and beneficial organisms.

Biorationals include botanicals, microbial elements and synthetic chemicals with alternative modes of action.

Grewal spelled out various findings of research into biologicals, including:

- Nematodes of the genera *steinernema* and *heterorhabditis* fight armyworms, webworms, black cutworms and white grubs that feed near the surface. They can become part of the environment if not exposed to toxins.

- The fungi *beauveria bassiana* infects chinch bugs under hot, humid weather. The product, named Naturalis-T, had limited success in 1997 trials.

- The bacteria *bacillus popilliae* (the milky disease) is a natural pathogen of white grubs. It is highly specific and different strains infect different grub species. Infected grubs die in a month. The products are Doom, Japidemic and Milky Spore. Grewal said the quality of current products is questionable.

Among biorationals, Grewal said:

- Of the microbial derivatives, *cacillus thuringiensis deltu endotoxin* is the most widely used microbial insecticide on the urban landscape. New products with encapsulated toxins have become available, Grewal said, and research is continuing to incorporate *delta endotoxin* genes.

The *buibui* strain of *bacillus thuringiensis* variety *japoneensis* provides excellent control of the Japanese beetle and white grubs.

- Naturalites — a new class of insecticides — are active on lepidoptera, diptera, hymenoptera, siphonoptera and thysanoptera.

- Conserve SC, a product from the microbial derivative

spinosad, has performed well against cutworms, armyworms and sod webworms.

- DiTerra, a new biological nematicide, has not been tested yet at OSU, but is “widely accepted for turf nematodes.”

- Among plant derivatives, *azadirachtin*, from the neem tree, acts as a growth regulator

and as a feeding deterrent to some insects.

- Of the phenyl pyrazoles, Fipronil is effective against mole crickets and fire ants. The product: Chipco Choice.

- The product Merit, from



Continued on page 38

A TURF HERBICIDE



YOU CAN LIVE WITH

As a golf course professional, it's your responsibility to make the right choices. Right for the turf, and for the people who enjoy it. One way to meet that responsibility is with Dimension® turf herbicide.

Dimension provides season-long control of crabgrass and over 20 other tough grasses and weeds, with excellent safety on established turf. And Dimension does it without staining, or harming

adjacent ornamentals. That means no more weed “fringes,” because you can apply Dimension with confidence right up to the turf's edge, even around walks, drives, and landscaping.

Dimension's low use rates and favorable environmental profile mean less worry. The active ingredient features very low toxicity to mammals, birds, and insects. Plus it bonds to soil particles instead of leaching into groundwater.

Dimension offers the widest application window—6 weeks more than other preemergence products. That lets you delay application for optimum control of goosegrass and other weeds. And split applications can stretch control even further for areas with long growing seasons. It all adds up to a turf herbicide that only weeds find hard to live with.

Call 1-800-987-0467 or visit us at www.dimensionpro.com to learn more.



ALWAYS READ AND FOLLOW LABEL DIRECTIONS.
DIMENSION® is a registered trademark of Rohm and Haas Company.
©1997 Rohm and Haas T-O-227



Panel on disabled scheduled for GCSAA Conference and Show

By Bob Spiwak

The Golf Course Superintendents Association of America (GCSAA) has scheduled a round table discussion entitled "The Americans with Disabilities Act (ADA) and Golf Courses" for its February convocation in Anaheim, Calif.

Set for 2-5 p.m. on Friday, Feb. 6, the panel will include Greg Jones, president of The Association of Disabled American Golf-

ers; Jerry Coldiron, superintendent at Lassing Pointe Golf Course in Kentucky; and Peggy Greenwell of the U.S. Department of Justice.

According to Cynthia Kelly Smith, government relations counsel for GCSAA, several

other participants have been invited. Smith said that she gets a call each week from a superintendent somewhere about the ADA.

The GCSAA convention program notes, "This government relations program will feature

a panel of experts discussing the ADA and its impact on golf...compliance issues, case studies, advice on handling complaints and the status of the government's draft golf access guidelines are a few of the topics that will be covered

in this interactive, topical session."

Smith noted that the ADA involves not only superintendents, but architects, the rules of golf, and the way golf is played.

"More superintendents need to be aware (of ADA ramifications) and they need answers," he said. "We are hoping to work with the disabled community and we all agree this [forum] will be a good way."

Biologicals and biorationals are emerging

Continued from page 37

chloronicofinyls imidadoprid, is very effective as a broad-spectrum, long-residual insecticide.

- The *halofenzide* Mach 2, a molt-accelerating compound, gives excellent control of white grubs, billbugs and beetles.

The synergism between the Cruiser nematode and Merit (used at 1/10th the recommended rate) provides 100-percent control of Japanese beetle grubs, Grewal said.

Grewal warned that *fipronal* had an adverse effect on the natural population of nematodes.

The OSU professor said more work needs to be done in a number of areas, especially on fungi and bacteria biologicals as well as to develop products to control white grubs.

"We need to try to understand the naturally occurring biocontrols that are already there and easy to establish... They save water, the environment, money and much more," Grewal said.

Rieke: Are your roots in sand?

Continued from page 33

a micronutrient package.

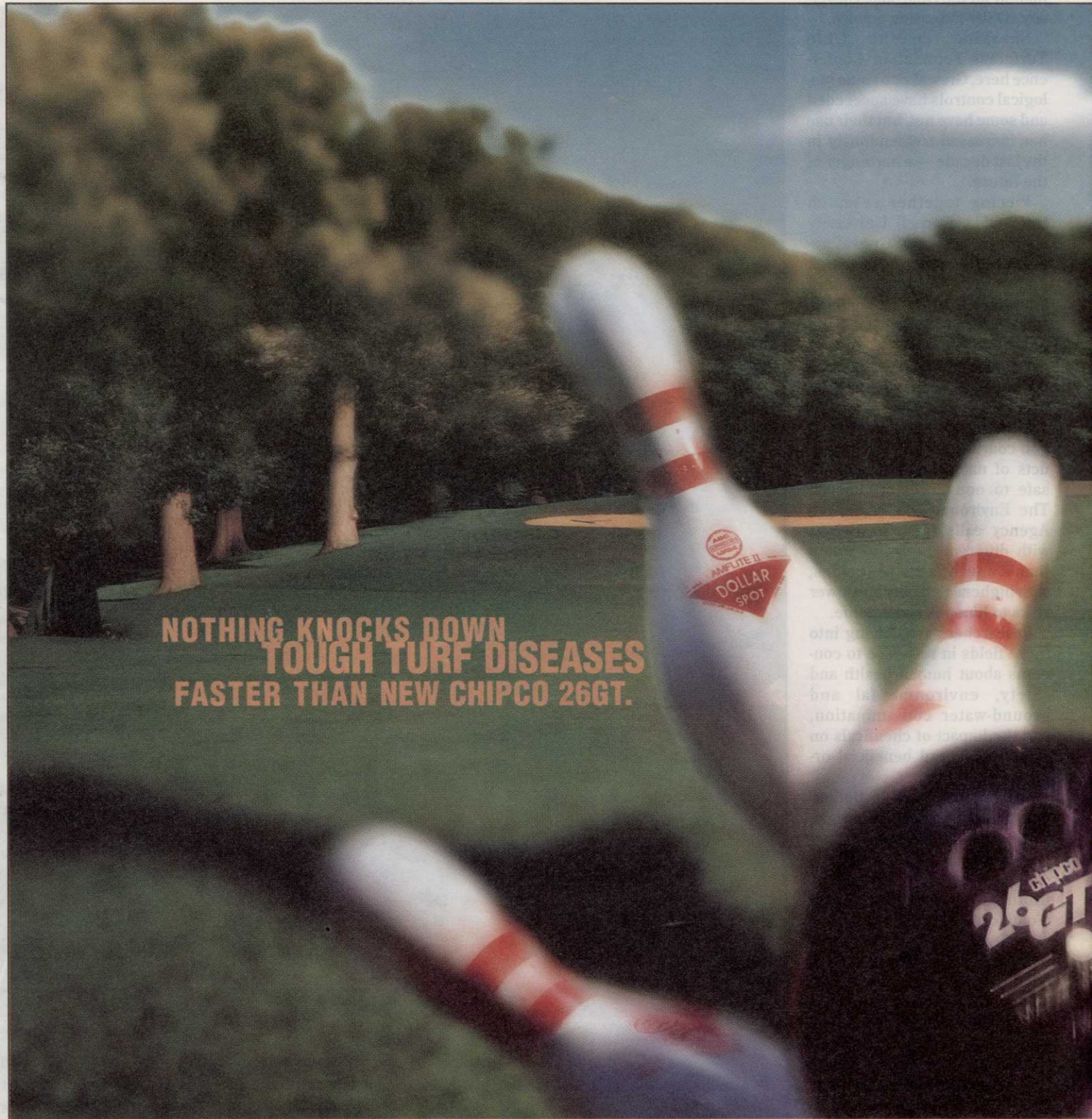
He suggested that superintendents look at soil-ratio tests. Calcium (Ca) should have a 60- to 85-percent saturation in soil test reports, magnesium (Mg) 8 to 12 percent and potassium (K) 5 to 8 percent.

The ratios, Rieke said, should be less than 6.5:1 for Ca:Mg; less than 13:1 for Ca:K; and less than 2:1 for Mg:K.

"Are we overfertilizing?" Rieke asked. "Maybe we are."

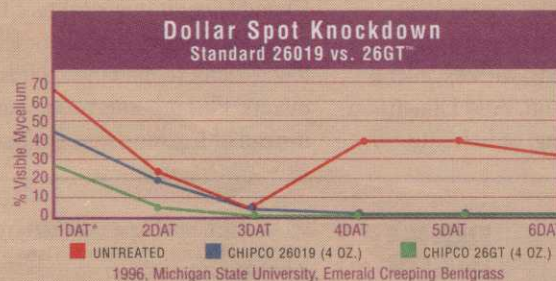
He said granular fertilizer should be applied to sand greens in the spring and fall, including some slow-release material; and the turf should be spoon-fed during prime playing season, using mostly soluble fertilizer with sprays through the irrigation system.

Finally, he said superintendents should "do all you can to get oxygen into the soil," adding that is an important factor that has been overlooked.



NOTHING KNOCKS DOWN TOUGH TURF DISEASES FASTER THAN NEW CHIPCO 26GT.

For years, you've relied on CHIPCO® 26019 brand fungicide to deliver the best brown patch and dollar spot control available.



But, sometimes, when soaring summer temperatures made you feel the heat, you've turned to contact materials to give you the quick disease knockdown you need. Now, you can get the same powerful, long-lasting disease control you've come to expect from CHIPCO® 26019, plus the quick knockdown you demand. Introducing new CHIPCO® 26GT™. • University trials prove that new CHIPCO® 26GT™ provides consistently quicker knockdown of dollar spot and brown

ADA decision from the super's view

Continued from page 1

Coldiron, 41, also oversees the county's other course, Boone Links, 11 miles away.

Lassing Pointe was recently involved in a situation involving a golfer, Don Duckworth, who requested, but was denied permission to deviate from the path in his golf car because of a heart

condition which precluded walking on hilly terrain. (GCN-Nov. 1997.) His complaint with the Justice Department, under ADA, led to the course allowing him off the path in 1998. Lassing Pointe, which opened in 1994, had refused because the turf was not yet seasoned.

Coldiron feels that when the

ADA was passed in 1991, golf cars were probably not a consideration. "The law," he says, "was never meant to allow a golfer to drive to his ball."

Obviously, the Justice Department, through the National Park Service of the Department of Interior, disagreed when it pressured Lassing Pointe on behalf

of the golfer last fall.

Interpretation of the law is the bugaboo which bothers Coldiron. "Just what is a disability?" he asks. "We asked three federal agencies and got three different answers. I have had two surgeries on my knees, and I know my doctor would [proclaim] I had a disability if I asked."

"My livelihood depends on

RELATED STORY, PAGE 38

the condition of the course," he states emphatically. "With Mr. Duckworth going off the path, I am going to have to deal with more golfers off the paths next year. Will they all be disabled?"

Lassing Pointe's insistence on no deviation from the paths is based on the threat to its new turf. According to Coldiron, a study by Dr. Robert Carrow of the University of Georgia proves that golf cars indeed injure turf, especially in its early years. Asked if occasional deviation by a golf car was any more injurious than daily traffic of mowers and utility vehicles, Coldiron replied that the latter are operated by trained operators and that the vehicles have flotation tires. "Driving a golf car on wet turf can be disastrous," he said, "and he [Duckworth] would not be the only golfer who would deviate."

Greg Jones, president of the Association of Disabled American Golfers concurs. He says, "The big problem [of allowing deviation] is going to be that a lot of able-bodied golfers will take advantage of a handicapped person's special access."

"We're all for the disabled being allowed to play," states Coldiron, "and looking at the big picture, this is not a Duckworth issue. One cart is not going to make that much difference, but the precedent it will set certainly does ... The ADA laws were not adopted by Congress as they pertain to golf. And this places an undue burden on me and others [superintendents] to provide a top-quality course." (Lassing Pointe was named the top public facility in Kentucky.)

The effects of weather and safety conditions for the disabled is another concern. What happens on a wet course where able-bodied golfers' stances cannot safely be duplicated by the handicapped? "What happens," asks Coldiron, "if the disabled make waves about this?"

Coldiron noted another burden placed on golfing venues: The disabled have the might and power of the government behind them at no cost, and even if the complaint might be frivolous, the courses may have to hire legal counsel to prove their cases.

As the amount of litigation based upon golfers' disabilities is sure to increase, pressure on courses and superintendents will likewise grow. There appear to be no easy answers, and, as each disability is unique, rulings and accommodations will likely be arbitrated on a case-by-case basis.

For all concerned, it is not going to be a walk in the park.



patch than the standard CHIPCO® 26019 • In fact, CHIPCO® 26GT™ was as much as 48 hours faster. That means you'll see activity against disease mycelium within just 24 hours after application. And that means faster turf recovery.

You can also count on CHIPCO® 26GT™ to give you both preventative and curative activity against dollar spot and

Brown Patch Knockdown Chipco® 26GT™			
	0DAY*	1DAT	2DAT
UNTREATED	PRESENT	PRESENT	PRESENT
CHIPCO®26GT™	PRESENT	NONE	NONE

brown patch. • Best of all, new CHIPCO® 26GT™ gives you the same powerful, broad-spectrum, long-lasting disease control you've come to expect from CHIPCO® 26019. Now you don't have to sacrifice quality and duration for quickness.

You get them all with new CHIPCO® 26GT™.



*0DAY = Spray applied; DAT = Day(s) After Treatment
1996, Ohio State University, Penncross Bentgrass

Keeping super position visible Renault's challenge

By PETER BLAIS

Incoming Golf Course Superintendents Association of America President George Renault is no stranger to the members of the international organization.

The head superintendent at Burning Tree Club in Bethesda, Md., is a 20-year GCSAA member and has been a national director since 1993. He served on numerous committees and as vice president for the past year. The 49-year-old father of two will replace Paul McGinnis as the organization's leader during February's International Conference and Show in Anaheim, Calif.

Renault said the biggest change he's seen since first becoming a national director five years ago is the board's increased accountability to its membership.

"We instituted the committee processes and got member input from the process," he said. "Everything we do is under scrutiny back to the members. We have an open dialogue between the national and local chapters and from the chapters down to the members."

Renault praised current President Paul McGinnis as having done "an outstanding job. His theme is that he is the bridge between the prior boards and the current board. He's not just a bridge, he's a rock, and a good solidifier. He has a good perspective and open mind. He's a good friend and a good worker, too."

Renault said the major accomplishments during the McGinnis administration have been formation of the Member Standards Resource Group; progress on environmental concerns; and enhancement of the headquarters staff and business activities.

The incoming president said his biggest challenge will be keeping the superintendent's profession as visible as it has become in recent years. "The more we get involved, the more we are in demand to perform additional duties," he said. "That's not a burden, it's just an additional challenge we have to meet."

Renault has traveled extensively as vice president, meeting with fellow superintendents and leaders of other golf industry organizations. "The allied associations enjoy seeing our involvement at these other functions," he noted. "I am amazed at the type of respect the GCSAA receives as a whole. Our message is getting out there and we are making inroads. I've noticed a big difference in the past four years. It's a combination of a lot of things, but in particular how we do business."

According to Renault, GCSAA required all its local and state chapters to meet certain criteria and sign reaffiliation agreements

by Dec. 31, 1997, or lose their affiliation with the national organization. Only eight chapters that were expected to remain in the fold had not completed their paperwork as of mid-November, he explained. Renault said all should either have their reaffiliation approved by the Dec. 31 deadline or would become

international chapters.

Renault said the organization will have lost 13 chapters, down from 113 to an even 100, resulting from the reaffiliation process. Most were turfgrass or international associations that don't have the correct board of director composition [enough certified superintendents], he said.

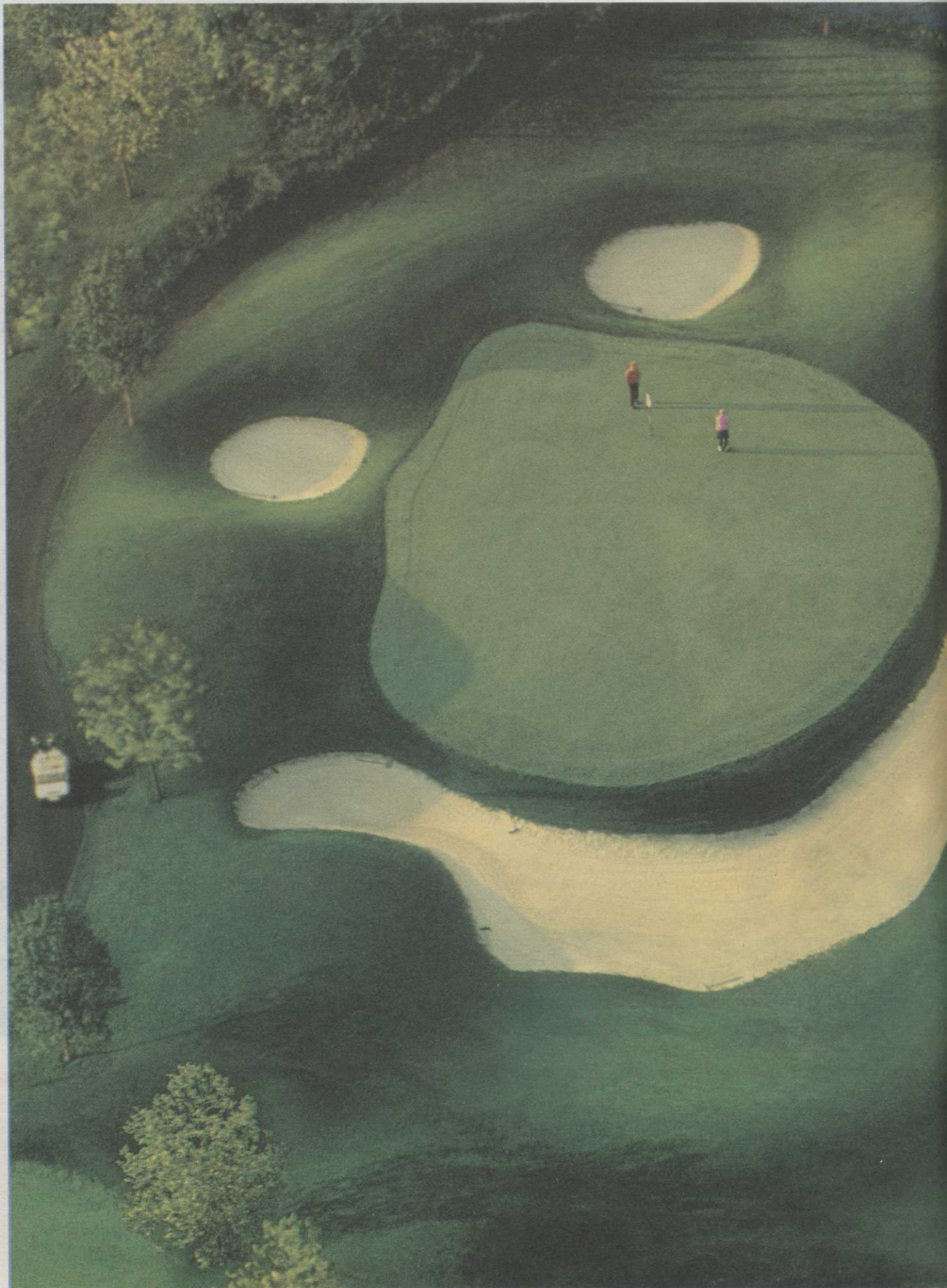
Those superintendents who were members of chapters that lost their GCSAA affiliation were likely also members of an association that is still affiliated with GCSAA, or should have access to one that remains affiliated, Renault added.

"We want to continue to grow," Renault said in reference to his upcoming year in office. "The hard decisions will be deciding

what programs to abandon. As you grow, if you want to continue offering new programs you have to abandon those that aren't successful, or aren't viewed as successful, or aren't up to current times."

Asked about balancing the responsibilities of being GCSAA president with obligations to his home club and family, Renault

Continued on page 43



Suess looks to defend supers championship

ANAHEIM, Calif. — The breathtakingly scenic Pelican Hill Golf Club overlooking the Pacific Ocean features two of the six Southern California golf courses that will host the 1998 GCSAA Golf Championship, a highlight of the annual gathering of golf course superintendents from around the world.

The tournament, part of the 69th International Golf Course Conference and Show, will be held Feb. 2-3. For the fourth consecutive year, The Toro Co. is a co-sponsor of the event. The field is limited to 720 entries.

Defending champion Michael Suess, superintendent at the Wood-bridge Golf Links in Kings

Mountain, N.C., will head up of a field of as many as 700 golfers who will be divided into several flights based on handicaps. Suess won the 1997 tournament in Las Vegas in dramatic fashion, holing a 15-foot birdie putt on the final hole at Sunrise Country Club's Hawk Course to edge out Bill Martin, superintendent

at Marbella Golf & County Club in Hemet, Calif., by a single stroke. Todd Barker, the 1995 GCSAA champion and superintendent at Fore Lakes Golf Course in Taylorsville, Utah, finished third just two strokes back of Suess. In a classic finish, Suess, Martin and Barker were tied with two holes to play. Defending chapter team winners are Carolinas "A" team in gross

and California No. 7 net.

Tournament activities start with practice rounds on Friday and Saturday, Jan. 30-31, with a four-ball championship on Sunday, Feb. 1. For the first time, awards will be handed out in both two-person and four-person teams in the four-ball event. A welcoming reception will follow the four-ball in the evening and post-round 19th hole receptions will be held each night of tourney play. Official tourney play gets underway, Monday, Feb. 2, with different flights playing at different courses.

Following is a brief rundown on the courses that will host the 1998 GCSAA Golf Championship:

— **Cypress Golf Club** (host superintendent, Pat Gradoville/course rating 72.7, slope 140). Cypress Golf Club is a 6,510-yard par-71 high-end daily-fee layout designed by Perry Dye and featuring a natural look, severe mounding and water hazards. The sloping, undulating course was opened in 1992 on the site of an abandoned park-style golf course. Buffalograss and other low-maintenance native grasses make up rough areas. Of more than passing interest, a certain young phenom named Tiger Woods lived near the course while in high school and played here regularly. Woods holds the course record with a 63.

— **Dove Canyon Country Club** (host superintendent, Eric Lover/course rating 75, slope 140). Set in a canyon near the base of Saddleback Mountain, Dove Canyon is a Jack Nicklaus signature-design golf course that's part of a 850-acre upscale development. The par-71, 6,902-yard layout sits adjacent to Cleveland National Forest and the Audubon Society Nature Sanctuary, which provides a rich natural setting full of wildlife (mountain lions, bobcats, coyotes, blacktailed deer), a waterfall, canyon features and native plants and trees. Dove Canyon features some tough carry shots and the course overall puts a premium on good golf management skills — a real "keep the ball in play" challenge.

— **Pelican Hill Golf Club** (host superintendent, Juan Franco Silva)

The Ocean North Course (course rating 71.7, slope 129)

One of two Tom Fazio-designed ultra-high-end daily-fee championship courses at this gorgeous California coastline venue. Both The Ocean North and The Ocean South courses were built among a series of coastal plateaus and canyons. The Ocean North course is a par-71, 6,656-yard links layout peppered with California coastal scrub. Generous fairways. Stunning scenery.

The Ocean South Course

Continued on page 44

*Is it just us, or
does a course without dollar
spot seem like a much
happier place?*

Remember, BAYLETON® Fungicide is still the most trusted dollar spot control and tank-mix partner around. So after being cursed at, walked on and beaten with clubs every day, your course can still be beaming. For more information, contact Bayer Corporation, Garden & Professional Care, Box 4913, Kansas City, MO 64120. (800) 842-8020. <http://usagri.bayer.com>



ALWAYS READ AND FOLLOW LABEL DIRECTIONS
© 1998 Bayer Corporation. Printed in U.S.A. 98S10A0065-1

GCSAA candidates at a glance

PRESIDENT

Name: George Renault

Age: 49

Course: Burning Tree Club, Bethesda, Md.

Former head superintendent at: Chevy Chase (Md.) Club; Penderbrook Golf Club, Fairfax, Va.; Goose Creek Country Club, Leesburg, Va.

Years GCSAA member: 20

GCSAA posts: Board of director member since 1993; chairman of tournament, scholarship, chapter relations, career development, certification and government relations committees; vice chairman of publications/TRAC, industry advisory council, membership standards resource group, scholarship and research, and chapter relations committees; eight-year voting delegate; member of federal Americans with Disabilities Act Golf Advisory Commission,



George Renault

Watson Fellowship Selection Committee and Responsible Industry for a Sound Environment [RISE] government issues committee.

Other associations: Past president of the Mid-Atlantic Association of Golf Course Superintendents and Greater Washington Golf Course Superintendents Association; past member University of Maryland Turf Advisory Committee and Maryland Turfgrass Council advisory committee; member of Maryland and Virginia turfgrass councils.

Education: Certificate in golf and turfgrass management, University of Maryland.

Family: Wife, Lucinda; children, George, 20, Lucy, 16.

Goal: "It's my way to return something to the profession that's been so good to me."

VICE PRESIDENT

Name: David Fearis

Age: 51

Course: Blue Hills Country Club, Kansas City, Mo.

Former head superintendent at: Country Club of Peoria (Ill.); technical representative for O.M. Scotts Company for 4 years.

Years GCSAA member: 30

GCSAA posts: Board of director member since 1993; currently secretary/treasurer; chairman of the government relations, industry partners, research, certification, information services, education, public relations and curriculum review resource committees; vice chairman of the conference and show, certification, government relations and technical information resource committees; International Conference and Show speaker and session chairman; member of finance, public golf resource, association planning, magazine, ethics, nominating, standards and integrated pest management committees; charter and lifetime member of the Golden Tee Club.

Other associations: Past president Central Illinois GCSA, Heart of America GCSA and Illinois Turfgrass Foundation; director Midwest Regional Turf Foundation; member Missouri Valley Turfgrass



Dave Fearis

Association, Midwest Turf Foundation and Kansas Turfgrass Foundation.

Education: B.S. in agronomy, Purdue University.

Family: Wife, Lynn; children, Blaise, 18.

Goal: "We are moving up, but we still have a ways to go. We've got the four mandates. *Chapter relations*, and I feel we've done real well with that with the affiliation agreement; the meeting [with chapter representatives] in September; the chapters feeling a part of GCSAA; and GCSAA feeling a great benefit from that relationship. The *environment*, which is ongoing and where we've made great strides. We've done very well with [im-

proving the superintendent's professional] *image*. And the newest one, *job security*. That's a toughie that we've brought on ourselves. We've raised the conditions at these courses so high that golfers have come to expect what we've given them. They expect almost perfect conditions year after year. They forget that we are dealing with Mother Nature and Mother Nature throws curves. If I had a singular goal, that would be it — employer/influential golfer education. The better they understand our job, the better off we'll be in terms of job security.

BOARD MEMBER

Name: Joseph Emanuel

Age: 44

Course: Hurstbourne Country Club, Louisville, Ky.

Former head superintendent at: Lexington (Ky.) Country Club; Tantallon Country Club, Fort Washington, Md.

Years GCSAA member: 22

GCSAA posts: Member of membership, chapter relations and education committees; Bluegrass Golf Course Superintendents Association chapter delegate since 1989.

Other associations: Past president of Bluegrass GCSA; director of Kentuckiana GCSA; director of Kentucky Turf Council; member of Mid-Atlantic GCSA; member of Ohio Turf Foundation.

Education: Associate's degree in turfgrass and golf course management from University of Maryland.

Family: Wife, Peggy; children Allison, 19, Dennis, 15.

Goal: "I have been heavily involved in local and state associations throughout my career. Working on national committees I've gotten a flavor of the association. I want to give back to the industry, promoting the image and profession of the golf course superintendent."



Joseph Emanuel

Name: Jon Maddern

Age: 39

Course: Elk Ridge GC, Atlanta, Mich.

Former head superintendent at: Golf grounds and park superintendent at City of Farmington Hills, Mich.; Hillcrest Country Club in Mt. Clemens, Mich.

Years GCSAA member: 21

GCSAA posts held: Member of GCSAA education, government relations and elections committees; chapter delegate.

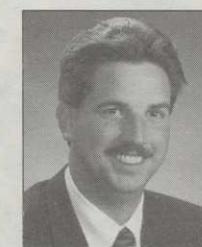
Other associations: Immediate past President of Michigan Turfgrass Foundation; secretary/treasurer of

Northern Michigan Turf Managers Association; past secretary/treasurer of Greater Detroit GCSA; member of Western Michigan GCSA and Golf Association of Michigan; board of director member of the Michigan Golf Foundation.

Education: Certificate in Turfgrass Management, Michigan State University.

Family: Wife, Bev; children, Brad, 15, Heather, 11.

Goal: "To represent all superintendents, but especially those in golf's largest growth area — public, daily-fee and resort operations — and to help lead GCSAA into the next millennium."



Jon Maddern

OUR IMPROVEMENTS AREN'T COSMETIC

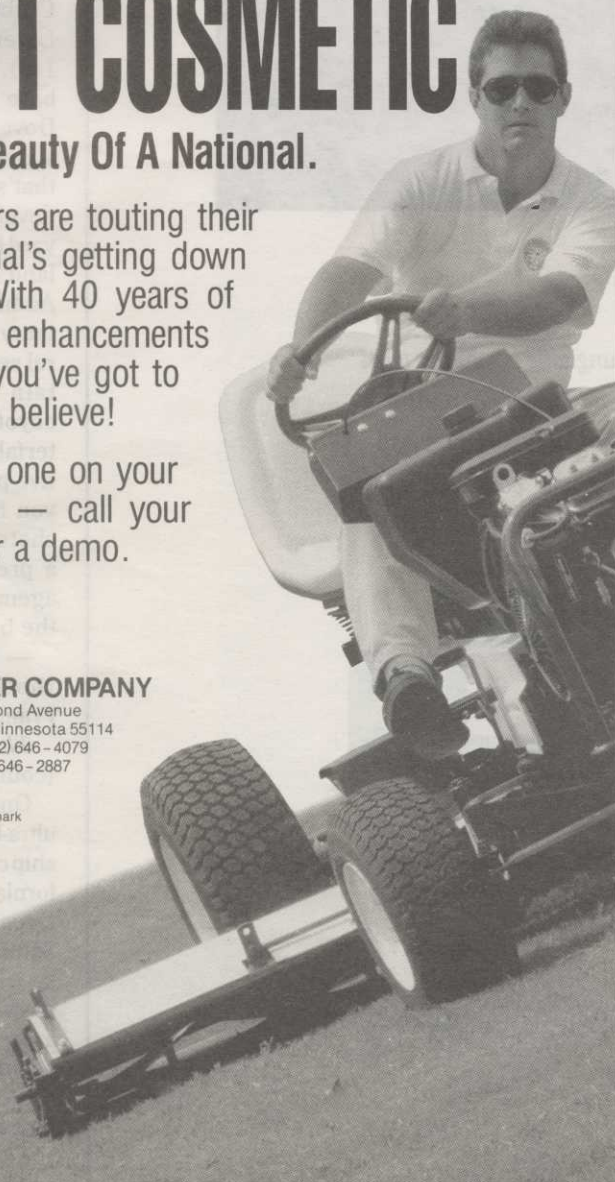
That's The Beauty Of A National.

While the others are touting their looks, a National's getting down to business. With 40 years of improvements, enhancements and upgrades you've got to see in action to believe!

Better yet, test one on your nastiest terrain — call your dealer today for a demo.

NATIONAL MOWER COMPANY
700 Raymond Avenue
St. Paul, Minnesota 55114
Phone: (612) 646-4079
FAX: (612) 646-2887

NATIONAL® is a Registered Trademark of National Mower Company.



SECRETARY/TREASURER

Name: Tommy Witt
Age: 44
Course: Wynstone GC, North Barrington, Ill.

Former head superintendent at: Bent Tree Country Club, Dallas; Austin (Texas) Country Club; Riverhill Club, Kerrville, Texas.

Years GCSAA member: 19

GCSAA posts: Board member since 1994; chairman of public golf resource group, research, career development, education, membership and tournament committees; vice chairman of public relations committee; member of certification, bylaws resource, conference, fundraising, resource and scholarship and research committees.

Other associations: Past president of Central Texas Golf Course Superintendents Association; past president of Lone Star Golf Course Superintendents Association; past vice president of North Texas Golf Course Superintendents Association; chapter liaison and voting delegate for North Texas and Lone Star GCSA chapters; board member of Bentgrass Research Inc., North Texas and Lone Star GCSAs, Midwest and Chicagoland Associations of Golf Course Superintendents.

Education: B.S. in agronomy with turfgrass management option from Texas A&M University.

Family: Wife, Lorrie; Children, Seth, 10, Lauren, 9, Tanner, 6.

Goal: "I am at a point on the board where it's my time to run for secretary/treasurer. I've prepared myself to take the step from a director to an officer of the association and the secretary/treasurer position is that first step. With the growth of the association there are financial considerations that need to be monitored and evaluated closely and to ensure the stability of the organization. The secretary/treasurer plays an important part in that."



Tommy Witt

Name: R. Scott Woodhead
Age: 42
Course: Valley View Golf Club, Bozeman, Mont.

Former head superintendent at: Town & CC, Miles City, Mont.; Univ. of Montana GC, Missoula.

Years GCSAA member: 15

GCSAA posts held: Board member since 1993; chairman of information services, Par for the Course Resource Group, public relations, publications, scholarship, conference and show, membership, career development committees; vice chairman of certification, education, public relations and government relations committees; member of scholarship and research, membership, chapter relations, conference planning, seminar resource and conference and show committees.

Other associations: Director and past president of Peaks and Prairie Golf Course Superintendents Association and member of the Association of Montana Turf & Ornamental Professionals.

Education: Bachelors degree in landscape management, Montana State Univ.

Family: Wife, Valerie; children Andrew, 6, Jeremy, 4.

Goal: "I am honored to be nominated for the office of secretary/treasurer of GCSAA. Serving as a director for the past five years has allowed me to prepare for the added responsibilities which go with assuming this office. Having had the opportunity to serve on 17 GCSAA committees or resource groups has allowed me to obtain a very detailed understanding of the inner working of this world-class organization. GCSAA is a "member services" association. We must continue to develop the programs and resources which will allow our members to prepare for the new challenges which lie ahead. The role of today's golf course superintendent continues to change. I am excited about what the future holds and would welcome the opportunity to continue serving the members of GCSAA."



Scott Woodhead

BOARD MEMBER

Name: Ken Mangum
Age: 44
Course: Director of golf courses and grounds at Atlanta Athletic Club, Duluth, Ga.

Former head superintendent at: Idle Hour Country Club in Macon, Ga.; Lagoon Park Golf Club in Montgomery, Ala.,

Years GCSAA member: 23

GCSAA posts: Chairman of certification, publications and tournament committees; member of certification, election, career development, nominating, public relations, government relations, education, membership and certification committees.

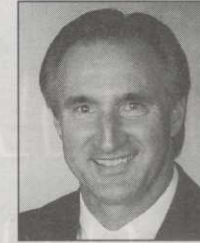
Other associations: Past president, board member and voting delegate of the Georgia Golf Course Superintendents Association; member of the United States Golf

Association Green Section committee, Georgia State Golf Association, Atlanta Junior Golf Association and Abraham Baldwin Agricultural College Advisory Board, Georgia Turfgrass Association (selected as the Georgia turf professional of the year in 1996).

Education: Associate's degree in golf course operations from Lake City (Fla.) Community College.

Family: Wife, Pam; children, Miranda, 20, Trey, 17, Hayley 16.

Goal: "My primary goal is to continue to serve the association and members to try to improve the golf course superintendent's profession. I enjoy the involvement and being able to make a difference. It's much more fulfilling to be a part of the process of making things better rather than sitting on the sidelines complaining."



Ken Mangum

Elections are scheduled for Feb. 6 from 8 a.m. to noon

BOARD MEMBER

Name: Wayne Remo
Age: 46
Course: Rock Spring Club, West Orange, N.J.

Former head superintendent at: White Beeches Golf & Country Club, Haworth, N.J.; North Jersey Country Club, Wayne, N.J.; Essex Fells Country Club, Essex Fells, N.J.

Years GCSAA member: 21

GCSAA posts: Member of the tournament, election and career development committees; voting delegate for New Jersey.

Other associations: Member of Metropolitan Golf Course Superintendents Association and United States Golf Association Eagle Club; donor to Tri-State Research.; member Golden Tee Club.



Wayne Remo

Education: B.S. in agronomy from Delaware Valley College.

Family: Wife, Candace; children, Brian, 24, Jamie, 12.

Goal: "To continue GCSAA's mandates of image, chapter relations, environment and job security through dedication to the elected position of director. To service the membership by being part of team involvement by asking questions, demanding answers, boasting the profession, remaining accessible and addressing the needs of the many. To unselfishly give back to the continued advancement of the turfgrass management field, which has given myself and my family a rewarding and successful way of life."

Verti-Drain's shatter effect gives you dynamic results.

Thousands worldwide have used the Verti-Drain® deep-tine aerator to relieve compaction. You must see it in action to believe it!

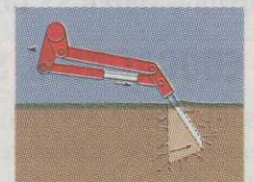
Compacted and poor draining soils can be improved dramatically opening them up so air and water can move freely. Roots can then grow deep, creating strong healthy plants resistant to pests, weeds, disease, drought and hard play.

Verti-Drain's unique parallelogram design forces each tine backwards instantly as it penetrates the soil making new pathways. This underground shattering effect is a Verti-Drain exclusive!

To really see the dynamic action of the Verti-Drain phone now for our information packet including our new, free video.



Verti-Drain Greens Model 7316, just one of nearly a dozen models available to fit virtually every budget.



Verti-Drain's patented parallelogram design shatters the soil. Coring tines are also available on all models.

VERTI-DRAIN®



P.O. Box 1349, Kingston, PA 18704 • 1-800-597-5664

1946	Cleveland GCSA	1972	Midwest Assoc. GCS	1985	Carolinas GCSA (Beach Bums)
1948	Cleveland GCSA	1973	Connecticut Ass. GCS	1986	Rocky Mountain GCSA#1
1949	Cleveland GCSA	1974	Connecticut Ass. GCS	1987	Carolinas GCSA
1950	Cleveland GCSA	1975	Michigan&Border GCS	1988	Carolinas GCSA#1
1951	Cleveland GCSA	1976	Midwest Ass. of GCS	1989	Midwest Ass. of GCS#1
1952	Central Ohio GCSA	1977	Michigan&Border GCS	1990	Carolinas GCSA#1
1960	Michigan&Border GCS	1978	Old Dominion GCSA	1991	Carolinas GCSA
1962	Philadelphia Ass. GCS	1979	Iowa GCSA	1992	Georgia GCSA#1
1963	Michigan&Border GCS	1980	Florida West Coast	1993	California GCSA #1
1968	Heart of America GCS	1981	Florida GCSA	1994	Georgia GCSA#1
1969	Michigan&Border GCS	1982	Florida GCSA	1995	Carolinas GCSA (A)
1970	Southern California	1983	Carolinas GCSA#3	1996	Florida GCSA#1
1971	Southern California	1984	Carolinas (Beach B)	1997	Carolinas GCSA (A)



New England Regional Turfgrass Conference & Show

March 3-5, 1998
R.I. Convention Center, Providence

A Combined Six States Show...
Building Together for Tomorrow

Show & Conference Pass Includes

- Opening Reception
- Educational Sessions
- Show Reception
- Admission to Trade Show
- Keynote Speaker
- Luncheon Voucher(s)

Over 300 Turf Related Booths Await You...

Meet professionals on the cutting edge of turf management. See the latest in equipment, products and supplies. Join fellow lawn, golf, sports, landscape, municipal and other turf industry professionals.

Certification Credits

Pesticide Applicators Recertification Credits are offered for all New England states.

TRADE SHOW HOURS:

Tuesday, March 3 • 4pm - 7pm
Wednesday, March 4 • 10:30am - 2pm / 4pm - 6pm
Thursday, March 5 • 10:30am - 2pm

EDUCATIONAL SESSION HOURS:

Tuesday, March 3 • 1pm - 4pm
Opening Session & Keynote Speaker
Wednesday & Thursday, March 4 & 5
8:30am - 11am • 2pm - 4pm

GCSAA CGCS Recertification CEU

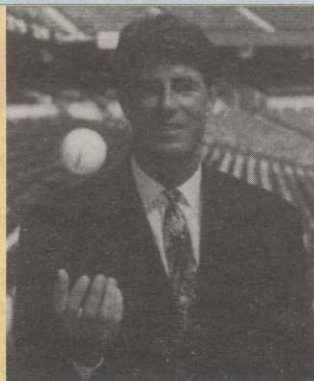
1.0 CEU has been approved by the GCSAA for credit towards recertification.

Informative Presentations

- Golf Course Management
- Athletic Field & Municipal Turf Management
- Machinery & Shop Maintenance

Keynote Speaker
March 3rd
Jim Palmer

Hall of Fame pitcher from the Baltimore Orioles



Presented by:

The New England Regional Turfgrass Foundation in cooperation with the University of Rhode Island and the University of Massachusetts

for the benefit of the New England Golf & Green Industries. Proceeds dedicated to the support and development of turf research and education.

Watch your mail for your registration form or call
(401)848-0004

GCSAA tourney

Continued from page 40

(course rating 72.1, slope 130)
The 6,634-yard, par-70 Ocean South course features tumbling fairways dotted with stands of pines and acres of California scrub. A few of the hole names suggest what you face here: "Sudden Drop," "Sidewinder," "Canyon," "On the Rocks."

— **Oak Creek Golf Club** (host superintendent, Ken Coffman/ course rating 71.9, slope 127). The third Tom Fazio design in this year's tourney, Oak Creek is a 6,834-yard, par-71 course with soft, smooth sloping and subtle elevation changes set amidst towering eucalyptus trees and mountain ranges. Flatter than the Pelican Hill courses — and about 10 miles inland — Oak Creek offers generous fairways, challenging bunkers and greens complexes that put a premium on good second (or maybe third) shots.

— **Tustin Ranch Golf Club** (host superintendent Steve Plummer/ course rating 72.4, slope 129). Recently named the best-maintained public course in Orange County by the *Orange County Register*, Tustin Ranch is par-72, 6,736-yard Ted Robinson design with plentiful wildlife including bluebirds, coyotes, mallard ducks and Egyptian geese. Not a lot of nerve-shattering shots required here, but there is an island-style par-3.

Renault

Continued from page 40

responded: "I got reaffirmation from the club members that yes they have concerns, but yes I have their blessing to do whatever it takes to get the job done. That's nice, but at the same time, the guys are paying your salary and you've got to serve them first... And then when you get home it's tough to balance between work and home.

"I wouldn't do it [be on the GCSAA board] unless I enjoyed it. It's fantastic. I like being there with a finger on the pulse."

Spring Prep: There are few rules, if any

By MICHAEL LEVANS

If there were one universal spring preparation rule that could be neatly stitched and framed to hang in the maintenance shed office it would probably read, "Do your fall work."

Other than that, no rules apply when it comes to getting a course up and running for the new season. Mother Nature takes over and your left to deal with the rites of spring — field mice making winter homes in sod-wall bunkers and irrigation boxes, deer damage, elk dung, frost heaves and those pesky early-season players.

"Everybody gets spring fever," said Terry Buchen, an agronomic consultant. "Then they watch The Masters and everybody goes nuts and wants to get on the course before it's ready."

"Our single biggest spring-prep problem is keeping the golfers off the course until the frost thaws out," said Gerry Faubel, superintendent at Saginaw Country Club in Saginaw, Mich. "They can play when it's frozen, but when the frost is coming out of the ground it's imperative that they stay off."

Faubel said he's posted signs around the course, but that's never enough to keep the golf-hungry at bay.

"It's so easy for strangers to just park on the street and jump on, so we have to keep an eye out and politely ask them to leave."

Smaller springtime pests come in the form of voles for Kevin Ross, superintendent at the Country Club of the Rockies in Vail, Colo. The voles gnaw away at the grass under snow cover, which results in tiny piles of wet grass clippings after the thaw.

"They gnaw it down, cut it so short that we have to reseed or refertilize in those spots," said Ross. "It's our biggest problem." But Ross comes back at the little creatures with a safe, homespun remedy which has yet to fail him.

"We spray hot pepper sauce on the grass to make the grass pungent, a little less appetizing," said Ross.

Ross starts his spring prep during the first week in April and aims to open the first week in May, after the elk dung has been shoveled and hauled away, of course.

Let's not forget the field mice. Buchen said he has seen many a topnotch irrigation system go down due to mice turning irrigation controller boxes into winter retreats.

"They eat the insulation off the wires," said Buchen. "Supers can put rat and mice poison in irrigation controllers, but that's about all you can do."

Moisture is Gary Laliberte's greatest springtime foe.

For Laliberte, superintendent at Prout's Neck Country Club, Scarborough, Maine, it's water, water everywhere on the 3rd and 16th fairways, which are both at sea level.

"Those two fairways are under 2 feet of water every spring," he said. "We have to pump for a couple weeks to get it completely

out and there's nothing we can do about it."

And if the rodents, dung and flooding isn't enough to keep you busy, there's always the basic spring clean up — branches, leaves, etc.

"You can nip a lot of clean up in the bud in the fall," said Faubel.

Spring prep: New challenges in N.D.

By BOB SPIWAK

GRAND FORKS & FARGO, N.D. — When the Red River flooded to a record 54 feet last spring, the golf courses along its banks in Grand Forks and Fargo were inundated. This year, spring prep promises to be a little less complicated for

the courses that were ravaged by the silt and mud deposited by the raging waters.

Three of the courses contacted, Lincoln Park and the Country Club at Grand Forks, and Edgewood CC in Fargo plan to open on schedule this

Continued on next page



Award Rules



High Tolerance At Short Cuts

No matter how you gauge performance, **Award** measures up. It handles disease pressure better than other Kentucky bluegrass

varieties in its class, even when cut as short as 1/2 inch.* And trial after trial proves that **Award** maintains its intense dark green color under varying management regimes.

Award has earned its status as an elite variety by raising performance standards to a whole new level.

But, isn't that what you would expect from Jacklin's Five Steps Above™ Program?



JACKLIN
SEED
A DIVISION OF J.R. SIMPLOT COMPANY

5300 West Riverbend Avenue • Post Falls, Idaho 83854-9499
Phone: 1-800-688-SEED • Fax: 208-773-4846 • www.jacklin.com
©1998 Jacklin Seed • All rights reserved

*NTEP data available upon request.

Smithco's Sweep Star ready for spring duty

Smithco's new Sweep Star 48 is compact, highly maneuverable and designed for all-purpose use. It has a 4-foot sweep and employs the Smithco-exclusive single reel pick-up system.

Available in both high lift and ground dump models, the Sweep Star 48 has an adjustable reel height which allows clean-up of both wind-rows and debris piles.

The high lift model's hopper has a capacity of 1.75 cubic yards, with hydraulic operation, while the ground dump model's hopper handles 1.5 cubic yards. The sweeper's single reel system picks up all types of debris, large and small, and rides on castor wheels. For more information, contact 610-688-4009.

CIRCLE #211

Vermeer introduces 75HP stump cutter

Vermeer Manufacturing Co., the originator of the first stump cutter, has introduced the new mid-size 75 HP (56 kw) SC 752 stump cutter for high-tech, low-maintenance stump removal. Vermeer's exclusive beltless cutter wheel drive system provides operators the efficiency

of a mechanical drive unit without engine side load. The beltless system eliminates the need to slide the engine to engage the cutter wheel drive; maintenance also is easier than on belt-drive systems. For more information, contact 1-888-VERMEER.

CIRCLE #212

Echo offers reduced-hassle pruning

Pruning high limbs is no longer a chore with the new Echo SRS-2400 Aggressor. Powered by a 23.6cc, dual-ring piston engine, the Aggressor combines reciprocating cutting action with extended reach up to 16 1/2 feet to tackle the toughest pruning jobs safely from the ground. Professionals can forget the pole saw and ladder. The Aggressor easily reaches high places to trim away branches and limbs up to 4 1/2 inches in diameter. For more information, contact 847-540-8400.

CIRCLE #213

See No Weevil.



For Out-of-Sight Weevil Control—SCIMITAR®.

To see no weevils, SCIMITAR is an exceptional addition to your turf pest management program because it:

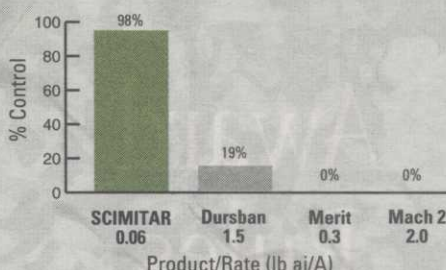
- Controls both *Hyperodes* and *Ataenius* weevil adults
- Targets adults to prevent eggs and larvae
- Delivers fast knockdown
- Provides outstanding performance at low use rates
- Is available in two convenient formulations—wettable powder & capsule suspension
- Is easy on the environment

To see no weevils in turf, nothing is better than SCIMITAR.

For more information, contact your authorized Zeneca Distributor, or call Zeneca Professional Products Toll Free at 1-888-617-7690.

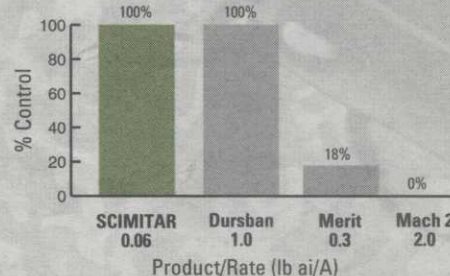
www.zenecaprofprod.com

Control of Annual Bluegrass Weevil



Source: S. R. Alm, et al, University of Rhode Island, Kingston, RI, 1997.

Control of Adult Black Turfgrass *Ataenius* Weevil



Source: H.D. Niemczyk, Ohio State University, 1996.

Scimitar
INSECTICIDE

Always read and follow label directions carefully. SCIMITAR® is a registered trademark of a Zeneca Group Company. Dursban is a trademark of Dow/Elanco. Mach 2 is a trademark of RohMid LLC Company. Merit is a trademark of Bayer Corporation. © 1998. Zeneca Inc.

N.D. getting ready

Continued from previous page
spring, barring any more severe flooding.

According to Lincoln Park superintendent Steve Mullally, all 18 holes opened on August 1. For a time before that, a makeshift nine hole course was available for play.

The big question for this year, said Mullally, is the fate of the course as it currently exists. The Army Corps of Engineers is considering building a dike along the banks of the river. If that proposal goes through, half of the course will be lost. Luckily, the parts department has other property on higher ground for the new course.

Overall, the fairways suffered the most. At Lincoln Park, six to nine inches of silt on 75 acres were dragged off, disked and reseeded, according to Mullally. The greens were hosed off, then scraped. The irrigation came through with few problems, but three tees had to be rebuilt.

"The newly seeded areas took off in August...it's hard to believe the course was flooded, the way it's come back," said Mullally.

Seventy miles south, at Edgewood CC in Fargo, the turf

Continued on page 78

GOLF COURSE NEWS

ZENECA Professional Products

CIRCLE #149/GCSAA BOOTH #3359

BRIEFS



GRAHAM, PANKS SPLIT

Player consultant David Graham and architect Gary Panks are terminating their 10-year association in golf course design. Graham is concentrating on a full PGA Senior Tour schedule, while Panks will continue to focus on course design and share more of the credit with his staff, including senior designers Gary Stephenson and Michael Rhoads. The firm will continue to operate its Phoenix and Dallas offices under the name of Gary Panks Associates.

DOAK HIRES PLACEK

TRAVERSE CITY, Mich. — Renaissance Golf Design has named Don Placek as a design associate. With a degree in environmental design from the University of Colorado at Boulder, Placek has joined the firm to assist primarily to develop concept drawings, construction documents and other graphic-related areas. He has been in the golf course design and construction field for nearly eight years, spending six years at Dye Designs in Denver. His responsibilities will include various levels of involvement with new construction, restoration and consulting.

PUTTING CHALLENGES GO FORWARD

ORLANDO, Fla. — Classic Golf Group, Inc. has been hired by Golf Challenge Corp. to design a "putting challenge course" along International Drive here. Len deBoer, president of Classic Golf, said the course will feature challenging Tifdwarf greens and will give golfers an opportunity to win prize packages, including a \$25,000 cash grand prize. Construction is underway. A spokesman for Golf Challenge Corp. said the Orlando Putting Challenge Course could be the first of many such projects to be located in high-traffic, resort destination areas.

OSU HONORS ALUMNUS HURDZAN

COLUMBUS, OHIO — Golf course architect Dr. Michael Hurdzan was recognized with the Distinguished Alumni Award by the College of Food, Agricultural, and Environmental Sciences Alumni Society in November at Ohio State University. This award recognizes alumni who have brought distinction to themselves, their college and OSU through participation, commitment, and leadership in their profession and community.



Mike Hurdzan



Rolling Rock Club's new 15th hole, with the new nine-hole addition designed by Brian Silva.

One of nation's best 9, Rolling Rock Club, goes 18

LEWISBURG, Pa. — After 76 years as perhaps the best nine-hole course in America, Rolling Rock Club has expanded to 18 holes.

The original Donald Ross-designed loop was joined last year by nine new holes from the hand of architect Brian Silva.

A partner with Uxbridge, Mass.-based Cornish, Silva and Mungeam, Silva worked to match the unique architectural style embodied in the original

nine. While Silva is an experienced interpreter of vintage design — he just finished the restoration of 185 bunkers at Ross' Seminole Golf Club in North Palm Beach, Fla. — the original holes at Rolling Rock Club (RRC) proved a tough act to follow.

"Donald Ross was no fool. He used all the good land back in 1917," Silva explained. "The site we worked with was very difficult; it was essentially the side of a mountain. It took us close to a dozen

route plans to make it work. While Ross was able to gently lay his golf holes onto design-friendly terrain, we were forced to stair-step the holes up and down the side of this mountain. In doing that, we knew right from the start there would be hard edges to the new holes, unlike the comfortable edges of the original nine.

"Our greatest efforts in matching design styles can be found in the green and bunker designs. We consciously set out

Continued on page 55



Augustine Golf Club's 1st hole, a 417-yard par-4. The high-end daily-fee facility designed by Rick Jacobson in Stafford, Va., opened in 1996, to rave reviews, earning 5th place in Golf Digest's Best New Upscale Public Golf Course rating.

Jacobson, a Chicago guy, goes global

An internship with the Madison (Wis.) Park Planning Department, under Art Johnson, who dabbled in golf course design, plus a chance reception at the golf course architectural offices of Ken Killian and Dick Nugent, led to Rick Jacobson entering the field of course design. Now, after years of working with Wadsworth Golf Construction Co. and then alongside Jack Nicklaus, Jacobson is making inroads of his own in the golf world. In 1991 the University of Wisconsin landscape architecture graduate started Jacobson Golf Course Design, and later earned acceptance into the American Society of Golf Course Architects. Nowadays, he is working on projects from East to West Coast and as far away as Japan, including renovating Des Moines (Iowa) Golf and Country Club in preparation for the 1999 U.S. Senior Open, and designing Michael Jordan Family Golf Centers in Chicago and elsewhere. We caught up with him in his Libertyville, Ill., offices.

Q & A

Golf Course News: You worked briefly with architect Roger Packard but, beforehand, you worked for Wadsworth Golf Construction Co. How did that experience help you?

Rick Jacobson: Wadsworth made arrangements with Roger for me to work for them on one project, Riverside Club in Dallas. That evolved into a full-time job and was an exceptional introduction to the golf course architecture field. I was exposed to one of the best contractors in the world and their construction materials and techniques, then got the technical background and plan production in Packard's office.

Spending time on site with a contractor is literally a prerequisite for anybody pursuing a career in golf course architecture. You've got to be cognizant of the processes involved during construction of a project, so that when you're making

Continued on page 56

Palmer to get Rossi Award

ANAHEIM, Calif. — Golfing legend Arnold Palmer will receive the 1998 Don A. Rossi Humanitarian Award here during the annual Golf Course Builders Association of America (GCBA) banquet, Feb. 6.

"The award honors individuals who have made significant contributions to the game of golf and its growth, and who have inspired others by their example," said GCBA President Paul Eldredge. "I don't know who we could possibly give the award to who fits that description any better than Arnold Palmer."

The award is named for Don Rossi, who served as executive director of the National Golf Foundation from 1970 to 1983 and of the GCBA from 1984 until his death in 1990.

"I am very pleased to receive this award," said the 68-year-old Palmer. "I knew Don Rossi and appreciate the role he played in building the industry around our game. To receive an award named for him from the golf course builders — who are the backbone of our industry — is indeed an honor."

Palmer will, however, be unable to attend the GCBA banquet. Ed Seay, his partner in Palmer Course Design, will accept the award on his behalf.

The son of a golf course superintendent in Latrobe, Pa., Palmer

Continued on page 55



Arnold Palmer

Borrego Springs reminiscent of 'Palm Springs years ago'

By MARK LESLIE

BORREGO SPRINGS, Calif. — Desert-type waste bunkers, early-1900s-style putting surfaces that subtly flow and affordable greens fees were the aim of course architect Cary Bickler and developer Cameron Brothers Construction Co., when they built Borrego Springs Country Club and Resort here.

They believe they have captured the look and presented the cost when the 18-hole public course opened for play on Jan. 2.

Borrego Springs is "like Palm Springs years ago," said Bickler from his headquarters in San Diego, where brothers Bill and John Cameron live. The Camerons, whose golf course work included rough grading for Torrey Pines and LaCosta Country Club in the 1960s, have built much of the town over the years. Having built subdivisions, roads and other projects, the Camerons plan to intersperse homes throughout their new golf course. They have just finished a 100-room hotel as well as a clubhouse and dining facilities, tennis courts, pool and a spa in this spot, which sits 100 miles from San Diego and a one-hour drive from Palm Desert.

Situated on 175 acres, Borrego Springs Country Club is "a very unique golf course," Bickler said. Taking advantage of the 1,000 acres of mesquite trees and date palm groves the Camerons own, golf course builder Park West of Irvine transplanted 300, 40- to 50-foot palms, spreading them around the property for a finished look. Four lakes were created — one 4-acre body in a heart shape, with two holes around it, and three half-acre ponds that border three other holes.

"It was a flat site," Bickler said. "But



Palm trees and a mountainous backdrop highlight the look at Borrego Springs Resort & Country Club, designed by Cary Bickler.

we moved about 400,000 cubic yards of dirt and were able to create a lot of movement. Fifty-five bunkers are artistically designed and shaped, and strategically located with a combination of out-of-play areas and waste bunkers."

Targeting a 4,800- to 6,600-yard course, he said: "We wanted to make it look challenging and interesting and beautiful, but we wanted to address affordability and create a course the average golfer could play and enjoy. There's nothing tricked up about it — just straight-forward, fun golf."

The affordability translates to \$49 to \$59, which includes cart and is far below many area courses.

The greens average 6,300 square feet and, Bickler said, replicate the early-1900s style.

"There's enough interest in them," he said. "They have up-and-down contours

and two to three breaks, but everything flows and blends together. If you can see it you can make it."

A signature hole? "We've got six," Bickler said, pointing out several par-3s — a couple of medium length and a couple more than 200 yards; one demanding a 150-yard forced carry over water.

"But I give everybody a way out in case they want to shoot alongside the water," he said.

•••

Meanwhile, Bickler's design at Encinitas Ranch in Encinitas will display landscaping of unique magnitude when it opens March 1.

The property is covered with red poinsettias, and will remain so to a large degree, until they are harvested each year for the holiday market.

Part of thousands of acres owned and farmed by the Paul Ecke family about

'The property has been tucked away and hidden for decades.'

— Cary Bickler

30 miles north of San Diego, the 180-acre Encinitas Ranch was donated to San Diego County by the Ecke heirs. Sitting on a high mesa, the entire property displays views to the west, northwest and southwest of the ocean a mile and a half away.

The city owns the course and it will be managed by JC Resorts, a local operator. The greens fee will range around \$30 weekdays, with local residents getting a discount.

"The property has been tucked away and hidden for decades," Bickler said. "It has a 2-1/2 percent slope to the west, perfect for ocean views. At the most northern hole, the 16th, you look straight down on LaCosta Country Club. And Aviara is to the south 100 feet below it... When it's clear you can see 80 miles up and down the coast.

"It will be wonderful for the public."

As well as constructing roads and a bridge, builders moved 450,000 cubic yards of dirt on the golf course. The track will play from 4,800 to 6,700 yards over five sets of tees.

"I wanted to accomplish an old seacoast ranch look," Bickler said. "Trees were strategically positioned, but we left open viewing corridors to the ocean. The bunkering looks timeless. I want a style that looks like it has been there 100 years."

Since the community anticipates 65,000 rounds the first year and expects that to climb to 90,000, the greens average 7,100 square feet, which, Bickler said, allows 21 pin positions.

Relief Is On The Way!



IGM Takes The Headache Out Of Golf Course Maintenance

Below are nine reasons why *outsourcing* your golf course maintenance might be the greatest business decision you ever made. Chew on these... and don't wait until the morning to call us.

- Control Maintenance Costs
- Greater Management Productivity In Other Areas
- High-Level of Expertise
- Careful Handling of Labor Issues
- Assure Quality Maintenance Management
- Outstanding Employee Training
- Consistent Course Conditioning
- Access To Specialty Equipment
- Environmental Protection

IGM
Golf Course Maintenance Specialists

331 South Florida Avenue • Suite 41
Lakeland, Florida 33801
(941) 686-2376 • Fax (941) 683-0455
www.igm.net

(800) 413-5500

Magnesium For Healthy Green Turf

ProMag® 36 is a combination of magnesium sulfate and magnesium oxide, supplying both immediate and long term non-burning magnesium availability.

ProMag 36 is the choice magnesium in micro-primed form necessary to balance calcium and potassium in the soil. Such nutrient balance increases root mass resulting in healthy green turf.

ProMag 36 is versatile, allowing direct application or blending with other plant food ingredients in a wide variety of formulations.

Call 800-648-7400 for your nearest distributor.



Martin Marietta
Magnesia Specialties

ISO 9002 QUALITY

P.O. Box 15470 • Baltimore, MD USA 21220-0470 • FAX: 410-780-5777
Website: www.martinmarietta.com

By W. PETE JONES

Time has claimed yet another historic Donald Ross-designed golf links. In the spring of 1997, the U.S. Army at Fort Bragg, N.C., purchased Overhills, a retreat of 11,000 acres due north of its main base.

The property is the last of an original 42,000-acre nature retreat once owned by Percy Rockefeller. In 1912 Donald Ross was told he could have any section from 3,500 acres of the retreat to incorporate his design. The course would actually be built in two stages, the first nine in 1914 and the second nine in 1916. The golf course tract would be known as the Overhills Country Club.

The location of Overhills was a well-kept secret for decades. The only access to the golf course was by invitation granted by Rockefeller management. Those who tried to enter the retreat were politely turned away. The Donald Ross Society felt history could be served if somehow the now-defunct course could be examined and its features recorded. There was also an opportunity to study the remains of sand putting surfaces. The society found the cooperation from course architect Mike Gleason of Pinehurst, Ricardo Uriarte of North Carolina State University, U.S. Army representative Glen Prillaman and the Rose Engineering Group of Fayetteville, who helped recover detailed information about the course. Unfortunately the 1912 Ross plans were nowhere to be found.

The Army and Rose Group provided copies of an early 1930s aerial photo and a topographical map. Gleason had the hardest job. He took pictures of each hole and surveyed the now-defunct 3,000-square-foot grass green sites. It was his first study of a turn-of-the-century layout.

After all, what other course could claim having only 80 rounds of golf per year? Gleason remarked: "This pristine golf course lays in a completely natural ecosystem which has not been tinkered with. I wanted to analyze the routing and how Ross used the land. Basically, I wanted to learn his thought process and how he created shot values from tee to green and then transfer those parameters onto paper.

"Also, here was a great opportunity to see bunker patterns of that time. Most had been undisturbed, except for a few pine cones and some pine straw that had fallen into the bunkers.

"There were different style bunkers on the course and strange protruding fairway sand fingers not generally found in other Ross designs. For example; the No.1 bunker was a fore-bunker left which depth measured 5 feet and the overall run of sand some 66 yards in length."

Gleason said he walked many times to Pinehurst No.2 and tried to capture Ross' thought process, "but until now I've never had an opportunity to study an untouched work of his."

The original 1914 green surfaces at Overhills were sand, which was a typical surface used on Southern golf courses. By the mid-1950s the caretakers rebuilt them with 328 Bermudagrass and later Penncross bentgrass.

Not much is known about Ross' recommendation for building sand greens, but here was an opportunity to take samples and examine them in detail.

The society wanted to know if Ross specified oil for hardening of sand greens

Ross' Overhills gone but not forgotten

or did he recommend using water to keep the area around the hole firm. Ross' friend and associate, Frank Maples, wrote a method for implementing sand greens in the early 1900s.

In examining the greens, turf management expert Uriarte said: "The present greens are built over the original sand greens. I took core samples starting at No.1 but, due to the density of the greens, didn't get a good core sample until the 5th green. Our lab report showed a clay/sand layer which probably was the base of the

original putting surface. The core samples did not show any PCB's, which meant the greens were probably not oil-hardened."

With this discovery, there is clear evidence that during the pre-grass green era in the South the methods used by Ross were the same as on his three Pinehurst courses. Overhills remains a paradise of sorts in the "Tar Heel" state, but no longer will it be the quiet repose of just a few.

Under the direction of Rockefeller heir Christopher Elliman, Overhills provided a safe haven for native wildlife and sev-

eral rare bird and butterfly species, all which have been considered as protected in future use of the land. The retreat is now officially an Army training area whose directive is to train soldiers but somehow maintain the integrity of a natural ecosystem as best it can. As historian for the society, I find it important to recover information of any Donald Ross course. It is one thing to draw a new course on paper, but to use the course itself as input is a unique challenge. The result of our work means preserving a 1912 design on Ross' original graphs. The plans and study documentation will be sent to the Tufts Archives Wing in Pinehurst.



Your Reputation Never Looked Better

... thanks to Turf Royale, the championship-quality turf fertilizer that combines nitrate and ammonium nitrogen, highly-soluble phosphate, and chloride-free potash in every prill. NPK the right way!

Fast response. Sustained feeding. "Split-nitrogen"—21% Turf Royale supplies nitrate-N for quick green-up (even in cool weather) and ammonium-N for longer-term feeding.

7% phosphate in an efficient, highly-soluble form for vigorous new growth.

Chloride-free potash—14%—derived entirely from potassium sulfate. No chlorides—less salts. Improved resistance to turf stress and disease.

High analysis; application efficiency.

Turf Royale's 3-1-2 ratio and 42% plant food content stretch coverage capability. Fewer trips. Less product to store and handle. Just one 50-lb. bag feeds 10,000 sq. ft. of established turf.

Homogeneous prills—no segregation of nutrients. Each prill contains the stated grade of nutrients. Your turf receives precise, uniform feeding—no "hot spots."

Turf Royale is the professional turf fertilizer for all seasons, for a lot of reasons.



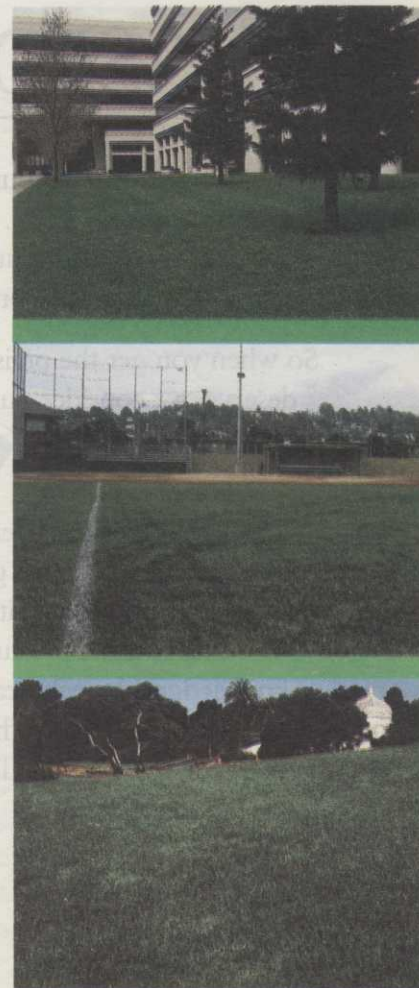
HYDRO AGRI
NORTH AMERICA, INC.

For Service:
1-800-234-9376
1-800-23 HYDRO

TURF ROYALE
21-7-14 (S)

As with any fertilizer application, consult your extension office or other advisory service for recommended practice that meets local crop and soil conditions.

CIRCLE #124



Venerable Hannastown adding nine

GREENSBURG, Pa. — After 75 years of existing as a nine-hole course, the membership at Hannastown Golf Club has approved plans to expand its facility in this Pittsburgh suburb.

Rumored to be the course where a young Arnold Palmer learned to caddy, the club owns approximately 120 acres, 50 of which are occupied by its Emil Loeffler design.

The proposed nine holes, designed by Ault, Clark & Associates of Kensington, Md., will play

through mature woodlands, and are routed to take advantage of a meandering stream, located in the lower portions of the site.

Overall, the earthwork is being kept to a minimum to accentuate the natural character of the land, and help the new nine blend in with the existing holes. When completed, and with minor adjustments to the existing holes, the course will play to a par 71 over approximately 6,800 yards.

A new maintenance facility will also be built.

Stryker, Hearn team in N.J.

LITTLE EGG HARBOR TOWNSHIP, N.J. — New Jersey developer Fred Stryker is building Sea Oaks Country Club here, expecting to open it in the spring of 1999.

"Sea Oaks is located on one of the few locations in southern New Jersey with elevation," said course architect Ray Hearn of

Plymouth, Mich. "As such, the golf course will afford fantastic views of both the Atlantic Ocean and the skyline of Atlantic City. Plus, our site is all sand, with vegetation much like what you'd find inland at places like Pine Valley."

Hearn said he will use much of the windswept scrub pine and jack pine he's found in abundance at Sea Oaks, along with the more traditional oak growth.

Hearn's design strives for balance. Three short par-4s on the front nine will be countered on the back by a pair of long par-3s and the par-5 16th, which may ultimately prove to be the course's signature hole. With water surrounding the green on three sides, players will be faced with a daunting wood or long-iron approach if they chose to go for the green in two, or a testy short-iron shot if they favor a more traditional three-shot approach.

Sea Oaks will range in length from 5,140 to 6,950 yards.

An eight-acre practice range will offer five target greens. A putting course and two practice putting greens will be located near the clubhouse.

Along with approximately 250 single-family home-sites, the semi-private club will also offer tennis and swim amenities.

Four Points track going 'Cayman'

SAN DIEGO — The 3 Par at Four Points executive golf course has opened at the Sheraton Four Points Hotel here. Designed and built by Agoura Hills-based Golf Projects International, the nine-hole course features a challenging experience for players ranging from the serious golfer to the most novice player, according to Nabih Geha, general manager of the Sheraton Four Points Hotel.

The eight-acre course has nine holes ranging from 60 to 130 yards long and includes sand and grass bunkers, and two-tiered greens built to U.S. Golf Association specifications. 3 Par at Four Points will be affiliated with the Southern California Golf Association.

Geha said the course has applied for membership in the Cayman Golf Association, an organization of golfers and member courses committed to playing golf with the Cayman short-distance golf ball. The Cayman ball is played on specially designed short courses, par-3 and executive courses, and practice ranges throughout the world.

"The introduction of the Cayman ball will be a nice option," Geha said.



TO: Robert Sackman, GCS

FROM: The Greens Committee, Tall Oaks Country Club

RE: CONGRATULATIONS!

Dear Bob,

We want to thank you for the exceptional job you and your staff did with the course this past year. Despite some rather harsh weather conditions, you were able to keep play at its all time best. In fact, guests from surrounding clubs frequently commented on what great shape our course was in and wondered what your secret is. We know it's a lot more than magic, but whatever you do — aside from your hard work — it has made the membership very proud.

We look forward to another season with you at the helm!



MISSION ACCOMPLISHED

We live for our golf course customers to get these kinds of letters. We know that what you do throughout the year often goes unrecognized or unappreciated.

So when you get the praise you deserve, we consider our mission accomplished.

For over 30 years, The Andersons has been providing professional golf course superintendents with the dependable products and knowledgeable technical support that gets them the results they need to satisfy the most demanding golfers.



From tees to greens, and all season long, our broad range of advanced formulations produce the superior results that have made Tee Time® products recognized as uniformly, the best in the business.

Include us on your mission and start getting the thanks you deserve.

CALL US TOLL FREE TODAY FOR THE NAME OF YOUR NEAREST TEE TIME DISTRIBUTOR. CALL 1-800-225-ANDY (2639).

the professional's partner®



© 1998 The Andersons Inc.
® The Professional's Partner and Tee Time are registered trademarks of The Andersons, Inc.

Dry is good, and something new, at Legion Mem'l

EVERETT, Wash. — A mammoth subsurface remodeling that transformed city-owned Legion Memorial Golf Course from often-muddy conditions to one of the driest facilities in the Puget Sound area will open in mid-1998.

Completed last fall, the project was carried out by Burns Golf Design of Fernandina Beach, Fla., and builder Daylen, Inc. of Fresno, Calif.

The \$4.7-million project includes more than \$1.3 million for drainage. In the past, the course, which averages more than 70,000 rounds a year, was plagued by extremely muddy conditions much of the time. Some 70 acres are being capped by a 6-inch sand layer over drainage lines installed on 50-foot centers.

The course dates back to the 1930s, and has basic greens, only a couple of sand bunkers, no irrigation and just a few drainage ditches. The remodeling will include rerouting of several holes, all new greens, more than double the existing tee space, and the addition of four new lakes, a waterfall and recirculating stream, and more than 50 sand bunkers.

The course will play to par 72 from five sets of tees, ranging from 4,705 to 6,737 yards.

Design 3 begins redo at Southfield

SOUTHFIELD, Mich. — The city of Southfield Parks and Recreation Department has begun renovations on Evergreen Hills Golf Course. The firm of Design 3, led by W. Bruce Matthews III and Victor Nelhiebel, has rerouted the existing nine hole course to accommodate an anticipated 60,000 rounds a year.

The renovation will feature large greens and tees, bentgrass fairways, and barrier-free accessibility. A 1.5-acre pond and wetland which embraces the finishing hole will be created, and 1.3 acres of woodland mitigation area will use preserved soils, flora and more than 140 native trees.

Turf Drain Inc. of Novi is the primary contractor. Kevin Kehoe, who heads the city of Southfield Golf Program, is overseeing construction, which is expected to be done May 29.

MORAN MOVES, HIRES APPRENTICE

Golf course architect Kelly Blake Moran has relocated offices and added apprentice architect S. Ramsey Walker Jr. The new headquarters are located at 609 Penn Ave., West Reading, Pa. 19611; telephone 610-371-8180.

Kay's New York CC design — vistas, elevation & more

NEW HEMPSTEAD, N.Y. — New York Country Club, a private 18-hole Stephen Kay design perched on the highlands west of the Tappan Zee Bridge, has opened for play.

"It's an interesting piece of property," said Bronxville-based Kay. "Because it's located at the parcel's highest elevation, the clubhouse has commanding views of Manhattan. It's a lovely vista, with the skyline in the distance and the course in the foreground."

Holes 1 and 10 play downhill away from the clubhouse, while 9 and 18 work their way back uphill. The remaining 14 holes play over rolling terrain, around wetlands that Kay took great care to preserve. In particular, the designers created several "filter bunkers" designed to protect the wetlands from run-off.

"There are six of these special bunkers, some as short as 30 yards but some as long

as 200 yards," said Kay. "They serve an important environmental purpose, but they're also quite appealing to the eye."

It measures just under 6,800 yards.

"New York CC does not have the contemporary look that's become so popular," said Kay. "Its character is quite old-fashioned. However, there are a lot of memorable holes out here, in part because the risk/reward equation is evident on every tee."

Providence is Still Number 1.

Leading superintendents rate Providence the best creeping bentgrass for the northern U.S. and Canada.



Seed supplied by United Horticultural Supply

"We chose Providence for its outstanding performance all over the U.S. and particularly in the Northeast. We established greens in the hot, dry summer of '95 and they have performed beautifully. Our new practice putting green was open for play eight weeks after seeding. My membership is very pleased with the quality of our putting surfaces."



Bob Miller —
The Golf Club of Purchase • Purchase, NY



Seed supplied by L.L. Olds Seed Co.

"Providence has performed as expected; with its upright growth characteristics, fine leaf texture, uniform density and color, it has truly been a winner for us. Since the day we opened, our customers have loved the consistency and smoothness of our putting surfaces."



Pat Shaw —
The Bog • Saukville, WI



Seed supplied by Professional Turf Center

"This is my fifth grow in and my first with pure Providence greens. It's a very fine, upright turf. Slightly slower to establish because of our cold and rainy fall, but now that we are maturing it's showing its true colors to be a great putting surface."



Gregg Radak —
The Reserve Vineyards and Golf Club • Aloha, OR

DOMINANT & DOMINANT PLUS Creeping Bentgrass
Blends combine the heat tolerance of SR 1020 with the cold tolerance of Providence, and our new SR 1119.

27630 Llewellyn Road • Corvallis, OR 97333, U.S.A. • Telephone: 1 (800) 253-5766 • Fax: (541) 758-5305 • E-Mail: info@sroseed.com

SEED RESEARCH
OF OREGON, INC.

Six men and a golf course — Pilgrim's Run comes to life for armchair architects

By MARK LESLIE

PIERSON, Mich. — Give a half dozen arm-chair golf course architects free reign over 800 prime golf-terrain acres, and you could have a recipe for disaster. Put at their disposal a couple of golf industry veterans to polish and execute, and you could have Pilgrim's Run Golf Club, which is earning excellent reviews even though only the front nine has opened.

"If I said Arthur Hills or Tom Fazio designed it you'd have a feel for it. When you know the design story of this course, that doesn't really help you. But the end product is nicer than I ever envisioned," said Glenn Karsten, one of the golf lovers and six fledging designers who each drew out of a hat three holes on the course to design.

Five months after the front nine of the daily-fee course opened — and as work continued on the last remaining unfinished hole on the back nine — Pilgrim's Run stood in December as a testament to teamwork. That team includes:

- The owner: venture capitalist Robert van Campen of The van Campen Group in Chicago.
- The six arm-chair architects: David Wisen, Scott Pierre, Fred Croft, Jerry Trannel, Bill Duham and Karsten, all executives with The van Campen Group.
- The two veterans who prevented problems and kept the project flowing: Kris Shumaker, who left a post as superintendent at Clearbrook Golf Club in Saugatuck to be project director, and golf course architect Mike DeVries of Traverse City.

It all started when van Campen, who enjoys golf and the outdoors, discovered 830 acres for sale in this town a half hour due north of downtown Grand Rapids.

Known for involving his employees in his endeavors, van Campen enlisted The Six to have some fun designing a golf course on that land. The project was first envisioned as a private club, perhaps for van Campen Group employees and their families. "But the way it evolved, it's too good for that," said Karsten. "We saw it needed to be open to the public."

They also saw they needed a professional on board.

They hired Shumaker, and for months he walked the huge property before drawing a routing. "The property is ideal: gently rolling golf terrain," Shumaker said. "The contour is more in some spots and similar to seaside links terrain in others. We wanted it to flow naturally, and since we had so much land to work with, we weren't hindered. We used 500 acres. We didn't have to force the

'A couple of [holes] are very much like I originally thought in talking them through with Kris [Shumaker] and Mike [DeVries]... It's been exciting.'
— Glenn Karsten

land into the design.

"We moved less than 100,000 cubic yards of dirt. It has nice sandy soils that drain very well — ideal for a golf course."

Once the routing was complete and the front nine holes cleared, The Six drew their holes from a hat, did some "trading," and walked the site before starting their designs. None had design experience, just what they had observed as golfers.

"It could have been a disaster," Shumaker said. "But it went really, really well. They were very good to work with."

Working in-house — Shumaker manning a dozer to shape the layout, along with excavator and loader operators — the superintendent realized he couldn't commit the time to creating the intricate design of greens complexes.

Enter DeVries, who had worked with Fazio, Tom Doak and William Newcomb Associates and had formed DeVries Designs, Inc. in 1994.

"Essentially, I was there to build and design greens complexes," DeVries said. "That evolved into more complex involvement — eventually building bunkers and advising on the entire process. We made some alterations to the routing and design. Their emphasis has always been on doing a quality job. There was no timeline because it was a golf course just for them. That has allowed flexibility to develop things in a comfortable atmosphere."

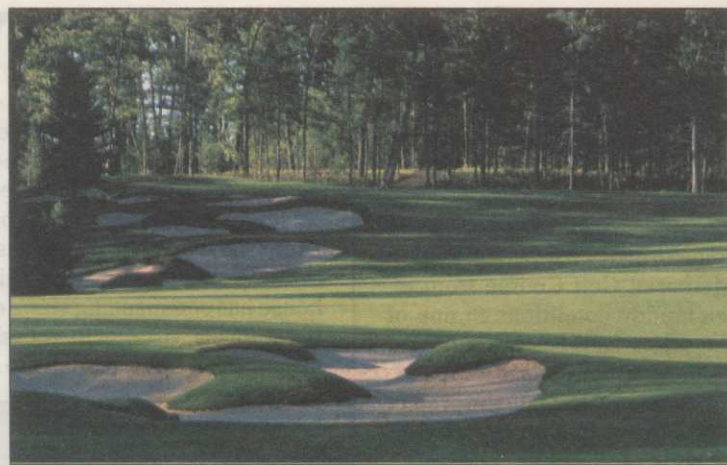
The result, he said, is "a sequencing of holes — a series of short par-4s and then longer, stronger 4s connected together, so there are swings within the round that provide balance and continuity. It can have a big psychological effect on people."

Karsten, who is also handling the business end of the project for van Campen, said he drew all three par-3s from the hat. But he traded two of them for a par-4 and par-5.

Is the finished product close to his designs?

"A couple of them are very much like I originally thought in talking them through with Kris and Mike. But we reversed directions on the par-3," said the low-teens handicapper. "It's been exciting. Overseeing the project, I've been involved a lot in the design process."

Besides the property, which "is ideal for golf," Karsten attributed the success to the continuity between Shumaker, DeVries and The Six.



Bunkering sets the tone, and the challenge on Pilgrim's Run's 6th hole.

Shumaker hopes to have the back nine ready for an Aug. 1 opening, saying he has gotten complete grow-in of his dominant bentgrass greens, tees and fairways in eight to 10 weeks.

"The great thing about the land," DeVries said, "is that the rolls and contours are just the right size. They are small and gentle enough that they make walking comfortable, but still lend a lot of character to the land for setting up greens in places like hollows and across the skirts of wetlands. There is tremendous variety throughout the golf course."

A small pond fronts the 2nd green and an irrigation pond was excavated around the 16th, giving that hole two bodies of water. A property also encompasses a large wetland system.

The par-73 course will play from 5,000 to 7,000 yards from four sets of tees.

DeVries is especially proud of the course's par-4s.

"A lot of lip service is given to short 4s," he said "We've built

good short-to medium-length 4s at Pilgrim's Run, as well as a really good 4-1/2 par at 483 yards. It's a real challenge to design short par-4s and do it properly. Growing up working and playing at Crystal Downs taught me that. People think it's a short par-4, so it's a give-me birdie, or it's a driveable short-4. I look at it as, you still have to have a lot of options to play it — not just from the perspective of the single-digit handicapper but the high-handicapper as well. You have to demand everybody to play to their strengths. It can still be a wide-open green that you can hit from a driver to a 6-iron off the tee, depending on how you want to attack the hole."

A clubhouse is planned, Karsten said, and a range and practice area will be included.

The property's remaining 200-plus acres will remain undeveloped in a family trust, he said, left to the deer and wild turkeys that roam the site and the hawks and eagles that soar above it.



Come see us at booth #3577.

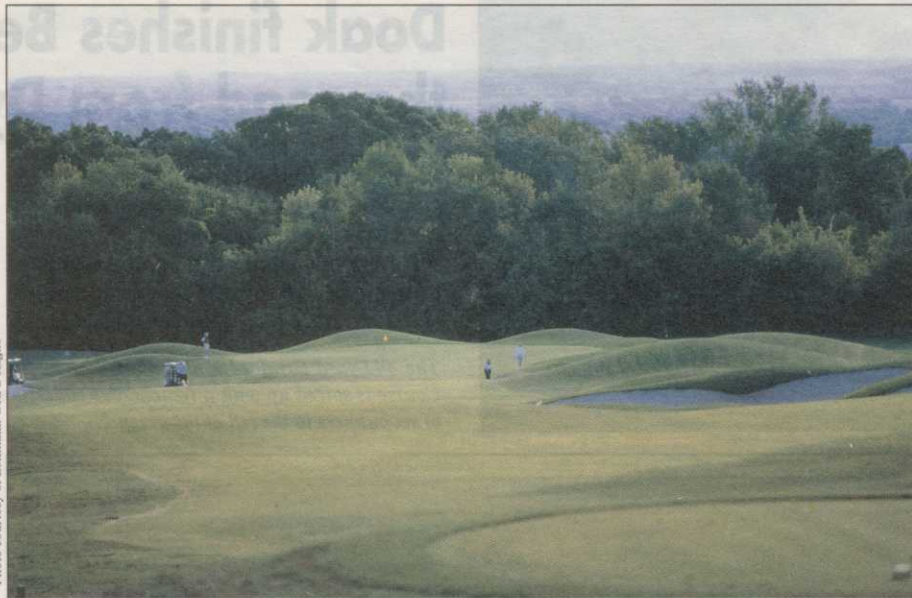
Lohmann christens Whispering Springs

FOND DU LAC, Wis. — Lohmann Golf Designs and its construction division, Golf Creations, have put finishing touches on Whispering Springs Golf Club, an 18-hole daily-fee track that opened for play in the fall along the shores of Lake Winnebago.

Marengo, Ill.-based Lohmann Golf Designs (LGD) completely transformed the property, which had featured a nine-hole course called The Ledges. Working for developer Ed Huck, LGD designed 18 new holes while creating lots for residential housing, upscale apartments and condominiums.

"Whispering Springs is a good example of our turnkey approach to golf development," said Bob Lohmann, president of LGD and vice president of the American Society of Golf Course Architects. "We started by doing a land plan for 18 new holes in anticipation of keeping the existing nine open during devel-

Photo courtesy of Lohmann Golf Designs



Berms frame the green well on Whispering Springs' par-3 12th hole.

opment. However, when we started the first new nine, we just kept going. It doesn't feel like a residential course at all, which we're proud of.

"Because the original nine is gone, we were able to put 18 new golf holes on land that might have accommodated 27. Also, we managed to save some of the

trees from the old nine."

The new course at Whispering Springs plays over rolling terrain, around enormous oaks. The layout itself stretches from 5,500 to nearly 7,000 yards.

Lohmann also used a creek that runs north to south through the property. On three par-5s — Nos. 4, 10 and 18 — play-

ers are required to negotiate the creek.

"The strategy is there; placement is crucial," said Lohmann. "I'm also very pleased with the putting surfaces. The more you play them, the more you appreciate their versatility. They're large enough to move pins behind bunkers or close to slopes, which allows the course to set up differently every day.

"If you take a 4,000- to 5,000-square-foot green and put a lot of depressions around it, the putting surface doesn't look hard to hit. If you take a 10,000-square-foot green and surround it with water, it will appear very hard to hit. We've tried hard to make the player think out there."

The rocky soil here in Fond du Lac presented significant challenges to Golf Creations. The Golf Creations team used the ledge rock to line ponds and frame entryways all around the property. The Lohmann team even provided rock to neighbors for landscaping.

"The ledge was tough, but it turned out to be one of the property's most unique features," said Lohmann. "As a style element, it ties the whole development together."

Ontario resort getting course

SAN DIEGO, Calif.— Tri-National Development Corp. has entered into an agreement to purchase 159 acres for the planned Emerald Hills Resort located 60 miles from the Toronto, Ontario, Canada international airport. The resort is to contain an 18-hole golf course, competitive tennis facilities, a hotel, indoor pool and saunas, a recreation and health club, restaurant and approximately town homes. The property is zoned to accommodate all phases of the proposed plans. The resort would sit in the heart of central Ontario, which is well known for its seasonal tourist population and is an attraction for a large number of business and convention travelers, with annual visitors estimated at 16 million. Upon completion it is projected that the development will have a value in excess of \$75 million.



Intrawest marks \$500M for Tremblant

MONT-TREMBLANT, Quebec — Intrawest plans to invest \$500 million more at Tremblant (Quebec), in partnership with the federal, provincial and municipal governments, over the next five years.

Counting the \$467 million that was spent by December, Intrawest expects it will have

spent nearly \$1 billion on The Tremblant by the end of 2002. Two more golf courses will join the award-winning Le Geant, including Le Diable, a track that will welcome its first golfers in July.

"This investment is justified by a tourist industry that is in a major growth mode," said Houssian. "Canada needs areas that can become true destination resorts — resorts that will attract international visitors. Canada now has that at Whistler/Blackcomb and

unquestionably, we are building it in Quebec, at Tremblant."

Intrawest expects that 2 million guests will visit Tremblant each year by 2002, which is why, between now and then, the company will spend \$46 million on infrastructure, \$88 million for to the mountain expansion and the development of four-season activities, and a further \$366 million for new tourism accommodation.

The development of four-season activities includes a golf academy, a themed mountain-top attraction, equestrian center, outdoor amphitheater, an expanded network of outdoor recreation trails, as well as a new beach and tennis facility.

All three levels of government will take part in the project and provide financial support for infrastructure improvements. On hand for the announcement were Quebec Premier Lucien Bouchard, Treasury Board of Canada President Marcel Masse and Mont-Tremblant Mayor Andre S. Sigouin.

"As we began planning Phase 2 of Tremblant's transformation, it became very clear that if we were going to build something of world-class stature, it was going to need the co-operation of all levels of government," said Houssian. "We would need their financial co-operation as well as other forms of teamwork. We received their support because they saw what we saw - an opportunity to build something very special in a world-class location on a world-class scale."

The economic impact of this project will be unprecedented in the Quebec tourism industry.



JacklinGolf. We Make It Green.

JacklinGolf is a lot more than turfgrass varieties. It's all the turfgrass expertise you'll need to make your golf course vision a reality. With technical assistance. The very best technical support. And, of course, the world's premium quality bluegrass, ryegrass, tall fescues and creeping bentgrass varieties. From the world leader in turfgrass for more than 60 years.

JACKLINGolf
It'll put your course on course.

5300 West Riverbend Avenue • Post Falls, Idaho 83854-9499 • 1-800-760-4321 Fax: 208-773-4846
www.jacklingolf.com



Doak finishes Beechtree — down the road from Dye's Bulle Rock

ABERDEEN, Md. — Construction is complete on Tom Doak's latest design — Beechtree Golf Course here.

A high-end daily-fee design north of Baltimore, Beechtree is a golf-only

The 441-yard par-4 14th hole at Beechtree Golf Course is spiced up with a treacherous collection of six bunkers to the left of the green.

project built for commercial developer James F. Knott, a Baltimore Country Club member.

The site, two miles off the I-95 corridor, was originally slated for industrial development, but plans changed when Knott realized wooded wetlands through the site would have required filling for large industrial buildings. Instead, the course has been routed around the wetlands, with two narrow creeks retained as features of the 7th, 10th, 15th and 16th holes.

Beechtree is also just six miles from the site of Bulle Rock Golf Course, recently completed by Doak's mentor, Pete Dye. Both courses will open next summer, raising the stakes for high-end daily-fee golf in the Baltimore market. Doak took the coincidence as a friendly challenge.

"It's always nice to work next to a great architect, to see how your own work measures up," said Doak. "But I learned a long time ago that you don't try to outdo Pete Dye. You compete by building something different, but hopefully just as worthwhile."

Beechtree is more of a 1920s-style course, like Five Farms, with rolling greens and lots of bunkering to vary the holes, Doak said, adding, "I think the bunkering will set the course apart from anything else in the Baltimore area."

James F. Knott Construction was its own general contractor on the course, with Bruce Hepner of Doak's Renaissance Golf providing daily supervision and Jim Urbina doing the bulk of the shaping work under a separate contract between owner and designer.

Coore & Crenshaw's latest creations, at Talking Stick, open

SCOTTSDALE, Ariz. — Talking Stick, two 18-hole golf courses considered a taste of Scotland come to Scottsdale, have opened here — the most recent designs of two-time Masters champion Ben Crenshaw and partner Bill Coore.

Built on Salt River-Pima-Maricopa Indian Community land, Talking Stick's \$70 to \$90 greens fee makes it one of the most affordable upper-end venues to come on line in Arizona in a decade. It will be augmented by a golf school and clubhouse. A 1,000-room conference center and resort is also planned.

The North and South courses are a study in contrasts.

The North Course, which opened Dec. 5, is a grasslands track featuring gentle rolling terrain with many angular holes reminiscent of Scottish courses. Its bunkers are wild and jagged, its fairways very wide, with no rough, and its subtle greens open to approach shots. It measures from 5,530 to 7,133 yards.

The South Course, which opened Dec. 15, is an American-style layout from the 1920s and '30s, highlighted by lakes and streams.

Its panoramic views encompass Camelback, Pinnacle Peak, the Four Peaks and Red Mountain.

New low odor technology Same outstanding performance

"With the new low odor Trimec® Classic we were able to control our weeds and yet avoid undue concerns and questions from our members and neighbors."

Quinton Baria, GCS
Fincastle Country Club
Bluefield, VA

Trimec® Classic Broadleaf Herbicide is now a "low odor" product. This new characteristic is not created with a masking agent. Advancements in our production technology have enabled us to manufacture Trimec® Classic as a low odor product. If you've been using a "cheaper" three-way and adding a masking agent, now would be an excellent time to switch to quality -



TRIMEC CLASSIC
BRAND
BROADLEAF HERBICIDE

G pbi/gordon
CORPORATION

An Employee-Owned Company

1-800-821-7925

www.trimec.com

TRIMEC is a trademark of PBI/GORDON CORPORATION.

© 1998, PBI/GORDON CORPORATION.

T041/0198

Rolling Rock goes 18 with Silva 9

Continued from page 47

to copy features from the old course. The 18th green is a mirror image of the 8th green, for example, right down to the grades. The 1st green is folded so the middle is lower than the front and back; at the 10th, we did the same thing."

Founded early in the century, Rolling Rock is far more than golf club. RRC maintains its own trout hatchery to stock its streams, raises duck and pheasant for drive and field shooting, operates a four-season clay-bird shooting facility, offers tennis and swimming during summer months, not to mention dining and lodging year round. Golf is not the focal point. Indeed, the club's nine-hole track was deemed sufficient for more than 70 years.

When the membership decided to expand, it turned to Silva, whose restoration portfolio includes a sizable Donald Ross section. Yet all this familiarity with Ross had not prepared Silva for the flamboyance of RRC's original nine, not to mention the challenge of creating a companion nine.

"I still can't believe how severe the original greens are," said Silva. "You often hear that Ross was 'the master of subtlety.' But he designed a 220-yard par-3 at Rolling Rock [no. 3] with about four elephants buried in the green. ... When you're standing in fairway bunkers 8 feet deep, the last thing you're thinking about is subtlety."

The new nine — measuring just 3,200 yards to complement the 3,000-yard original — was built by Ranger Construction of West Palm Beach, Fla. Feature work was subcontracted out to Mark Eitleman's Agri-Scape, Inc. of Ellington, Conn. Silva was a constant presence on site, visiting Rolling Rock every week for more than a year.

The membership rewarded Silva's dogged efforts by placing

Palmer honored

Continued from page 47

burst onto the golf scene at the same time as television technology. He and the army of admirers who followed him on Tour became a staple in America's living rooms as he won 91 tournaments worldwide. Despite a busy schedule devoted to course design and a limited number of tournaments, Palmer actively supports the children's hospital in Orlando, Fla., that bears his name and serves on the board of The Golf Channel.

"There isn't a person in the golf industry who doesn't owe at least part of his business existence to Arnold Palmer," said GCBA Executive Vice President Phil Arnold.

GOLF COURSE NEWS

his name on the scorecard, beside that of Mr. Ross. "We thought Brian should be so recognized because the reaction to his work has been most favorable," said RRC Club Manager John Douglas. "Brian did a wonderful job carrying the Ross flavor over to the new nine, on very difficult terrain."

Silva's many trips to Pitts-

burgh dovetailed with work at Seth Raynor's Fox Chapel Golf Club, which he is restoring in anticipation of the USGA's Curtis Cup matches in 2002. CSM is no stranger to USGA tournament preparation: Silva partner Mark Mungeam recently renovated Chicago's Olympia Fields CC, which hosted the 1997 USGA Senior Open and was recently named site of the 2003 U.S. Open.

PGA Southern Cal to build courses

CALIMESA, Calif. — The PGA's Southern California Section (SCPGA) has announced plans to build two 18-hole golf courses across Interstate 10 from Oak Valley Golf Club here. Section Executive Director Tom Gustafson said the builders hope to begin construction in the fall and open the course in the summer of 1999. The section needed to negotiate with Oak Valley Partners L.P. to create a formal development agreement for the 400-acre site. The entire Oak Valley project includes 6,700 acres that were designated nine years ago for golf, residential and commercial development. The acquisition "will allow us to run our own tournaments ... and provide us with another source of income," Gustafson said.

After manufacturing over
one million
dependable
battery
chargers,
why is this ad
the most
memorable
thing we've
produced?

The fact that our chargers are so forgettable is what makes them so remarkable. After all, the last thing you want to think about is whether or not your golf cars have been properly charged.

For over 30 years we've manufactured the golf industry's finest battery chargers under strict quality controls. Many carry the Lestronic label, while others are private labeled. Whether you know it or not, you probably already have

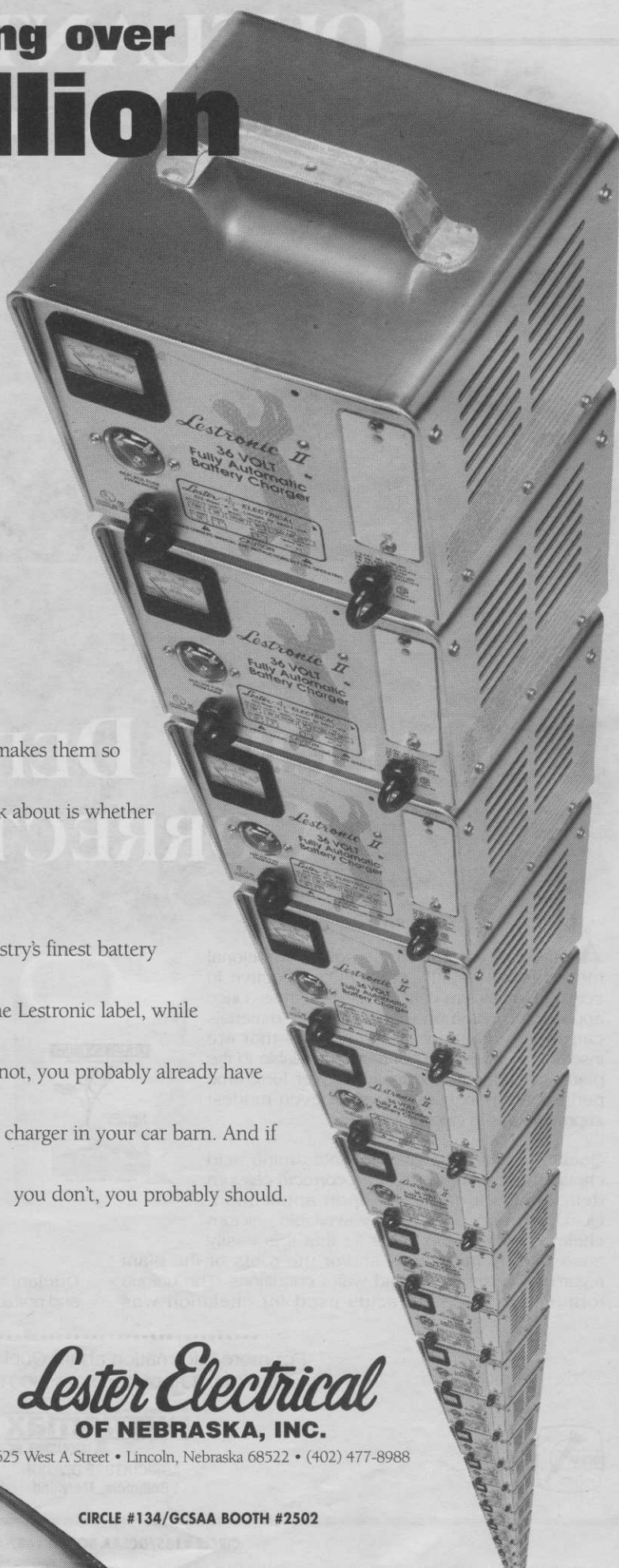
a Lester charger in your car barn. And if you don't, you probably should.



Lester Electrical
OF NEBRASKA, INC.

625 West A Street • Lincoln, Nebraska 68522 • (402) 477-8988

CIRCLE #134/GCSAA BOOTH #2502



Q&A: Jacobson on Nicklaus, design

Continued from page 47

design decisions on site you know what the impact will be — both on the site and the budget. You also learn a lot about the individuals with the contractor. Implementing design in the field is the epitome of teamwork. I have a tremendous amount of respect for shapers and project

superintendents, who can turn a vision into reality. I don't think a lot of people have that level of appreciation unless you see them working day by day, and the artistic ability they have to maximize the potential a site has to offer.

GCN: After a couple years with Packard, Jack Nicklaus Golf Services offered you a job in 1985.

You worked on some great properties with Nicklaus, no doubt.

RJ: Yes. It was the opportunity of a lifetime. I started in the Scottsdale office during development of Desert Mountain, and worked on plan production and documentation for proposals for government agencies for the Renegade Course.

Coming from the Midwest, I hadn't had a lot of exposure to the desert-type setting. It was interesting and certainly had an impact on the design character of the golf courses, as far as layout and handling of transition areas, working with the desert. There are fantastic contrasts and beauty in those desert courses. They are unsurpassed, in my estimation.

A year later they transferred

me to the corporate offices in North Palm Beach, Fla. That year a significant occurrence catapulted the office into design and business opportunities: Jack won the Masters.

The office staff started to grow. I was working as a design associate and on-site coordinator at Bear Lakes Links Course in West Palm Beach and coordinating plan production and specifications for other projects. We had PGA West going at the time, as well as English Turn, Pawley's Plantation, Long Bay Club, Governor's Club, Wynstone, Sycamore Hills. ...

GCN: Was it exciting working with Jack?

RJ: Yes. When I was 10 years old and teeing it up with buddies and coming down the 18th fairway, you'd pretend you were Jack Nicklaus. And then I found myself working with him. It was a special honor.

That's where I got my master's degree in golf course architecture. Seeing a golf course through the eyes of the greatest player in the history of the game, I did a lot of listening and learning, and asking a lot of questions.

Jack takes a vested interest in a project — as much as humanly possible with the number of projects he has going. It's truly amazing how he can recall finite details of each project.

GCN: What was your impetus for starting your own design firm in 1991?

RJ: We were going through a lot of changes. It seemed like the appropriate time. I think that's the natural evolution in this field, to work under an architect in an apprenticeship to get the background and knowledge required to execute a project from start to finish. Some people have the entrepreneurial inner makings to start out on their own. I don't regret it. Every day's a new day with new challenges and its exciting and rewarding.

GCN: Who has had the greatest impact on your design philosophy?

RJ: I think every golf course architect studies some of the great architects of the past. That's golf course architecture in its purist form — when you look at [Alister] MacKenzie, [Donald] Ross and [A.W.] Tillinghast and C.B. Macdonald. They all had qualities architects try to emulate. Maybe they like different qualities that were presented through each of those architect's styles. A lot of people try to emulate the bunkers of MacKenzie, or the greens of Ross, but I think you have to learn both the positives and negatives from those forefathers. Trying to build a Ross convex green on a public golf course that does 40,000 to 50,000 rounds a year is probably not the right application for that design style, but maybe you

Continued on next page

QUELANT™-Ca

Calcium & Amino Acids

CALCIUM DEFICIENCY CORRECTOR

Addition of calcium to the soil by traditional means is not usually efficient or effective in treating the calcium deficiency of turfgrass. Once applied, the common forms of liming materials can rapidly change to compounds that are insoluble in water and not readily available to the plant. Continuous applications over long time periods are necessary to effect even modest improvements in calcium uptake.

Quelant™-Ca is a newly available amino acid chelated calcium product that corrects calcium deficiencies in turfgrass upon application. Quelant™-Ca provides readily available calcium chelated with amino acids so that it is easily absorbed by the leaves and/or the roots of the plant regardless of most soil and water conditions. The unique formulation of amino acids used for chelation was



developed not only to facilitate absorption by the leaves and roots, but to increase mobility of the calcium within the plant as well.

Quelant™-Ca is normally applied as a foliar spray and may also be applied through fertigation. Either way, it is tank-mix compatible with herbicides, soluble fertilizers, insecticides, fungicides and plant growth regulators. It will even help improve the efficiency of most of these treatments by increasing their absorption and translocation within the plant.

Best of all, Quelant™-Ca is economical to use and it protects the environment.

Quelant™-Ca — a true systemic. It's new...it's unique... and nothing else works quite like it!

For more information about Quelant™-Ca call
Nutramax Laboratories' at: 800-925-5187



The Nutritional Company
nutramax
LABORATORIES, INC.
AGRICULTURE DIVISION
Baltimore, Maryland



Q&A: Jacobson

Continued from previous page
do use his strategic bunkering philosophy. You might take the Tillinghast greens that were more concave and his fairways that were more receptive and apply them, or the strategic school of design from Macdonald. So I think it's a matter of schooling yourself in those designs and picking out the features that apply to the type of facility you've been hired to do for your client.

As I walk through a site, I formulate what the developer is looking for in design to accommodate the player profile they are targeting and their operational costs as far as maintenance. Studying the old classic designs gives you a knowledge basis to tap into when you're formulating a design approach for different projects in different parts of the country.

And I've combined those old-school architects along with a guy like Jack Nicklaus. Certainly he gave me the knowledge of being able to design for lower-handicap golfers as far as setting up holes, pin placement and landing areas that challenge better golfers as well as designing for higher-handicappers like myself.

That's what everybody attempts to do today. To what degree they succeed, the public golfers tell you through the success of the project.

From a business standpoint you have to respond to your developer's mission statement. Define their goals and objectives and then modify the design to accommodate the budget, the level of difficulty they want, or the lack of difficulty. We're doing some work now on a golf academy, a shorter 9-hole course geared toward beginner golfers. We don't want 60 bunkers 8 feet deep.

GCN: Did Michael Jordan have any input into your design of the Michael Jordan Family Golf Centers?

RJ: Not from a design standpoint. He was very involved from the promotional standpoint and with developing programs for inner-city kids and people who don't have access to golf. That is a key in today's golf environment. We have to cultivate the youth in golf. They're our future — the next wave of golfers once you look past the Baby Boom generation.

GCN: How many Jordan Golf Centers are planned?

RJ: Beyond the first one that is open in Chicago, another is in planning in Charlotte. AMF bought them, but we're still working with them and have looked at other sites around the country. I don't know if they are going to pursue them.

GCN: You are designing quite a mix of daily-fee, resort and private courses. Have you seen a trend in any direction?

RJ: We're seeing a thrust toward providing facilities for practice — in private facilities as well as public. Even at some of the old classic golf courses that have unused parcels of land, they're putting in a short-game practice area, or even a nine-hole pitch-and-putt course. Facilities which were built on the fringe of a metropolitan area 10 to 15 years ago, but which are now in high-growth areas, are going from 18

to 27 holes, or from 27 to 36. There are a lot of expansions and many are incorporating expanded practice facilities.

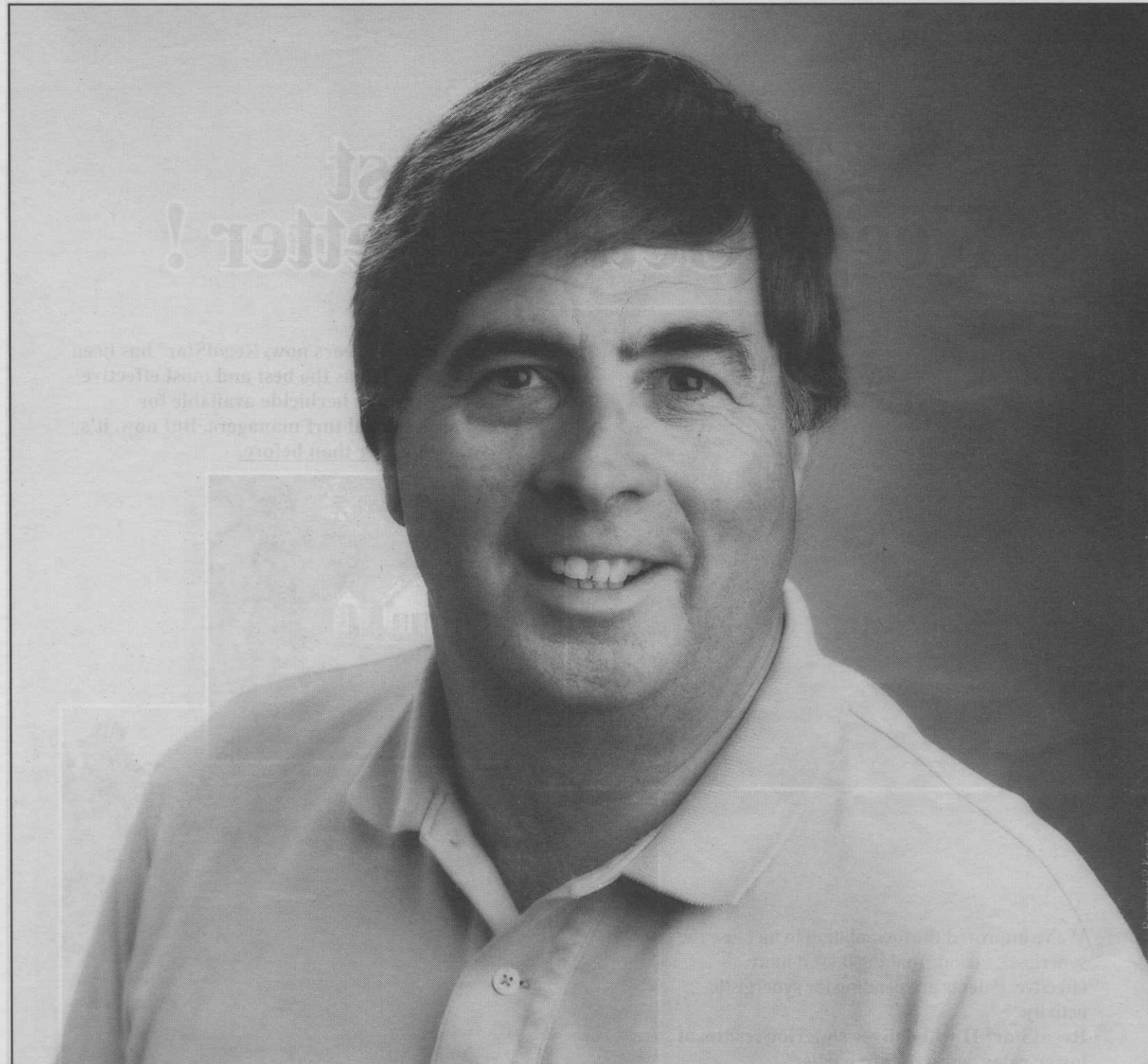
GCN: What sort of staff do you have?

RJ: We have two part-timers as support staff and two full-time designers — me and Doug Myslinski, another Wadsworth alum who was a project supervisor and, more recently, senior estimator.

JACOBSON PREPPING DES MOINES G&CC FOR SENIOR OPEN

DES MOINES, Iowa — In preparation for the 1999 U.S. Senior Open, Des Moines Golf and Country Club is undergoing a major renovation of 18 of its 36 Pete Dye-designed holes. Rick Jacobson is in charge of the project, which includes combining 9 holes from each of the two 18-hole courses to create the 18 holes for the Open.

The second phase of the renovation should be completed this spring. In phase one, nine holes were worked on. "All the greens were been regrassed with A4 [bentgrass]," said Jacobson. "We reconstructed the 18th green and expanded a couple others to recapture pin placements. We've reconstructed all the bunkers and added several in strategic places."



1-2-3™

We started using the ROOTS 1-2-3™ product last spring, and have used it every Friday ever since at six ounces per thousand. The product gives us dark and consistent color (especially when using PGRs), great root development, and knocked our wetting agent use down by 95%.

We have very fast greens, usually 11 to 12 on the stimp meter (weather permitting), and the 1-2-3™ product keeps the plant nourished without getting top growth. I've been a superintendent for 25 years, and have never seen anything in my life that does for color, density, and root growth what the ROOTS 1-2-3™ product does.

Dave Roule
Dellwood Country Club
New City, New York

Casino Beach vies for 1st Tee support

By MICHAEL LEVANS

FORT WORTH, Texas — Steve Champion is getting ready to squeeze an 18-hole grass-surface putting course, a nine-hole pitch-and-putt and a nine-hole executive layout on 54 acres. And if there's any room left, he'd like to build a six-hole whiffle-ball golf course.

Imagine this ambitious project with routing by Michael Hurdzan, a solid junior-golf program and an aggressive business plan, and you just might have a perfectly accessible — and sustainable — golf facility.

That's Champion's plan for Casino Beach Golf Inc. He needs

Continued on next page

First Tee puts Belle Isle back in play

By MATTHEW PHILLIPS

DETROIT — For minorities, the game of golf has historically been an island difficult to reach, so it is fitting that Detroit's Belle Isle Golf Course, Detroit's first public golf course, has been selected as one of the

initial sites to receive funding from The First Tee (see related story).

Sponsored here in concert by the PGA Tour and the Tiger Woods Foundation, and underwritten in part by Ford Motor Co.'s Land Services Corp., the First Tee program

at Belle Isle Golf Club will encompass renovations to the 1,881-yard, nine-hole course as well as provide youth teaching facilities and a related instructional program. Ford has committed dollars to help with the course renovations, but the lion's share of the program's funding is still to be sought.

Rick Smith, teaching pro turned golf course designer, and his company Rick Smith Golf Course Design, will carry out the various Belle Isle course renovations, which will include the addition of a nine-hole pitch-and-putt course, a practice green and a chipping area.

In addition, Smith will develop the curriculum for the youth program which will encompass several facets of golf, including practical instruction, etiquette and actual play.

Belle Isle Park Superintendent Marchel McGehee, who oversees the 980-acre Belle Isle recreational island, sees The First Tee program as "a wonderful opportunity to put minorities and underprivileged youth in touch with a game that has for many years eluded them."

Since announcement of the program in November, McGehee has received several inquiries from interested parties including one from a local school for the deaf. He is anxious to see the momentum continue and looks forward to a program tee off of June 1, 1998.

"We hope to see about 200-300 kids participate the first year," said McGehee.

Refurbishment of the driving range and development of the instructional program will take top priority in order to kick off the program in a timely manner. Next fall, work is planned to begin on the training center, practice green and the nine-hole pitch-and-putt course, "where kids can take what they have learned and apply it first hand," said McGehee.

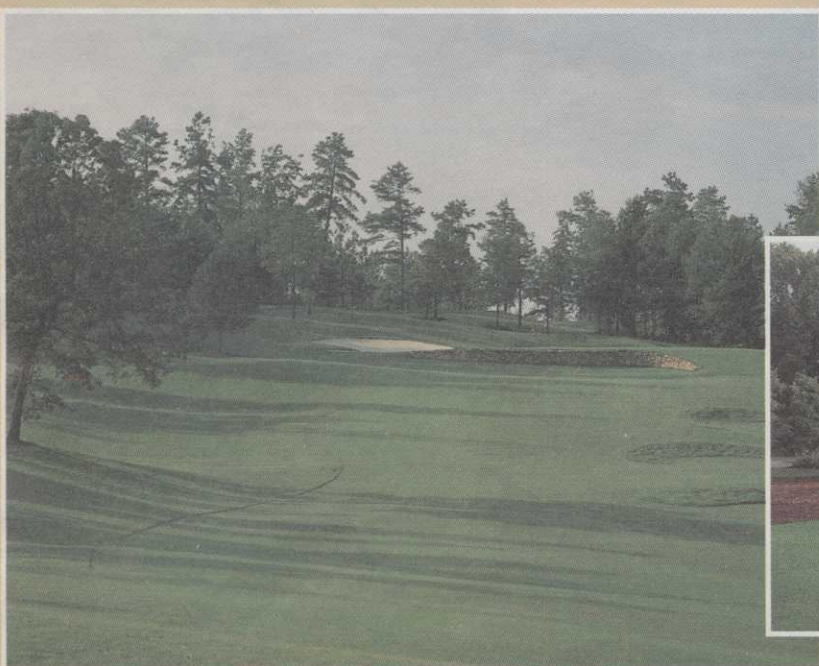
McGehee hopes to have all course renovations complete by 2000.

On McGehee's renovation wish list would be getting the course's lights back in operation for the first time in more than 20 years.

According to McGehee, this would lengthen the playing window for the kids as well as allow the recreation department to generate more course revenue for the program.

The Belle Isle Golf Club opened its doors in 1923.

The Best Just Keeps Getting Better!



For many years now, RegalStar® has been recognized as the best and most effective pre-emerge herbicide available for professional turf managers. But now, it's even better than before.



- 1 We've improved the formulation to increase the synergistic action, making it even more effective. Patents are pending for synergistic activity.
- 2 RegalStar® II will deliver superior results at lower rates compared to earlier formulations.
- 3 Additional label uses: home lawns, ornamental beds and nurseries.
- 4 Research proven: Excellent results on cool and warm-season turf; even on newly sprigged bermudagrass.

RegalStar® II

"THE QUALITY PRODUCT FOR SUPERIOR WEED CONTROL."



Regal Chemical Company • P.O. Box 900 / Alpharetta, GA 30009 • Phone 800-621-5208

First Tee gains massive backing

Continued from page 1

to provide, through the help of participating organizations and individuals, expertise and consulting advice, land-planning services, course design and other assistance that will help reduce the cost of the project.

Fifteen developments have been identified as meeting The First Tee criteria thus far, including renovation of Detroit's Belle Isle course made possible by a \$2 million donation by Ford Motor Co. and Visteon Automotive Systems.

The First Tee plans to have 100 courses in the program in the next two years.

To this point, financial commitments for these developments have been made by the PGA Tour (\$30 million), The United States Golf Association (USGA) (\$3 million over the next two years) and Augusta National Golf Club (\$5 million). Other organizations that plan to make financial commitments include PGA of America and the Ladies Professional Golf Association. Individual contributions are being accepted as well.

"You have USGA and PGA Tour, the two biggest names in golf cooperating," said Michael Hurdzan, of Columbus, Ohio-based Hurdzan Fry Golf Course Design Inc. "They're saying you have to do something to get people into this game. And I believe they're putting their money

Casino Beach: 'We can make it work'

Continued from previous page

to convince The First Tee that he has the wherewithal to make the project happen.

"I want to do something for family golf," said Champion, "but I am a businessman. I'm going into this project and I expect to make a living doing it. I believe it's possible to do a good thing and make a profit."

It's this sort of project — accessible yet profitable — that Hurdzan, principal at Columbus, Ohio-based Hurdzan Fry Golf Course Design, believes will take golf into the future.

"The end result should be a course that can be built at a low cost and maintained at a low cost so the owner can charge a reasonable fee but still make a profit," said Hurdzan.

According to Hurdzan, building a course with the junior in mind takes him back to the basics of course design. "When you have beginners, you have to make sure it has some playability. The goal is building something that is agronomically solid, something the owner can maintain."

Hurdzan has supplied Champion with the routing for the project, which will be built on top of Champions existing nine-hole course.

For Champion, having Hurdzan on board offers substantial leverage as he approaches The First Tee for funding. His focus is simple — give the family a range of affordable golfing environments from which to choose.

"Dad's getting ready to go and play on a Saturday morning. Why can't he take his 6-year old?" said Champion. "The idea is to get the kids involved at 6- or 10-years old. Our idea of junior golfers is 13- and 14-year olds. That's too old. Soccer is

RELATED STORIES, PAGE 58

where their mouth is and investing in the future of the game."

Service and expertise commitments have been made by the Golf Course Superintendents Association of America (GCSAA), American Society of Golf Course Architects (ASGCA), National Golf Foundation, American Junior Golf Association, Tiger Woods Foundation and National Minority Golf Foundation.

"The neatest thing about The First Tee is that all of us are in it together," said Judy Bell, president of the USGA. The USGA has provided The First Tee with a grant of \$1 million for 1998 and plans an additional \$2 million over the next two years, pending a USGA review of the program.

"We see this as a supplement to our current grant making," said Bell. "The goal is to start with the local champion who is getting the job done but needs some help."

The initiative appears to be gaining momentum, and supporters, by the day. On December 9, the ASGCA inked its formal commitment to The First Tee, offering "... our services in any way we



A typical First Tee layout could look like this map of a facility in Duval County, Florida. It is one of the first projects to receive The First Tee funding. The nine-hole layout measures 2,974 yards and plays to a par 25, with four par-3s, three par-4s and two par-5s.

can," according to Alice Dye, ASGCA president.

First Tee participants will be able to obtain ASGCA design assistance during the development of any one of the designated course models — which could be a 3-hole course, pitch-and-putt course, nine-hole course or 18-hole course.

Course architects Hurdzan and Denis Griffiths believe accessible facilities can also be profitable and sustainable. They both see The First Tee as a project that has been too long in coming.

"For years I've said that golf has to build this base," said Hurdzan. "I got my start in this business building very inexpensive golf courses. Those courses became profitable, but more importantly, they allowed people to come in and play at a very low fee."

Hurdzan currently has three low-cost courses on the boards, one with Fort Worth, Texas-based Steve Champion,

owner of Casino Beach Golf Inc.

"I've been on the soapbox for many years," said Griffiths, principal of Braselton, Ga.-based Denis Griffiths & Associates Inc. and most immediate past president of the ASGCA.

"Finally we're seeing the golf community saying there are many different methods to making golf accessible and also profitable for those who are running the facilities."

While the ASGCA has made its commitment, formal word from the GCSAA is next to come.

"Our involvement hasn't been determined specifically," said Jeff Bollig, senior manager of media/public relations for GCSAA. "It will probably be a chapter-based program where The First Tee courses exist. We may provide funds to maintain them or provide a member to work on the courses. We may even provide a publication to assist the managers of the courses."

Markey Sez...

"If you're serious about speeding play, install our new 12" Stub-EEZ yardage markers. They are color-coded and can be seen from 50 yards to accentuate any marking system you currently use."

Stub-EEZ Yardage Marker

Stub-EEZ are available in sets of 3: 1 each Red (100) White (150) Blue (200)

\$11.40 set with ground sockets
\$6.90 set with spike style

Ask about **VALUE PAK** pricing for 9 or 18 hole sets

GCSAA Anaheim
See Us In Booth **1475**
GCSAA's 69th International Golf Course Conference and Show
February 6-8, 1998
Anaheim Convention Center

Speed it...
with Fairway Yardage Markers!

Our high visibility color-coded yardage indicators are a full 60" tall and provide a target for safer, faster play. They are easily removed for grass mowing, from the center of the fairway, or in the rough. Fairway markers are available individually or in sets.

\$6.50 each
per 60" Fairway Marker

Mark it...
with MarkSmart™ Fairway or Cart Path Yardage Markers!

Ten inch, rigid, UV stabilized, cart path markers are visible from 30 yards. Color coded in Yellow, Blue, White and Red to symbolize 250, 200, 150 and 100 yards. Cart Path Yardage Markers include a tough stake to embed in cement or asphalt paths.

\$7.00 each
per 10" Yardage Marker for Fairway or Cart Path use.

1-800-969-5920
or visit on the web at www.markersinc.com

MARKERS, INC.
Markers, Incorporated
33597 Pin Oak Parkway Avon Lake, Ohio 44012
(440) 933-5927 Fax (440) 933-7839

East Lake targets inner city

Continued from page 1

a partnership consisting of several members of the Atlanta Athletic Club bought the East Lake No. 1 course with the idea of preserving the historic No. 1 venue. The less-famous No. 2 course was sold to another group of private developers, which developed the East Lake Meadows public housing project on the property.

While their intentions were good, the owners of East Lake operated the club with limited funds and the course suf-

fered. In 1993, the East Lake Community Foundation, a philanthropic organization, purchased East Lake No. 1 with the idea of making it the centerpiece to redevelop the entire East Lake community, according to Foundation Executive Director Greg Giornelli. The foundation spent \$25 million to acquire and renovate East Lake and its clubhouse. Architect Rees Jones oversaw the renovation and the No. 1 course reopened to rave reviews in August 1995.

East Lake will host the PGA Tour Cham-

ampionship in late 1998 and the U.S. Amateur Championship in 2001, according to Greg Muirhead, a designer in Rees Jones' office. Jones rebuilt the greens, tees and bunkers; relocated the 17th hole; changed the 4th and 16th holes to par-4s and the 5th and 10th holes to par-5s.

The private East Lake club has become intertwined with the restoration of the entire neighborhood, which includes the tearing down of the existing East Lake Meadows public housing project across the street from the golf club, and rebuilding it as a mixed-income residential community and recreation center. The new community will include a public, 18-hole, executive-length course named the Charlie Yates Golf Course after the Atlanta-born golfer and one-time British Amateur champion. Jones also designed the Yates course.

How did this get done?

The East Lake Community Foundation, led by Atlanta developer Tom Cousins, formed a partnership with the Atlanta Housing Authority and residents of the existing East Lake Meadows project to rebuild East Lake Meadows. The old 650-unit public housing project consisted of badly deteriorated, barracks-style apartments. Like many inner-city housing projects, the neighborhood was plagued by a high crime rate and tremendous poverty. For example, three years ago, Giornelli said, the average earned income for an East Lake Meadows' family was \$1,000 per year. Of the 450 families living in East Lake, there were just 16 two-parent families as of two years ago.

"It was 100 percent African-American and totally segregated from the surrounding area," Giornelli said. "There were not literal walls around it. But people who didn't live there did not go into the community."

As of mid-December, 70 percent of the existing community had been torn down. The remaining 30 percent was scheduled to be completely gone by the end of 1998. In its place, the new community will consist of 500 housing units — garden apartment, townhouses and duplexes. Half those units will be set aside for families on public assistance and the other 250 will be available to anyone who cares to rent there. There is no visual or quality difference between the public and private units.

"Within the context of a rental community, it is as nice as anything that exists in Atlanta," Giornelli said.

The housing authority paid to build the public housing units and the foundation financed the market-rate units. The old East Lake Meadows community sat on 60 acres. The foundation purchased additional acreage and the city contributed some additional acreage giving the new community 175 acres.

"Interestingly, the footprint of this new community is being built exactly on the old East Lake No. 2 course," Giornelli said. In addition to the 500 housing units, elementary school, YMCA, park, ball fields and tennis facility, there is the new 18-hole Charlie Yates course and practice range.

The community is being built in two phases. Phase I includes 200 housing units, the first nine holes of the Yates layout and practice range. The first nine will be sprigged in the spring and should be ready by late summer. Phase II, which includes the remaining 300 residences

and final nine holes, should start in late 1998 and be completed by mid-2000. The cost of the entire project will be upwards of \$100 million.

The private East Lake club, Giornelli said, is an economic engine that helps drive the rest of the project and will help pay off the \$75 million spent outside the private club. The private East Lake club generates revenue in two ways. First, as the golf club makes money, excess profits go to neighborhood projects. Second, memberships are sold only to corporations, which are asked to contribute \$200,000 to the East Lake Community Foundation when they pay their \$50,000 to join the club.

"We are a year into the effort and we have 35 companies aboard," Giornelli said. "We expect to fill it out within the next two years and at that point we'll close it out. Once we get to 100, the whole thing works. The bottom line is that with 100 companies on board, each one contributing \$200,000, we'll have raised \$20 million to help fund the charitable side of what's going on."

Programs at East Lake are aimed at long-term benefits for kids, particularly education. A golf academy for neighborhood children runs five days a week for 3 1/2 hours per day after school. Enrichment, reading and computer classes are offered and run by Georgia State University's education department. Golf is also a component of the program. All 100 kids in the program receive golf instruction two days a week and the opportunity to play golf. The program has run out of the private East Lake club the past two years. In the future, the new Yates course will be the site of the junior golf academy, allowing the program to be expanded to include many more children.

"Every child from that neighborhood who is a part of the junior golf academy will be able to play that [Yates] course any time they want," Giornelli explained. "We want it to serve as an incentive. They'll have to know the rules of the game, pass an etiquette test, know how to repair ball marks and things like that. Hopefully it will act as an academic incentive so that you'll have to have certain grades in order to play."

A handful of neighborhood residents work at the golf courses, although job creation wasn't a major reason for renovating East Lake or building the Yates courses.

"East Lake is a caddies-only club, we don't allow golf carts" Giornelli pointed out. "From a jobs standpoint, that's the most significant we have. More than 300 kids have worked as caddies the past two years. As an after-school or summer job for a high school or college standpoint, you can't beat it. ... It's wonderful to have a successful business person and a 14- or 15-year-old inner city kid spend 4 1/2 hours together. That doesn't happen very often in our society."

East Lake is also part of the Evans Scholarship Program, run by the Western Golf Association, which provides full, four-year scholarships to caddies. The East Lake Community Foundation also provides college scholarships of its own.

"Mr. Cousins hopes that this project can be used as a model for other cities where they can go back and reinvigorate a neighborhood that has fallen on tough times," Muirhead said.

Wherever
Golf is Played
...you'll find
Par Aide

At Par Aide, our reputation is one of our greatest assets. Only golf course accessories that do the job better, faster and safer, qualify to wear our name. Because we take our job as seriously as you do.

Since 1955, we've been listening to you. That's why you'll find Par Aide on quality golf courses worldwide... at national and regional turf shows... on membership rosters working hard to establish scholarships and set industry standards... actively involved in new product research, development and testing. Wherever golf is serious business, you'll find Par Aide — even on the Internet.

And... you can call 1-888-893-2433 to find someone willing to listen to questions, comments and product ideas that you might have, to help us make your job easier.



...because
the business of golf
takes place on more
than the course.

3565 Hoffman Rd. East • St. Paul, MN 55110
Phone: 612.779.9851 • FAX: 612.779.9854
www.paraide.com • e-mail to info@paraide.com

BRIEFS

**LEEKE APPOINTED TO OWNERS BOARD**

MT. PLEASANT, S.C. — Meriam Leeke has accepted a nomination to become a member of the National Golf Course Owners Association board of directors. She is the owner and chief executive officer of Old Channel Trail Golf Course near Grand Rapids, Mich., and an amateur golf champion who made the 36-hole cut in three straight U.S. Women's Opens.



Meriam Leeke

.....

LASALLE BUYS MARRIOTT COURSE

NEW YORK — LaSalle Partners Inc. has acquired the Marriott Seaview Resort in Galloway, N.J., on behalf of an investment partnership. Marriott International, Inc. will continue to manage the resort and its two courses under an existing management agreement. Terms of the transaction were not disclosed. Plans are underway to invest over \$5 million to restore the resort. The hotel's golf courses will also receive significant renovation capital. Work is commencing to restore The Bay Course to architect Donald Ross' original course design. This acquisition brings LaSalle's hotel portfolio to 16 upscale and luxury full-service hotels, with over \$170 million invested in 1997.

COBBLESTONE RETAINS DL&J

DEL MAR, Calif. — Cobblestone Golf Group, Inc. has retained Donaldson, Lufkin & Jenrette to assist the board of directors in evaluating its strategic alternatives. Formed in 1992, Cobblestone Golf Group, Inc. owns, operates or manages 24 private country clubs and daily-fee courses located in and around San Diego, Phoenix, Dallas, Houston and Austin, Texas, Atlanta, Tampa, Fla., and Richmond, Va.

MARTY TAKES OVER MISS. STATE TRACK

BATON ROUGE, LA. — Martty Golf Management-operated Mallard Pointe golf course in John Kyle State Park, Sardis, Miss., opened for play Nov. 1. Mallard Pointe, designed by Bob Cupp, is the second course of The Magnolia Trace, golf courses developed by the State of Mississippi within its state parks. The first course of The Magnolia Trace, Quail Hollow, designed by Arthur Hills, opened Nov. 15, 1996, at Percy Quin State Park, McComb, Miss.

Management firm sees rosy future in ownership

By PETER BLAIS

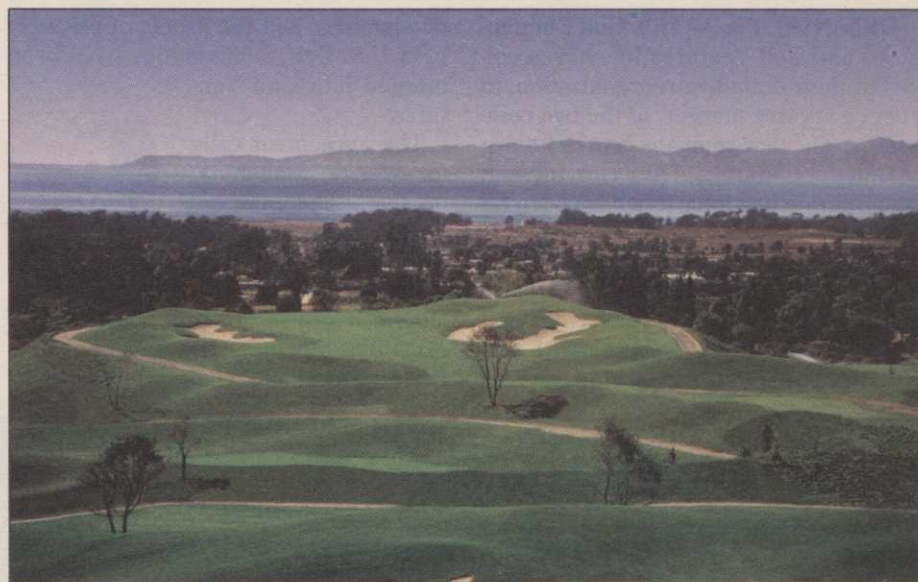
GOLETA, Calif. — The Dec. 7 opening of Glen Annie Golf Club here marks a new direction for Environmental Golf: course ownership.

The Calabasas, Calif.-based firm is a subsidiary of 4,000-employee Environmental Industries Inc., a leading national landscape, nursery, maintenance and site-development contractor.

Environmental Industries has built more than 400 courses since 1954. Today, Environmental Golf is building or remodeling 15 to 20 courses annually. It also has maintenance-only contracts at another 30-plus courses nationwide.

But it was just last year that Environmental Golf entered course ownership. In May 1997, the company assumed part ownership of Arnold Palmer-designed Cherokee Run, which Environmental Golf built for the city of Conyers, Ga., and opened in October 1995.

The first planned build/own course is Damian Pascuzzo- and Robert Muir Graves-designed Glen Annie. Pascuzzo and Graves are also the architects at Westridge Golf Course (opening September 1998) in



Glen Annie GC in Goleta, Calif., is the first course that Environmental Golf built, manages and owns.

LaHabra while Ronald Fream designed The Links at RiverLakes Ranch (opening November 1998) in Bakersfield, a pair of California courses the company will also build and own.

"We've been building courses for 40-plus years for other owners and maintaining them for more than 20,"

explained Director of Golf Mike Dingman of his firm's recent move into ownership. "We just made the decision that it was an industry we were familiar with as far as construction and maintenance and thought it would be a natural progression to get into [overall]

Continued on page 63

MOVIN' ON UP

N.C. super realizes career dream

By PETER BLAIS

GRIFTON, N.C. — Brad Brooks, 39, recently realized the dream of many golf course superintendents, to own his own course.

Brooks and his three partners purchased Indian Trails Golf Club, a 28-year-old course located between Kinston and Greenville, N.C., a 90-minute car ride south of Raleigh.

The ownership at Indian Trails is a tight-knit group. Brooks is the superintendent and his wife, Margaret, is the administrator. Partner Ed Wheeler was the pro before and after the purchase.



Superintendent Brad Brooks is the new owner of Indian Trails GC in Grifton, N.C.

Wheeler's wife, Debra Bryant, is a certified public accountant and serves as controller. Together they are the four equal stockholders and "provide the synergy

that we think is special," Brooks said.

The foursome formed an S-Corporation. Fortunately, they had to obtain little financing and purchased the course from a construction company whose owners were ready to sell the facility. Brooks group negotiated a price and had a sufficient down payment to get a loan.

"It isn't as complicated as you would think it is," said Brooks, who took the GCSAA course on owning a golf facility and availed himself of National Golf Foundation reports on course ownership. "Ninety percent of the work you have to do to please a bank is just leg-work and number crunching. There is no secret formula you have to know. If you can

Continued on page 65

Palmer adds to mgt. portfolio

ORLANDO, Fla. — Arnold Palmer Golf Management has signed an agreement with Paloma Golf Group, acquiring four golf courses in the process — two in Buffalo, N.Y., and single courses in New Jersey and Oregon.

"This is the beginning of a great relationship between Palmer Golf and Paloma," said Peter Nanula, chief executive officer of Palmer Golf. "This strategic alliance is the first of many we are currently negotiating, and Paloma and [Paloma Chairman] Garth Chambers are exactly the kind of progressive partners we're seeking to help grow our network.

"Garth appeals to us as a 'merchant developer.' He believes in our vision for bringing a new level of service to

Continued on page 62

Brassie realigns organization

TAMPA, Fla. — Brassie Golf Corp.'s Joseph R. Cellura, chairman and chief executive officer, announced that the company has completed its downsize and restructure program that began July 1, 1997. Brassie owns and operates golf courses and holds certain golf-related development, licensing, and marketing rights internationally.

Outstanding issues relating to previous management have been resolved, including the resignations from William Horne and Lance McNeill from the board of directors.

Clifford Bagnall, chief operating officer and chief financial officer of the company, has been named vice chairman of the board of directors.

Continued on page 65

USGC, Golf Ventures complete merger

ORLANDO, Fla. — U.S. Golf Communities and Golf Ventures Inc. have completed their definitive reorganization, in effect a reverse merger, of the two companies. The new company is to be known as Golf Communities of America, Inc. and its corporate headquarters have been relocated to Orlando.

Under the terms of the agreement, Salt Lake City-based Golf Ventures has issued 7.7 million Series D convertible preferred shares which represents 81 percent of the post-transaction shares

outstanding; and the assets of privately held U.S. Golf Communities have been merged into Golf Ventures.

The agreement calls for Warren Stanchina, president and chief executive officer of U.S. Golf Communities, to assume the position of chairman of the board, president and chief executive officer of the new company. Duane Marchant, chairman, president

and chief executive officer of Golf Ventures, will become a vice president of the company and manager of its western region.

Golf Communities of America, Inc. is principally engaged in the acquisition, development and operations management of public, private and resort golf properties and adjacent residential real estate throughout the United States.

Shortly after the merger became official, Golf Communities purchased a controlling interest in The Club at Pelican Strand, a

residential golf and country club community located in Naples, Fla. The property consists of a 27-hole, Gordon Lewis-designed course, 50,000-square-foot clubhouse, 1,200 residential units and 30 acres of commercial space. The purchase included a combination of cash and stock.

"Golf Communities of America's purchase of Pelican Strand, valued at a total of over \$50 million, marks our first major milestone since our merger last month," Stanchina said. "This unique real estate exemplifies the type of prime property we own and operate, and fits perfectly into our strategic plan of allying ourselves with quality local developers with strong track records."



Computerized Golf Management

>Point-of-Sale

>Pro Shop

>Concessions

>Memberships

>Tee Time Reservations

>Digital Photo ID

>Touch-Tone

>Internet

>Groundskeeping

>Integrated Accounting

Developed by golf managers and PGA professionals since 1975. Millions of rounds sold. Windows 95, NT, Novell, UNIX or VMS. On-site training. 24 hour 7 day support.

AEK Computers
a division of Thoroughbred Software International, Inc.

800-666-4AEK

CIRCLE #158

ClubLink course receives Best New Course in Canada award

KING CITY, Ontario, Canada — ClubLink Corporation's Lake Joseph Club property in Muskoka, Ontario has been awarded Canada's Best New Golf Course in 1997 by *Golf Digest* magazine.

"We are very pleased that the first course developed and built by ClubLink Corporation has received this kind of recognition," said Bruce Simmonds, president and chief executive officer of ClubLink Corporation.

Another Thomas McBroom design previously won the award in 1995 for The Links at Crowbush Cove, located on Prince Edward Island. ClubLink is currently constructing a 45-hole, Thomas McBroom-designed private golf course named RattleSnake Point Golf Club in Milton, Ontario. It is scheduled to open in June 1999.

ClubLink's corporate development plans include expanding upon its presence in Muskoka, Ontario's premier resort and conference area, continuing its growth in the Ottawa market, and building upon its market share in the Greater Toronto Area by way of introducing daily fee clubs under the trade mark of DAILY MEMBER GOLF(TM).

ClubLink has completed the purchase for \$6.95 million of the Aurora Golf & Country Club and is now revitalizing the property, which includes

two 18-hole courses, the East and West Courses, and property contiguous with the East Course which is suitable for redevelopment. ClubLink also sold to Armadale Properties Limited and Verdiroc Holdings Limited a 50-percent interest in a joint venture for the redevelopment of a portion of the contiguous property and also sold just over half an acre of the contiguous property.

ClubLink recently announced third-quarter and year-to-date results. Revenue for the third quarter ended Sept. 30, 1997 was \$14.8 million, up 51 percent over \$9.8 million recorded during the same period in 1996. Income before depreciation, interest and taxes was up 79 percent to \$5.5 million for the three months ended Sept. 30 compared to \$3.1 million for the third quarter in 1996.

Completion of ClubLink's previously announced acquisition of 36-hole Aurora Golf and Country Club was scheduled for Nov. 18.

Simmonds also said, "ClubLink continues to increase its investment in GolfSouth through secured loans to GolfSouth for its recent acquisition and current renovation of the 36-hole Foxfire Resort and Country Club in Pinehurst, N.C., and its construction of several new GolfSouth courses in the Washington, D.C. area and at Louisiana State University."

The Rainmaker

SO₂ GENERATOR



INCREASED

- ★ FERTILITY
- ★ TURF GROWTH AND COLOR
- ★ WATER PENETRATION
- ★ EFFECTIVENESS OF APPLIED FERTILIZERS

REDUCED

- ★ FERTILIZER COST
- ★ LOWER pH OF WATER
- ★ ALGAE IN RESERVOIRS & DISTRIBUTION SYSTEMS
- ★ BICARBONATES & CARBONATES
- ★ CALCIUM & SODIUM DEPOSITS

For More Info
Call or Fax
(209) 439-4431



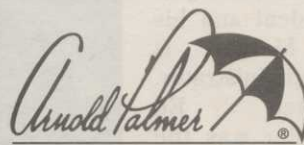
P.O. Box 26084
Fresno, CA 93729

GCSAA Booth #2874 in Hall C

CIRCLE #159/GCSAA BOOTH #2874



We're Building Its Future.



GOLF MANAGEMENT
Where Everyone Loves the Game™

Experience the power of a proven brand with a revolutionary concept in golf course operations. Leveraging the most powerful brand in the industry, the Arnold Palmer Golf Management System™ is a new vision incorporating: **Marketing, Guest Service, Operations, Agronomy and Purchasing.**

Growing with: • Independent Operators through Franchising • Acquisitions, Leasing & Management • Joint Ventures for New and Existing Courses

Arnold Palmer Golf Management
9000 Bay Hill Blvd • Suite 300
Orlando FL 32819 • (407) 926-2579

He made golf history.

CIRCLE #161

Palmer

Continued from page 61

golf, and will now continue to purchase and develop golf courses with the support of our entire organization."

The courses acquired include Tan Tara Country Club (CC) and Fox Valley CC in Buffalo; Minebrook Golf Club (GC) in Hackettstown, N.J.; and Emerald Valley GC in Eugene, Ore.

In other news, Orlando-based Palmer:

- Reached an agreement with the city of San Francisco to manage Harding Park and Lincoln Park pro shops and guest services, leaving course maintenance to the city.

- Signed a lease and management agreement with Penderbrook Golf Club in Fairfax, Va., the company's first Virginia operation. Palmer will fund a multi-million-dollar renovation program over the next few months.

- Officially opened Strawberry Farms Golf Club, an 18-hole, Jim Lipe-designed layout in Irvine, Calif., the fourth golf facility to come under the Palmer banner in Southern California. Sand Canyon LLC, headed by Managing Partner Doug DeCinces, is the developer.

- Inked a franchise deal with White Hawk Country Club in Crown Point, Ind., a Tim Nugent, 18-hole design scheduled to open this summer.

Environmental Golf

Continued from page 61

management and ownership."

Dingman said the goal of Environmental Golf is to continue concentrating on building and maintaining courses and look at ownership deals as they arise.

"Our goal is to do two to three [build and own] situations a year," he added.

Environmental Golf provides specialized maintenance for private and public courses. It has maintenance-only contracts with the following facilities:

Arizona

Estrella Mountain Golf Course (GC), Goodyear

California

Alhambra Municipal GC,

Alhambra

Bernardo Heights Country Club (CC), San Diego

Canyon Lake CC, Canyon Lake

Lake

Creekside GC, Modesto

DeBell GC, Burbank

Diamond Oaks GC, Roseville

Dryden Park GC, Modesto

Municipal GC, Modesto

Silver Lakes CC, Helendale

Tracy Golf & CC, Tracy

Woodcreek Golf Club,

Roseville

Georgia

Cross Creek Golf Club,

Atlanta

Michigan

Lakes of Taylor, Taylor

North Carolina

Birkdale GC, Huntersville

South Carolina

Oyster Reef Golf Club,

Hilton Head

While Environmental Golf has offered maintenance-only contracts for two decades, it will also offer full-service management arrangements beginning this year.

Asked what would distinguish Environmental Golf from other management firms, Dingman replied: "Probably our overall resources. We have numerous facilities across the United States, which allows us to maintain courses anywhere geographically. Because of those resources and 2,000 employees on the maintenance side, it allows us to have regional experts, horticulturists, agronomists, extremely high-level people. That probably gives us a technology edge and an ability, through technology, to manage labor and quality."

Environmental Golf's fee schedule is "extremely competitive" with other management firms, Dingman said. "That's still a primary concern of every owner. The quality and other issues are important, but price is still a driving factor."

"Every deal is different," he continued. "We do things from straight management for a fee to packages where we go in

and take over all the employees and buy all the equipment to provide owners with some additional capital at the time we take over the program."

General Manager of Golf Maintenance Alex Marshall heads the golf maintenance division from his Orlando, Fla., office. Dingman leads the overall course management division from Calabassas.

Vegas' Rio casino opens its own course

LAS VEGAS — Rio Hotel & Casino Inc. announced that its subsidiary, Rio Development Company Inc., has opened the Rio Secco Golf Club.

Located in Henderson, approximately 15 minutes south of the Rio Suite Hotel & Casino, the Rio Secco Golf Club is an 18-hole course designed by Rees Jones. The limited-play course

will have at least 15 minutes between tee times, to provide an enjoyable experience for all players.

President James A. Barrett, Jr. said, "The Rio Secco Golf Club was developed by us as an additional amenity for customers of the Rio, a destination resort."

The fee for Rio customers will be \$190 per round, and for others \$300 per round.

Available
With No
Financial
Exposure



View Your Course from Tee to Greenback



Standing on this tee, this hole is intimidating, but PROLINK's full color graphics & accurate yardage allows the golfer to choose a strategy which makes birdies possible.

It won't take your ranger 15 minutes to find out why there is a hold-up. With PROLINK, you will know everyone's exact location.



You're serious about the business of managing your golf course and you're serious about providing the highest value golf experience to your customers.

PROLINK is the recognized leader for GPS based yardage and management systems in the golf course industry. Just ask our customers.

Learn how leading course operators use PROLINK to add value to their business.

P.O. Box 6627 • Chandler, Arizona 85246



Ph: (800) 483-5951 • Fax: (602) 961-8537

See PROLINK at the NGCOA Trade Show in Fort Lauderdale, Florida January 26-27, 1998 and at the PGA Merchandise Show in Orlando, Florida January 30-February 2, 1998 (Booth 3283)

CIRCLE #136

A little diplomacy goes a long way

By VINCE ALFONSO

My Dad used to say, "Buddy [he called me Buddy], always remember you catch more flies with honey than you do with vinegar."

This old cliché ranks right up there with 'You can bring a horse to water, but you can't make him drink,' and 'You can't make a silk purse out of a sow's ear (Miss

Piggy's favorite).'

Little did I know way back then that someday my Dad's old saying would save my neck and increase my business.

It all happened on a soggy, very soggy, Tuesday morning at The Rail (my former golf course). It was the day of a big outing and it had rained several inches overnight. The

course was soaking wet. With no golf car paths, days like this could be my worst nightmare.

After a long talk and inspection of the course with my superintendent, we decided to let the event go on as scheduled. But, and this was a big but, we would have to route the golf cars around all the super trouble areas and avoid the fairways at all costs.

I made a passionate appeal

over the public address system for all players to follow our directions carefully so we would minimize damage to the course, and then, turned them loose.

My golf guides (rangers) were always reminded, before an outing, that they did not have to take abuse from any customer, ever. I told them, in no uncertain terms, to avoid confrontations with customers, and to report

Vince Alfonso Jr. is a 40-year, golf-industry veteran, president of Alfonso Creative Enterprises Inc., and owner of Kimberling Golf Course near Branson, Mo. He can be reached at 417-739-4370.

any belligerent customers to me.

Not 15 minutes after the shotgun start, Colonel Bishop, one of my guides, found me at the clubhouse and proceeded to tell me about an irate customer on No. 10 green. Bishop told me exactly what the man had said about me and my blankety-blank rules, and then he gave me a message from my customer. Basically, the message, somewhat ungracefully, related where he wanted me to put my blankety-blank rules.

Well, my Italian temper began to boil and I said, "Take me to this guy."

We got to the No. 11 tee box right before they hit their shots. As they pulled up to the tee box, I approached the man the Colonel had pointed out to me as the irate customer.

"Excuse me sir," I started. "The Colonel said you had something you wanted to tell me."

This guy calmly got out of his car, looked down at me (he was at least 6'4" and I'm 5'10") and said exactly what the Colonel had said he said.

As I looked past his shirt placket and up into his eyes, I said, "That's exactly what the Colonel said you said."

Although I knew the guy could break me in half, for a few nanoseconds I contemplated the obvious. And then my father's words rang in my brain, "honey, use honey."

So I very politely explained that I was sorry he felt the way he did. I further explained that I could see on the faces of the other members of the foursome that they were also very unhappy with the golf car policy for the day. I encouraged them to come back to the clubhouse where I could refund their money and try to secure them a tee time at another area course with either golf car paths or one that didn't get the rain that we had gotten.

After some discussion (that revealed a long-standing dispute one of the gentlemen had with my predecessor), they elected to keep playing. I reiterated that my offer stood if they changed their minds.

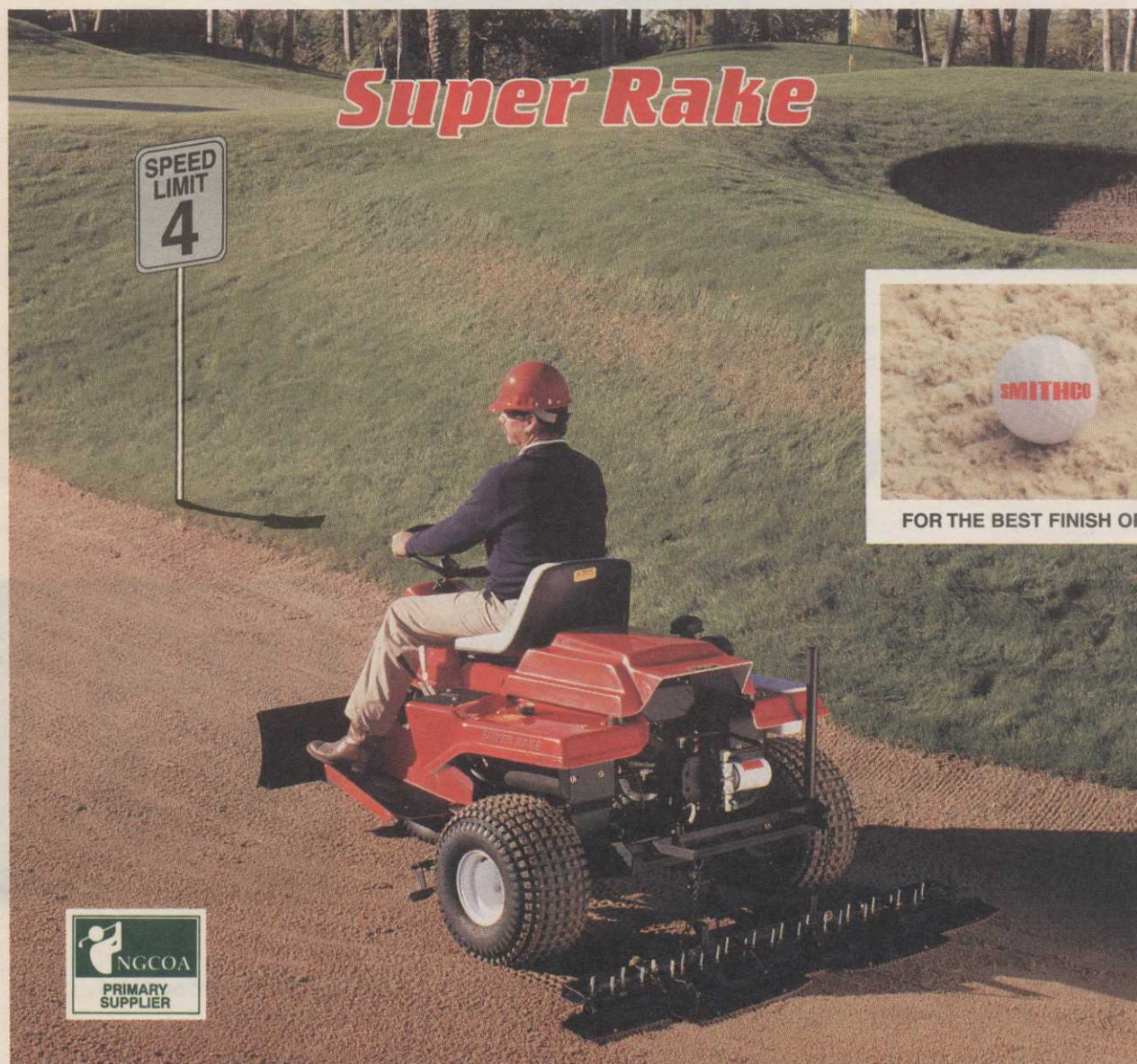
As the Colonel and I drove away, I instructed him to tell all guides to be especially courteous to that foursome, and to trust my judgment on this.

By the end of the day, the gentleman apologized for his behavior and, over time, became one of my best customers.

Tell your staff, and tell them often, Mr. Vince Alfonso Sr. says, "You catch more flies with honey than you do with vinegar." It might just sweeten your bottom line.

Are Your Bunkers Driving You Bonkers? Who's The Boss?

New and exclusive Speed Boss* invention controls speed during bunker finishing



FOR THE BEST FINISH OF ALL



*Patent Pending

New Smithco-only Speed Boss* system automatically governs raking speed during bunker finishing ■ Exclusive, patented control holds speed to an adjustable pre-set level when raking assembly is lowered, restores transport speed when assembly is raised ■ Assures flat, perfectly finished surfaces ■ Reduces need for edging ■ Now standard on most Smithco bunker rakes ■ Be the boss with Speed Boss*.

ALWAYS OUT FRONT

SMITHCO

WAYNE, PENNSYLVANIA 19087

CIRCLE #142/GCSAA BOOTH #1510

Visit Us In
Exhibit #1510
at the GCSAA Show

Brooks

Continued from page 61

make a few calls and ask the right questions, you can provide the information any bank would want to know to help you."

Originally from Elizabeth City, N.C., Brooks is a certified golf course superintendent (CGCS). He is a graduate of the University of Arkansas, where he played on the golf team and earned a bachelor's degree in agronomy.

Before purchasing Indian Trails, Brooks spent three months at Foxfire Resort & Country Club in Pinehurst and 10 years at Benvenue Country Club in Rocky Mount. He was director of golf and grounds at Foxfire when he and his partners closed the deal to buy Indian Trails.

But most of his professional career was spent at Benvenue, where Brooks helped renovate the Donald Ross-designed facility: upgrading irrigation, converting greens from Bermudagrass to bentgrass, enlarging ponds, constructing tee boxes and improving drainage. "That's where my real hunger for wanting to develop my own place really started," Brooks said.

The change from employee to employer has been about what Brooks expected. "I've always been fairly hands-on, so the transition of going from a supervisor to a supervisor/owner has not been as drastic as I had thought. One of the things I had always prided myself in as a superintendent was being fairly cost conscious. Now that I'm spending my money that has proved fairly beneficial."

Another change was the conversion back from the bentgrass greens he'd groomed elsewhere to the Bermudagrass greens at Indian Trails.

"It's [Indian Trails] low budget," Brooks said. "We are operating on an as-needed basis. Irrigation will be the next phase. I'm having to learn about food and beverage. With that as a major income, food and beverage is something I need to have a background in."

Brooks' said he and his partners are fortunate to be in a good market. Greenville is the home of East Carolina University, with numerous factories and rural golfers nearby. There is little competition in the public market. "We appeal to a market demand that isn't provided from any other source," Brooks said.

It was while at Benvenue that Brooks said he realized he wanted something beyond being a superintendent. After 10 years at the upscale, private club, Brooks said he had reached his earning and professional limits. The percentage of turf students flooding the market also made him realize that he was approaching the upper end of the age

group for his profession. Finally, the time required on the job left too little time to spend with his children.

"At Indian Trails I can have the privilege of having my children come out on the course with me if I so choose," he said.

As for his future goals, Brooks said he is not interested in owning or building a lot of courses. "I'd like to make a real mark with this course here," he said.

Brassie Golf

Continued from page 61

Harlan Logan, Jr. joined the management team as director of golf course properties and destination management. Jerry Daly was named president of the company and a member of the Board of Directors. Management also stated that it has resolved, in entirety, all remaining disputes with the holders of its convertible debentures.

Definitive terms have been reached, whereby

Brassie will acquire certain assets of Divot Golf Corp. Brassie will issue to Divot warrants to purchase 10 million shares of Brassie common stock with a one-year holding period. The transaction is subject to execution of definitive documentation, approvals of both boards, and Brassie's shareholders. Divot holds certain development rights and license agreements at the World Golf Village, a destination resort currently being developed south of Jacksonville, Fla..

PopQUIZ...

SUBJECT: Milestones in the Development of Laboratory Support for the Construction of USGA Greens

1. Which commercial laboratory developed the use of water release curves to select USGA rootzones and shallow depth sandbased turf systems for optimum agronomic and environmental performance?

TD&D, Inc. Brookside Thomas Turf Hummel Tifton

2. Which commercial laboratory in 1992 pioneered the industry to shift to the use of organic matter by weight versus volume blending, which is the most significant change in the testing for USGA Greens and sand based turf systems in the last 30 years?

TD&D, Inc. Brookside Thomas Turf Hummel Tifton

Adopted by the USGA 1993 Recommendations

3. Which commercial laboratory pioneered the use of variable tension rootzone evaluation for sand based rootzones which minimizes the chance for turf failure and demonstrated that the use of 40cm tension testing requirement was inappropriate for the evaluation of USGA Greens?

TD&D, Inc. Brookside Thomas Turf Hummel Tifton

Adopted by the USGA 1993 Recommendations

4. Which commercial laboratory pioneered the use of the uniformity coefficient of sand as an evaluation tool to select rootzone construction materials for perched water table golf greens?

TD&D, Inc. Brookside Thomas Turf Hummel Tifton

Adopted by the USGA 1993 Recommendations

5. Which commercial laboratory developed and field tested in 1992 the industry standard for quality control of the construction of sand based perched water table systems?

TD&D, Inc. Brookside Thomas Turf Hummel Tifton

6. Which commercial laboratory shared five years of documented commercial laboratory and field development research with the USGA Green Section, which represented the bulk of the new changes in the 1993 Recommendations, in an effort to improve the quality of golf greens and minimize the environmental impact of golf courses?

TD&D, Inc. Brookside Thomas Turf Hummel Tifton

FACT: The answer to all of the above questions is Turf Diagnostics & Design



TURF
DIAGNOSTICS
& DESIGN

Base your choice of testing labs on the facts.

The leader in the design, testing and evaluation of high performance turf systems.

Accredited by the American Association of Laboratory Accreditation

310-A North Winchester ■ Olathe, Kansas 66062

Phone (913) 780-6725 ■ Fax (913) 780-6759 ■ E-mail: turfdiag@turfdiag.com ■ <http://www.turfdiag.com>

St. Joe's purchases Riverside Golf Management

JACKSONVILLE, Fla. — In a move with significant implications for golf course growth in Florida and the southeast, St. Joe Corporation has purchased the Riverside Golf Management Company, a Jacksonville-based golf development, operation and management business founded by former U.S. Amateur Cham-

pion, PGA Tour pro and ABC-TV golf analyst Steve Melnyk.

Melnyk will continue to direct Riverside as part of St. Joe, a publicly-held company and a major Florida land owner with interests in real estate, timber and railroads. St. Joe recently acquired the assets of Arvida, one of the country's most re-

spected community developers. Riverside has managed eight upscale semi-private golf courses in the Southeast while teaming with some of golf's foremost architects. Riverside currently operates three courses at Clemson in Jacksonville and Atlanta. Riverside and St. Joe have plans to develop or acquire a

large portfolio of new courses over the next five years.

"The addition of Steve Melnyk and his team of experienced professionals at Riverside Golf to the St. Joe Corporation will be great for our company, for Florida and for golf," said Peter Rummell, St. Joe chairman and chief executive officer.

"We plan an ambitious program of building and operating

stand-alone, high-quality, daily-fee golf courses as well as teaming Riverside with other St. Joe divisions to jointly design, develop and operate both independent golf courses and courses within integrated communities. Riverside will enable us to meet the growing demand for top quality recreational and residential opportunities, as well as take advantage of St. Joe's huge land holdings."

Melnyk said Riverside would continue to meet the rapidly growing demand for championship-caliber, semi-private golf courses. "For many golfers, private club membership is not practical," said Melnyk. "We're going to develop high-quality facilities within a semi-private structure to provide a better alternative."

"I'm excited about joining the St. Joe team," said Melnyk. "For those who love golf it is more than a game - it is a way of life. The growth potential for golf, driven by strong demographics, has only just begun to be tapped. Together, St. Joe and Riverside will design and develop great tests of golf."

Melnyk, 50, played on the PGA Tour for ten years until 1982, when he joined CBS-TV as a golf analyst. In addition to his work at Riverside, Melnyk is also founding chairman of First Coast Community bank of Amelia Island, Florida.

PENDULUM

When it comes to season-long control of crabgrass, goosegrass, oxalis, spurge and many other troublesome weeds, PENDULUM®



*Trademark, American Cyanamid Company.

©1996

herbicide gets down to business. No other preemergent turf herbicide can match its spectrum of weeds controlled and cost-effectiveness. • PENDULUM brand Pendimethalin also offers greater flexibility than ever before, with a complete preemergent product line that includes sprayable formulations, combination fertilizer products and now a 2% granular formulation. • When you consider cash rebates available to you from American Cyanamid, it's easy to see that PENDULUM really does mean business. Smart Business. • To learn more about the rebate offer or for the name of the PENDULUM distributor nearest you, call 1-800-545-9525, Ext. 931.

CYANAMID
Agricultural Products Division
Specialty Products Department
One Cyanamid Plaza, Wayne, NJ 07470

MEANS BUSINESS

Troon names new vice pres.

Troon Golf named John Easterbrook its vice president of operations and added Rams Hill Country Club in Borrego Springs, Calif., to its portfolio.

Easterbrook has 13 years of golf management experience with Hyatt Golf and Marriott Golf, including the past four years as Hyatt's director of golf operations.

"The move to Troon Golf will allow me to focus on my strengths in the areas of multi-facility management, along with becoming a part of our company's international growth," said Easterbrook, who once served as regional director for Marriott's golf division.

Rams Hill is part of a privately gated, 3,200-acre residential and resort community. The 18-hole course was designed by Ted Robinson. Troon's management and construction portfolio now numbers more than 20 courses.

BRIEFS



CLUB CAR PROMOTES TWO

AUGUSTA, GA — Club Car Inc. announced the promotion of Thomas Wright to vice president, golf car sales/North America. Wright has held a variety of management positions, primarily in the company's golf car sales division. Club Car has also promoted Fred Palmer to vice president, national accounts. Palmer, a 12-year veteran of Club Car, most recently held the position of director of sales, Eastern United States. During his tenure with the company, he has also held sales management positions overseeing the Southeast and Central United States regions.



Tom Wright



Fred Palmer

KNIGHT JOINS SCOTTS IN ASIA

MARYSVILLE, Ohio — The Scotts Co. has announced that Phillip Knight has joined the company as golf sales manager, Asia. Currently based in Kuala Lumpur, Knight has lived and worked in a number of Pacific Rim countries. In this role, he will be responsible for growing Scott's golf business in Japan and throughout Southeast Asia.

HEEGARD TO JOIN GOWAN TEAM

YUMA, Ariz. — Gowan Co. announced that Dave Heegard of Dave Heegard, Inc. will represent Gowan products in the turf industry. His primary focus will be to provide sales and marketing expertise in the golf and turf markets.

SHUCK NAMED TO SRO'S PHOENIX OFFICE

CORVALLIS, Ore. — Kelley Shuck has been appointed turfseed specialist of the new Seed Research of Oregon sales office in Phoenix. Shuck will handle the company's professional turf sales in Arizona and the Southwest and will assist in marketing Seed Research Bermudagrasses: Primavera and Primo Blend, as well as common Bermudagrass. Shuck has 13 years of experience in the seed industry, working for Valley Seed, Farmers marketing and most recently Seeds West.

Toro to help supers hunt the ideal "green"

By MICHAEL LEVANS

BLOOMINGTON, Minn. — In an effort to supplement its existing Near Infra-red Reflectance Spectroscopy (NIRS) service, Toro has added its Universal Green Turf Scale that incorporates proprietary turf analysis equations designed to monitor the "greenness" of grass.

Toro said the new service, which is

available to Toro's major accounts and key partners using its NIRS, offers superintendents a more accurate way to predict and maintain nutritional levels that result in "green" grass.

The ultimate goal, said Toro, is to arrive at a "universal green."

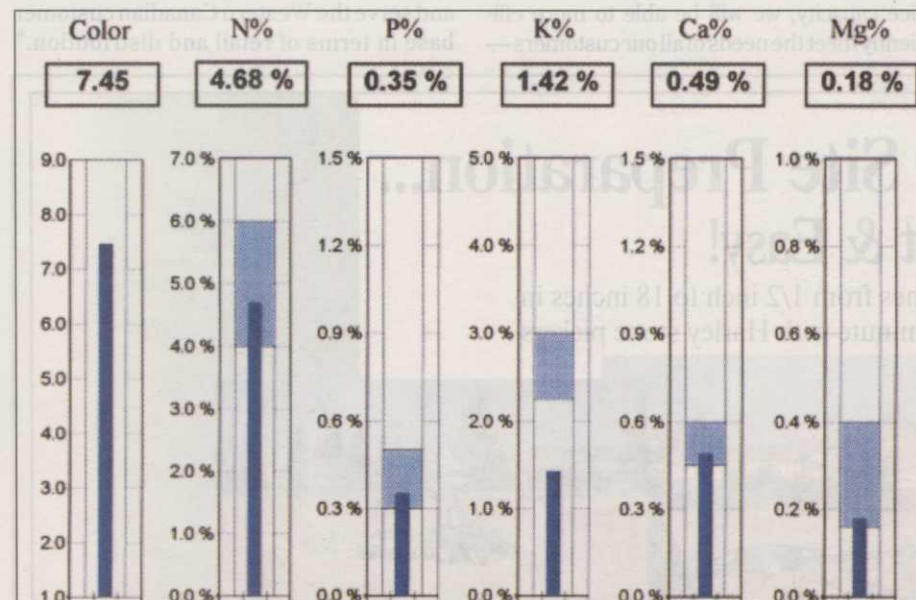
Since Toro launched its NIRS service three years ago, Dr. Syed Dara, Toro's

leading researcher on turf tissue, has accumulated thousands of turf samples that he said enabled him to formulate these color comparison equations.

"Those samples allowed us to characterize a lot of color changes and the color variability in the turf compositions," said Dara. "That allowed me to write equations which relate growing turf color to dry and brown turf color, which NIRS sees." The more samples that Dara can collect, the more accurate the reading will be.

In turn, superintendents are given an additional color number on their NIRS tissue analysis report that is based on the current composition detailed in the NIRS

Continued on page 71



A sample of Toro's NIRS report for participating superintendents. The turf scale figure is on the far left.

Textron/Ransomes: The pending deal is buzz of the golf industry

By MICHAEL LEVANS

[Dec. 22]—The industry has been buzzing since the word of Providence, R.I.-based Textron Inc.'s probable purchase of Ransomes PLC hit the streets (see GCN December, pg. 3). Now the golf course industry is waiting to see just how the \$144 million deal could affect the dynamics of the "iron" marketplace if Ransomes' shareholder's should accept.

According to Peter Wilson, president and chief executive officer of Ransomes, the deal is currently out of his hands.

"The first possible closing date, the first date when our shareholders could respond, could be Dec. 23," said Wilson. "But there are certain conditions to the bid...and everything may not be in place by that time for everybody to make a decision."

There are a number of factors, said Wilson, including British regulatory issues, that could postpone the timing of the deal.

Meanwhile, Ransomes and Jacobsen distributors are among those most anxious to receive word. Although no formal structure or alignment of Ransomes and Jacobsen equipment has been announced, U.S. distributors are busy crunching the myriad factors and possibilities.

"We're pretty excited about it," said Don DeLaney, vice president of Lakeland, Fla.-based Golf Ventures, an exclusive Ransomes house. "It gives us a leasing source above and beyond what we had in the past. It may also make more funds available to do a lot more marketing. As far as we're concerned, it can do nothing but make us stronger."

"It's pretty good news for us," said Gale Fitzgerald, president of Krigger & Company in Gibsonia, Pa., a distributor for

both Jacobsen and Ransomes. "I think it would certainly help us cut costs, since we might be doing accounting for one major manufacturer instead of two."

"It's going to be good for Ransomes," said Paul Stovall, president of Atlanta-based Stovall Turf, an exclusive Ransomes distributor. "Textron will give them [Ransomes] some avenues that they haven't had available to them before."

MMSD to privatize

MILWAUKEE — The Milwaukee Metropolitan Sewerage District (MMSD), the governmental agency that oversees the production of Milorganite fertilizer, is on the verge of privatizing two wastewater production plants and a Milorganite production facility.

United Water Resources announced that its affiliate, United Water Services, has been selected to negotiate a final agreement for a 10-year contract with the MMSD.

Once negotiations are completed, United Water will manage MMSD's two large wastewater treatment plants, a Milorganite bio-solids fertilizer plant, the sewer interceptor system and deep-tunnel storage networks in addition to its 30-megawatt power plant.

"As far as Milorganite, this won't have any impact at all," said Larry

Continued on page 70



NEW PRODUCT OF THE MONTH

Terrapin Ltd. has introduced the Aerragreen, an aerator that aerates upward from below the root zone from depths as much as 12 inches. Narrow probes penetrate the soil, then air is forced into the ground from the bottom up, creating a series of fissures and cracks. Almost immediately, air and polystyrene beads are inserted under pressure to keep the voids open, allowing long-term aeration and percolation of water, oxygen and fertilizer. The Aerragreen is equipped with three or four probes that can be adjusted to two- or three-foot centers. The walk behind unit may be towed up to seven miles per hour using the optional tow bar. For more information, contact Terrapin at 888-298-4272

Club Car expands in Western Canada

By JOHN FARRELL

AUGUSTA, Ga. — Club Car, Inc. has expanded its Canadian operations by opening a new branch office in Calgary, Alberta, hoping to capitalize on a growing market through improved customer service and warehousing capabilities.

The manufacturer of golf cars and utility vehicles established the new branch office to manage vehicle and parts sales and service for Club Car's Western Canadian fleet

golf car customers, which was previously served by a factory direct sales office.

"Our mission for this new full-service branch is to be a more efficient parts and service provider for our distribution network in Western Canada," said James Rous, former Western Canada territory manager and recently appointed manager of the Calgary branch. "With our increased parts and service capacity, we will be able to more efficiently meet the needs of all our customers—

directly, and through our distribution."

Technically, Club Car has maintained a sales office in Calgary since 1992, but the lone-salesman-and-a-tech-rep approach fell short of meeting the needs of a growing Canadian market. In the past, most parts were routed either through Augusta or the company's Cambridge, Ontario office, which serves Eastern Canada.

"Now, with a branch in Calgary," said Ray Bentley, national sales manager-Canada, "we're able to warehouse parts, and serve the Western Canadian customer base in terms of retail and distribution."

Given the fact that Canada is starting to catch up to the United States both in terms of the number of golf courses on the drawing board for future construction as well as the number of emerging players, Bentley feels Club Car's move to add the new branch office is a significant step in the right direction.

"The approach to selling golf cars over the past few years has changed dramatically," said Bentley. "In the past, sales were more driven more towards the pros; now, it's usually the club boards who are making the buying decisions."

Golf Course Site Preparation... Stone-Free...Fast & Easy!

Remove debris, roots and stones from 1/2 inch to 18 inches in size and pick up to 1 ton per minute with Harley stone pickers.



STONE PICKERS



Now, 2 sizes of stone pickers. The popular **Model "A" Hi-Lift** is now joined with the new...

■ **Harley Model "B"** redesigned shorter:

- Better maneuverability
- Large or small site work
- Lower maintenance
- Hi-dump to 8 feet
- 1 cu. yd. box

with the Next Generation
Harley

Shaping & Seed Bed Preparation.

Rake and windrow rocks, roots, stones and trash with several Harley Power Rake models in 6, 8, or 12 foot widths.



POWER RAKES

Tractor and Skid Steer Mount
Power Rakes

- **Pro-8 Double Roller**
- **Pro-6 Double Roller**
- **TR 12 Draw-Bar Mount**

Power Box Rakes®

for smaller area tees and greens

- **T-6 Tractor Mount**
- **S-6 Skid Steer Mount**

Both also available in 8 foot sizes.

- Enclosed oil bath drive
- Bi-angular construction
- Vanadium carbide tooth rollers

Do it like the Pros!

For more information, a demonstration or a free video, contact Glenmac today or call your nearest Harley dealer.

Glenmac

PO Box 2135, Jamestown, ND 58402-2135 U.S.A.

(800) 437-9779 ■ (701) 252-9300 ■ FAX: (701) 252-1978 ■ Email: glenmac@daktel.com

Vigoro expands distribution list

WINTER HAVEN, Fla. — IMC Vigoro announced an expanded distributor agreement with Tri-State Plant Food of Dothan, Ala., to represent Vigoro's turf fertilizer products throughout the Gulf States.

The agreement calls for Tri-State Plant Food to market and sell Par ex fertilizers, containing IBDU slow release nitrogen and V-Cote controlled release nitrogen and potash, to golf course superintendents and lawn care/landscape companies.

Dennis Rich, vice president of Tri-State, will head the sales team.

"Tri-State...brings over 11 years of industry experience to our sales force," said Bill Foster, director of the professional business unit at IMC Vigoro. "This agreement will strengthen our distribution capabilities in the gulf and advance our relationship with Tri-State, who is a successful distributor of our Woodace brand products to the Nursery Industry."

Kerley begins construction in Eufala

PHOENIX, Ariz. — Tessenderlo Kerley is beginning the construction phase of a multi-product plant at its Eufala, Ala., location.

According to Jordan Burns, Kerley's president, "This plant will have the capability to produce ammonium thiosulfate (THIO-SUL) and potassium thiosulfate (KTS) and products currently in the research and development stage. The ammonium thiosulfate production from this plant will meet the company's original objective, to better supply the needs of our customer in the Southeast."

The company said its total ammonium thiosulfate and potassium thiosulfate production capabilities at Eufala will exceed 100,000 tons annually.

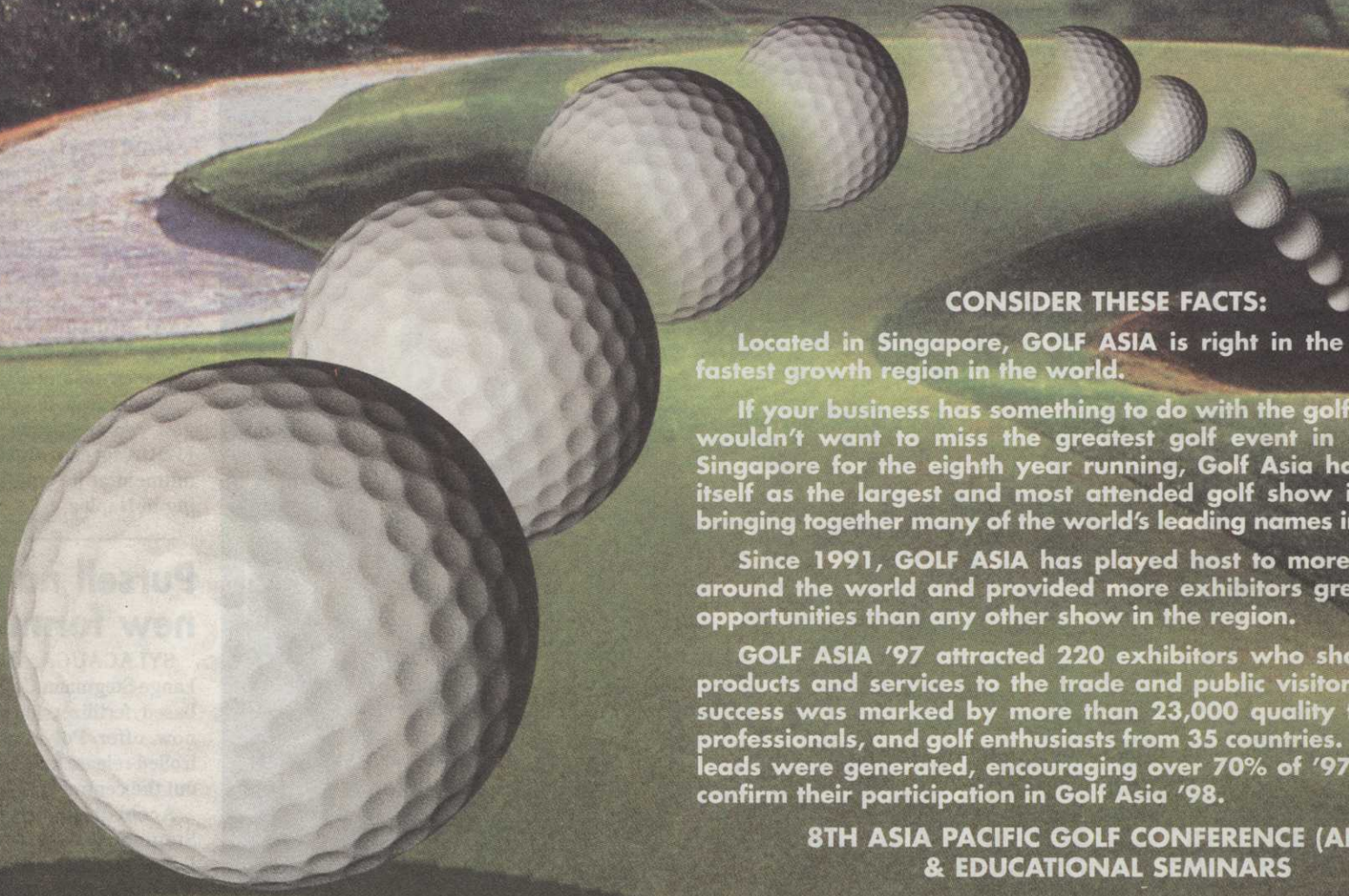
BECKER'S BIOPAK NOW BIOGAIN

AMES, Iowa — Becker-Underwood, Inc. has changed the name of BioPak WSP biostimulant to BioGain WSP and will continue to manufacture BioGain WSP at its facility here. "This is a product name change only, and our customers can expect the same high-quality formulation and water-soluble packaging," said Cozette Hadley, sales manager for Becker-Underwood.

BE ON TARGET

WITH SINGAPORE'S GOLF ASIA

FOR TODAY'S REAL BUSINESS OPPORTUNITIES.



CONSIDER THESE FACTS:

Located in Singapore, GOLF ASIA is right in the center of the fastest growth region in the world.

If your business has something to do with the golf industry, you wouldn't want to miss the greatest golf event in Asia. Held in Singapore for the eighth year running, Golf Asia has established itself as the largest and most attended golf show in the region, bringing together many of the world's leading names in the industry.

Since 1991, GOLF ASIA has played host to more visitors from around the world and provided more exhibitors greater business opportunities than any other show in the region.

GOLF ASIA '97 attracted 220 exhibitors who showcased their products and services to the trade and public visitors. The event's success was marked by more than 23,000 quality trade visitors, professionals, and golf enthusiasts from 35 countries. New business leads were generated, encouraging over 70% of '97 exhibitors to confirm their participation in Golf Asia '98.

8TH ASIA PACIFIC GOLF CONFERENCE (APGC) & EDUCATIONAL SEMINARS

The APGC, Asia's most recognized and comprehensive industry forum, will be held in conjunction with the exhibition. A panel of highly qualified speakers will address the conference, focussing on a wide range of topics relevant to the Asian golf industry. Educational seminars conducted by the Golf Course Superintendents Association of America (GCSAA) will complement the event. These seminars are attended by golf superintendents from clubs throughout the region.

GOLF ASIA '98 will continue the tradition of success of past exhibitions. Preparations are already underway to attract more visitors and participants than ever before.

Claim your stake today!

TO FIND OUT MORE ABOUT GOLF ASIA '98, MAIL OR FAX THIS COUPON TO:

GOLF ASIA EXHIBITIONS PTE LTD

6001 BEACH ROAD, #22-06

GOLDEN MILE TOWER, SINGAPORE 199589

TEL: (65) 296 6961 FAX: (65) 293 5628

Our web site address is: <http://www.asial.com.sg/golf/>

GOLF  **ASIA '98**
INTERNATIONAL GOLF EXHIBITION & CONFERENCES

8TH ANNUAL SHOWCASE OF THE BIGGEST NAMES IN GOLF

DATE: MARCH 12 - 14, 1998

VENUE: SINGAPORE SUNTEC CENTRE, HALLS 403-404

Exhibition & Conference Presented by:

Endorsed By:

Official Airline:



- Please send me more details on the Golf Asia '98 Exhibition.
- Please send me more details on the 8th Asia Pacific Golf Conference.
- Please send me more details on the GCSAA seminars.

Name: _____

Designation: _____

Products/Services: _____ **OR ENCLOSE**

Company: _____ **NAME-CARD**

Address: _____

Tel: _____ Fax: _____

GCN 97

Golf Ventures, RapidTurf partner

JUPITER, Fla. — Golf Ventures Inc., a distributor to the golf course maintenance market, has firmed an exclusive sales and distribution partnership with RapidTurf Inc., a supplier of natural grass grown on plastic, in Florida.

According to Jim Sartain, Golf Ventures' chief executive officer, the alliance is a natural extension of the company's tradition

of offering its golf course clients innovative products.

RapidTurf and RapidSprigs products and services include certified turf grasses (Tifdwarf), custom-grown new releases (Floradwarf and Tifeagle) as well as installation services. The company said that installing rolls of RapidTurf considerably reduces the time between planting and playing.

British Landscaping plans move across the River Welland

LINCOLNSHIRE, England — British Landscaping Equipment Co. (BLEC), having outgrown its original premises located next to the family home, have settled into a new, purpose-built factory and office/showroom facility.

The move, from the Deeping

Gate, near Peterborough, to the next-door village of Deeping St. James, actually crosses the River Welland and therefore the county boundary from Cambridgeshire to Lincolnshire, where BLEC has acquired a half-hectare site, with excellent road access.

The company said the new fa-

cilities should ensure that BLEC is equipped for expansion into the next century, while maintaining its policy of continuous development of products particularly suited to landscapers, golf and sportsfield developers and turf growers.



ITODA commits to Platinum Tee

NAPLES, Fla. — The Independent Turf & Ornamental Distributors Association (ITODA) unanimously passed a resolution to commit to membership in the Golf Course Superintendents Association of America's (GCSAA) Platinum Tee Club, the GCSAA's funding effort to advance environmental and scientific research developments in golf course management. The ITODA agreed to make this commitment at its annual fall meeting in Naples.

Pursell names new formulator

SYLACAUGA, Ala. — The Lange-Stegmann Co., a St. Louis-based fertilizer formulator, will now offer Polyon-coated controlled-release fertilizers throughout the central US.

According to Michael Stegmann, vice president of Lange-Stegmann, Polyon-coated nutrients will soon be available in many of the company's fertilizer blends, including various specialty formulations. Stegmann also announced that additional sales staff has been added to support the move.

David Pursell, president and chief executive officer of Pursell Technologies, said: "Lange-Stegmann is an outstanding company with an unparalleled reputation. Their expertise and experience will prove beneficial as we expand the availability of Polyon-coated products."



Jacklin Sheds Light On Shade Tolerant Bluegrass

NuGlade
Kentucky Bluegrass

Made For The Shade

Forget everything you know about bluegrass and shade tolerance.

The second generation of Glade is here—the latest introduction from Jacklin's Five Steps Above Program. NuGlade grows well in moderate shade, making it the perfect bluegrass for tree-lined fairways and other low-light areas. NuGlade maintains its rich, deep color, even in shadows and at low cutting heights.

This breakthrough variety better resists disease and stress even when cut at 1/2 inch.

Plant NuGlade, and you'll never be afraid of the dark again.



JACKLIN
S E E D
A DIVISION OF J.R. SIMPLOT COMPANY

MMSD

Continued from page 67

Lennert, Milorganite's sales and advertising manager. "The plant will operate in the same manner and Milorganite will be the same product it has always been."

According to United Water Resources, Milwaukee-area customers are guaranteed to save in excess of \$130 million as a result of the new contract. United Water already has agreed to hire all MMSD employees at current wages and benefits packages.

Jacklin shuffles the deck, names new roles

POST FALLS, Idaho — Jacklin Seed announced the promotion of Hiromi Yanagisawa, Tom Stoeser, Myron Lightbody, Glenn Jacklin and Doug Brede, Ph.D.

Jacklin Seed continues to expand its departments to meet the needs of the growing market.

Formerly vice president and managing director of marketing, Hiromi Yanagisawa is now senior vice president of marketing.

Tom Stoeser is now senior vice president finance, administration and acquisitions. Myron Lightbody is now senior vice president plant operation and Glenn Jacklin is now senior vice president production and grower services.

Dr. Brede is now senior vice president of research. Yanagisawa will assume overall managing responsibilities for domestic and international marketing as well as medalist America and JacklinGolf divisions.

Stoeser will manage all financial functions for Jacklin Seed and all related enti-

ties. Lightbody will manage all plant operations in Post Falls and Nezperce, Idaho, as well as Albany, Ore., and Ritzville, Wash.

Glenn Jacklin will assume overall managing responsibilities for production and grower services in Post Falls, Nezperce and Southern Idaho as well as production in Oregon and the Washington Columbia Basin. Brede will manage all research functions for Jacklin Seed and Medalist America.

Woerner adds Dillard

WEST PALM BEACH, Fla. — Woerner Sports Turf International (WSTI) has named William Dillard as manager of production operations for the company's Brookfield, Ga., turfgrass sod production facilities.

Dillard's responsibilities will include the coordination of all sodding and sprigging installation projects for Woerner Sports Turf clients.

IPM puts GPS on Web

MONCURE, N.C. — IPM Systems, Inc. has launched its Web site at <http://www.ipmsystems.com>. The new site guides viewers graphically and textual through the variety of services offered in IPM's comprehensive approach to pest management. Covered on the Web site are: global positioning satellite mapping, soil fumigation, and contract applications. IPM is a developer of products, systems, and services for domestic and international golf course and specialty markets.

Toro's green scale

Continued from page 67

reading. The numbers range from 1 to 9, 1 being brown, 9 being a deep green.

"The benefit is that the superintendent knows what will enhance their color from wherever they are," said Dara. "To this point, they didn't have a quantitative number to relate."

"It's the right thing to bring the whole course forward," said Greg Jacobs, marketing manager at Toro. "This is the ultimate test to tell whether your whole maintenance system — mowing, irrigation, nutrient application — is working together."

Toro rolled out its new turf scale at the recent Florida Turfgrass Association show with a set of equations based on Bermudagrass.

The company said it will use next month's Golf Course Superintendents Association of America (GCSAA) show to launch the program nationwide by grass type and region.

Several Florida superintendents utilizing Toro's NIRS service have been receiving the additional color number for the past two months. At this point, however, the jury is still out on just how the turf scale number can be incorporated into the maintenance routine.

"Say I'm prepping for a tournament and a member says the greens are absolutely perfect, I might go in and pull a tissue sample," said Darren Davis, superintendent at The Olde Florida Golf Club in Naples, Fla. "When greens are in terrible shape, I might pull a tissue sample for comparative reasons or to document good conditions. In that way I can see it being useful."

"I don't know exactly what it means for me yet," said Rick Tatum, superintendent at Forest Country Club in South Fort Meyers, Fla. "The few I've gotten back are in a range I feel comfortable with."

Sheldon Israelson, superintendent at the Royal Palm Yacht and Country Club in Boca Raton, Fla., foresees using the color scale as a learning tool. "When we're pulling our tissue sample we're able to reinforce what we think we're doing. We see that it could help us get more bang for the buck," said Israelson.

Attention Golf Course Superintendents and Owners OFFICIAL NOTICE

Dakota Peat and Blenders has been supplying peat for root zone mix and topdressing of golf courses across the United States and around the world for many years. Dakota Peat is the highest quality organic material available on the market according to testing done by laboratories and universities around the world. We take great pride in the work we have done to help construct and maintain some of the most popular golf courses on the planet. Our reputation is very important to us.

It has come to my attention that there are companies operating in the United States claiming to sell Dakota Peat that are not authorized representatives of Dakota Peat. We do have authorized dealers located around the country and would be happy to provide the name of the authorized dealer in your area. However, traveling blending companies headquartered in places like Wisconsin, North and South Carolina, Texas, Georgia, New Jersey, Maryland and Florida, and their affiliated sand companies, are not authorized dealers. Anyone who is not an authorized dealer and claims to be able to sell you Dakota Peat is making a fraudulent statement. You are welcome to use any organic material you wish. But, if you don't actually use Dakota Peat, Dakota Peat and Blenders can not guarantee or be held responsible for any damage to your golf course by another organic material or blending company. We would be happy to answer your questions about Dakota Peat and its distributors. Please call us at (701) 746-4300 during regular business hours.

Dakota Peat and Blenders and its distributors have served the golf and sports turf industries of the United States for more than a decade. Dakota Peat set the standard for golf course and sports turf root zones. We will continue to supply the products to take care of all your root zone mix and topdressing needs in the future. At Dakota Peat and Blenders we have worked hard to build a reputation of World Class Excellence and will continue to work to exceed your expectations. We appreciate the support you have given us through the years and look forward to servicing the needs of the golf courses of the United States and the world for many more years.



Michael Pierce
President

DAKOTA Peat & Blenders

P. O. Box 14088
Grand Forks, ND 58208
Phone: (701) 746-4300
Fax: (218) 773-3151

Turflite adds Quick Fit to vibrating greens rolling system

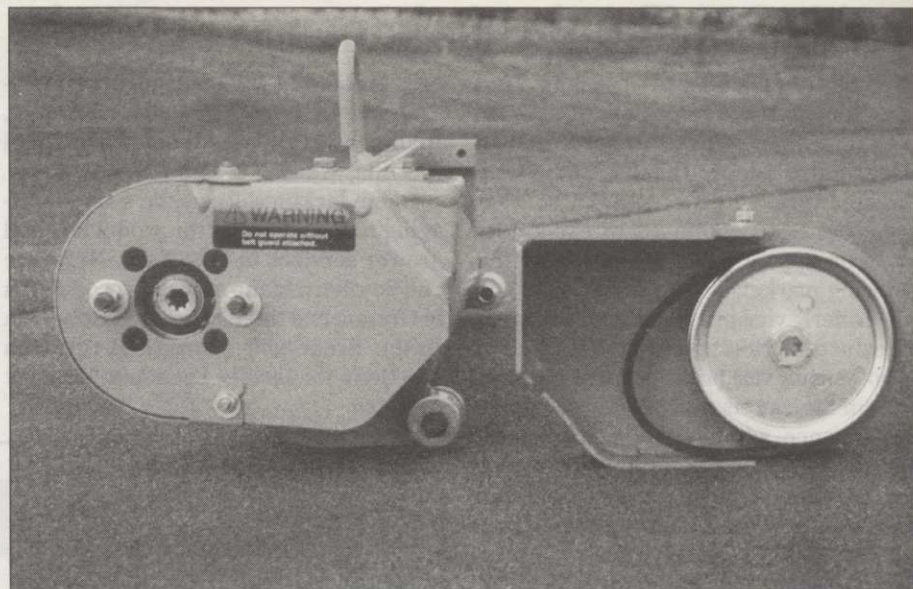
Turflite Inc., the manufacturer of the True-Surface vibrating greens rolling system, has developed the Quick Fit one-piece motor mount for its patented vibrating greens rollers. The Quick Fit allows golf course superintendents to change over cutting units to the vibrating rollers in minutes. The rolling system's vibrator drive pulley is mounted in the new motor mount, eliminating the need to align it with the shaft pulley.

The new Quick Fit allows superinten-

dents to convert their triplex greensmower into one of the most modern greens rollers available today. Superintendents can utilize the patented vibrating greens rollers for topdressing, aerification and smoothing surfaces to achieve consistent ball-roll distance on greens.

For more information on the Quick Fit vibrating greens rollers, call Turflite at 800-443-8506.

CIRCLE #201



Quick Fit offers an extension to Turflite's vibrating greens roller system

GEESE! GEESE! GEESE!



Rid your Golf Course of nuisance GEESE. Safe, harmless and effective EPA registered 'reduced risk' pesticides. Spray **ReJeX-iT® AG-36** on turf frequented by GEESE. Consult your local supplier or **RJ Advantage, Inc.** at 1 800 HAD BIRD for a supplier near you.

CIRCLE #163/GCSAA BOOTH #701

AG-AIR ready to blast

AG-AIR Mist Sprayer Technology Inc.'s new air-blast sprayers are ideal for spraying larvicides for mosquitoes, all types of pest and vector control, outdoor disinfection, plant insecticides and fungicides. The sprayers are more versatile than standard boom sprayers and are designed for use on small, medium and large tractors. The sprayers can also be used on 3-points, utility trailer units and truck pickup skid with engines.

For more information, contact AG-AIR Mist Sprayer Technology Inc. at 800-658-4471.

CIRCLE #202



AG-AIR sprayer mounted on a Foreman 400

Rodeo goes one-quart

Monsanto Company will offer its Rodeo aquatic herbicide in a new one-quart package for 1998, in addition to the 2.5- and 30-gallon containers already offered.

Ideal for small lakefronts, ponds, canals and creeks, the new one-quart Rodeo delivers one-time, roots-and-all control of over 190 tough aquatic weeds such as cattail, Johnsongrass, phragmites, torpedo grass, water lillies and water hyacinth. Because Rodeo moves throughout both plant foliage and roots, the plant will not regrow to require additional weed control efforts.

There are no irrigation, recreation or domestic use restrictions following labeled applications of Rodeo.

For additional information about the new one-quart Rodeo package, contact 800-322-3111. The package will be available this month.

CIRCLE #203

Swinger offers new versatile 3000

Swinger's new four-wheel-drive Model 3000 is an easy treading, maneuverable loader that can lift up to 3,000 lbs. It features no-skid steering for work on landscape, asphalt and other sensitive surfaces without rutting.

Ideal for contracting projects, the 3,000 has a 134" pin height, 105.5" dump height and 25-cu.-ft. bucket standard. Lift mechanism is a single lever "joystick" type. One lever controls lift, tilt and dump. Versatile quick-attach tool carrier accepts most skid steer attachments.

Auxiliary 25 gpm hydraulic system powers a variety of tools. Unique hydrostatic-over-mechanical drive system allows fast forward/reverse direction changes and simple mechanical drive from the drop box to the wheels efficiently distributes power from the 80 hp John Deere Power Tech diesel engine.

For more information, contact 715-835-6625.

CIRCLE #204

GOLF RESOURCE AGENCY INC

Providing professional golf personnel to:

Golf Course Designers, Contractors, Constructors, Developers and Golf Course Owners.

Our company is a central employment agency designed and specifically targeted at the golf industry. We offer only skilled personnel, qualified and available for employment. We include Golf Course Superintendents, Superintendents Assistants, Shapers, Irrigation Contractors and Site Superintendents.

Our personnel can be the cornerstones of your project's success.

For more information, contact us now.
Phone 250-752-8229 Fax 250-752-8230
E-mail info@golf-resources.com
Web www.golf-resources.com

CIRCLE #160

ADD COLOR to the CANVAS



GCSAA Booth # 5800/5802

YBC prides itself on its artistic ability to custom fit timber structures into any environment, while maintaining the highest construction standards in the industry.

Northern USA: (800)383-0555
Western USA: (800)474-4990
Southern USA: (800)226-4178

www.ybc.com

CIRCLE #162/GCSAA BOOTH #5800

Micro-Trak introduces its new controller: MT2400

The new MT-2400 rate controller from Micro-Trak is designed to meet the growing need of accurate and consistent chemical and anhydrous applications. The MT-2400 allows you to select between eight monitored functions: application rate, flow rate, total flow, speed, distance and area per hour, plus two separate area counters. The MT-2400 is designed for use with existing remote boom control switches and manual sprayer control systems.

The MT-2400 rate control system comes complete with console, 3/4" flowmeter, 1" servo valve, hall-effect speed and flow sensors and weatherproof connectors. Other features include a backlit LCD, lighted front panel for night operation.

For more information call Micro-Trak at 1-800-328-9613.

CIRCLE #208

Alpine unleashes its roller/spiker/drag system

Alpine Engineering Inc. has introduced the roller/spiker/drag brush system for use on selected power bunker rakes. The system features hydraulic over spring down pressure with four pivot points, assuring consistent roller and spiker contact with the green, regardless of contours or terraces.

The AEI System quickly interchanges with bunker rake with no tools required. Product testing has shown an average gain of 12 inches on Stimpmeter readings, rolling 18 average size greens in approximately 2 hours.

The AEI roller attachment rolls behind tires eliminating tire tracks with 3-22 inch independent rollers, with a total rolling width of 64 inches. The complete system with rollers weighs 135 pounds.

The AEI spiker attachment will spike an average size green in five minutes spiking over 300 slices per foot, three times that of existing spikers on the market, making it ideal for re-seeding greens or damaged areas. Spiking depth is controlled by operator via hydraulics.

The AEI drag brush attachment can be used in place of the roller or the spiker for the ultimate drag brush system to meet all your top dressing needs, especially those hard to drag-tee decks. With the down pressure controlled by the operator, the brushes can be used to lightly lift grass blades prior to mowing to help eliminate grain, or to drag in the heaviest top dressing.

For more information, contact Alpine Engineering at 307-654-7428.

CIRCLE #205

Wilbur-Ellis launch Insist

Wilbur-Ellis Company has introduced Insist, a new adjuvant spray for turf. Insist improves coverage while it retards spray drift by encapsulating the chemical molecules. Encapsulation provides more uniform droplet sizes, which withstands shear and remains at a size that promotes on-target performance. Therefore, more chemical is delivered on the plant surface with less drift.

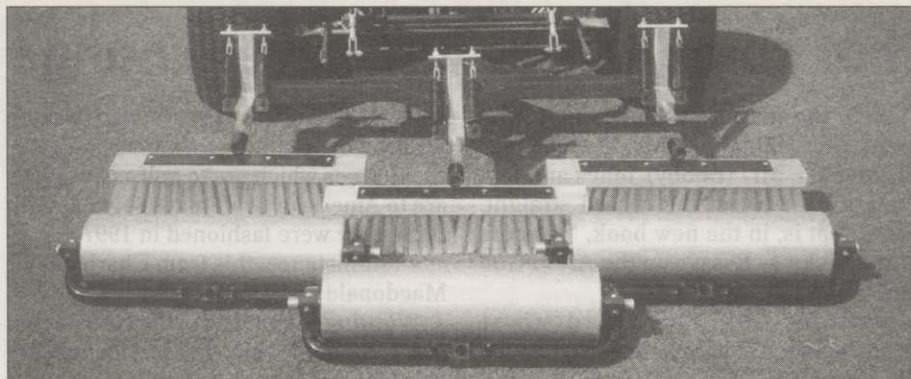
For more information, contact 209-442-1220.

CIRCLE #206

Ditch Witch introduces the new JT7020

Ditch Witch underground construction equipment has introduced the all-new JT7020 Jet Trac System. Designed from the ground up for maximum performance and productivity, the track-mounted JT7020 carries 360 feet (110 meters) of drill pipe, and features a 225 horsepower (168 kW) intercooled turbodiesel engine and enhanced hydraulics that deliver 70,000 pounds (31,752 kg) of pullback. Other productive design features include such things as a utility crane, an all-weather cab, power-assisted anchoring, hands-free pipe loading and dual-speed carriage. For more information, contact 800-654-6481.

CIRCLE #207



Alpine's roller/drag system in action behind a Toro Sand Pro.

PowerMaster is in control

Columbia ParCar introduces the new PowerMaster electronic speed control system that allows operators of electric golf cars automatic speed reduction going downhill; including the benefit of extended brake life. PowerMaster features three distinct downhill speeds provided by the shunt-wound DC traction motor. The PowerMaster electric ParCar is comparable to gasoline vehicle performance. For information, contact 800-222-4653.

CIRCLE #210

GO GLOBAL!

GOLF COURSE NEWS INTERNATIONAL



Reach 15,100 Decision Makers Throughout Europe, Asia and Canada with *Golf Course News International*.

Circulation breakdown:

Europe	6,752
Canada	2,786
Asia	5,110
South America	368
South Africa	37
U.S.A.	47
Total:	15,100

Target audience:

- Owners
- Architects
- Builders
- Course & Grounds Managers
- Club Secretaries
- General Managers
- Developers
- Green Keepers

Editorial focus:

Written for top management & developers at golf facilities in Europe, Asia, Canada & South Africa. Editorial is directed toward course management & development with reports on maintenance management and supplier business.

1998:

January

March

May

July

September

November

Call Now for More Information!

Charles von Brecht, Publisher
(207) 846-0600 • Fax: (207) 846-0657

"Masters" proves that some things just never change

By MARK LESLIE

So, you golf purists out there in Golf Kingdom think we should return to the Glory Days of the early 1900s. Those were the days, weren't they, when there were no squabbles about manmade "chocolate drops" along fairways, or all-carry shots to the green, or overwatered putting surfaces, or golfers who lamented hazards, or developers' cries of "More distance. I want more distance!"

Well, the masters themselves — you know, Mr. Tillinghast, Mr. Thomas, Mr. Macdonald, Mr. (Bobby) Jones and others are here to set the record straight. Here, that is, in the new book, "Masters of the Links — Essays on the Art of Golf and Course Design."

Edited by Geoff Shackelford, whose "The Captain" brought us insights into the life of architect George Thomas, this pot-pourri illustrates that some things never

change. Though the essays were written during golf architecture's Classic Era — those times which are to golf as the 1950s are to American Graffiti-ites — you might think they were fashioned in 1997.

• For instance, this from Charles Blair Macdonald in 1928:

"Viewing the monstrosities created on many modern golf courses, which are travesty on Nature, no golfer can but shudder for the soul of golf. It would

seem that in this striving after 'novelty and innovation,' many builders of golf courses believe they are elevating the game. But what a sad contemplation!

"Motoring to Southampton, I pass a goodly number of new courses. As I view the putting-greens it appears to me they are all built similarly, more or less of a bowl or saucer type, then built up toward the back of the green, and then scalloped with an irregular line of low, waving mounds or hillocks, the putting-green for all the world resembling a pie-faced woman with a marcel wave. I do not believe anyone ever saw in nature anything approaching these home-made putting-greens. Then, scattered over the side of the fairway, are mounds modeled after haycocks or chocolate-drops. The very soul of golf shrieks!"

• Was Robert Tyre (Bobby) Jones Jr. talking about "the masters" when he wrote this in the *USGA Green Section Bulletin* in February 1932: "Of our two great American preferences — the one for placing the green bunkering very close to the putting surfaces, and the other for soggy greens

'Motoring to Southampton, I pass a goodly number of new courses. As I view the putting-greens it appears to me they are all built similarly, more or less of a bowl or saucer type, then built up toward the back of the green, and then scalloped with an irregular line of low, waving mounds or hillocks, the putting-green for all the world resembling a pie-faced woman with a marcel wave.'

— An observation from Charles Blair Macdonald in 1928

which will hold any kind of pitch, whether struck with backspin or not — I can not say which induced the other or which came first. The close guarding, in many instances, makes a soft green necessary if the hole is to be playable, and easy pitching, on the other hand, makes it necessary to decrease the size of the target in order to supply any test. I quarrel with both ends of this proposition, whichever is to blame. These together are two reasons, I think, why our golf courses in the main lack the subtlety of the British links, and why our golf does not demand the strategy or the intelligent planning it should."

• More play and faster putting speeds, everyone says, are driving today's growing number of greens renovations and enlargements. So, you think it is a new problem? Think again, as told by George C. Thomas Jr. in *Game and Gossip Magazine's* January 1932 edition: "The old adage of golf architecture, 'the shorter the shot, the smaller the green,' has been discarded as an accepted theory, on account of increased traffic on courses. ..."

He added: "We must now supply all greens with sufficient adaptable surface frequently to change the cup. The same crowded conditions necessitate a green without too many severe rolls or undulations, for the reason that steep slopes are not practicable to pin placements."

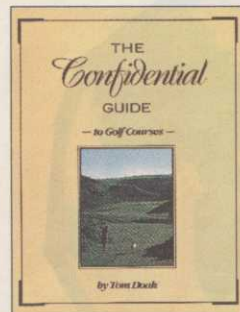
• Jack Nicklaus has taken endless flak for designing greens that demand all-

GOLF COURSE NEWS BOOKSHELF

The Confidential Guide to Golf Courses

By Tom Doak

Written in the inimitable style of *Golf Magazine's* golf course design editor, this book describes, uncovers and rates more than 1,000 courses worldwide that the author has visited and photographed.



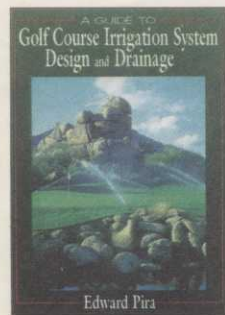
With more than 180 four-color photographs, it might be the best collection of worldwide photos ever published. It starts with a "Gourmet's Choice" selection of 31 of Doak's personal favorites, each by a different designer, followed by brief reviews of

courses from Pebble Beach, Calif., to Kebo Valley, Maine, and from St. Andrews, Scotland, to Joondalup in Western Australia.

\$45.00, 400 pages, hardcover.

Guide to Golf Course Irrigation System Design and Drainage

As a working reference or as a textbook, the *Guide to Golf Course Irrigation System Design and Drainage* covers every important aspect of the subject in an easy-to-understand format. It is perfect for the practicing turfgrass manager, superintendent, consultant, sales representative, and student. Used in numerous academic courses for years, this is the first commercially-available version of a perennial best-seller, and is completely revised with new exercises, practical examples, numerous new figures, and expanded sections covering a wide variety of irrigation system components. A hands-on manual, it guides



the reader through every phase of an irrigation program. Turfgrass managers and golf course superintendents will refer to this handy book often to plan effective irrigation systems, ensure appropriate capacity, easy installation, and practical operation and maintenance.

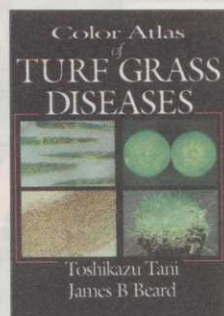
\$59.95, 400 pages, hardcover.

Color Atlas of Turfgrass Diseases on Golf Courses

By Dr. Toshikazu Tani

Contributing Author, Dr. James B. Beard

The *Color Atlas of Turfgrass Diseases on Golf Courses* presents more than 540 high-quality color photographs of all the major turfgrass diseases that occur on both warm-and cool-season grasses. It is international in scope. This book will likely become the standard color-guide to disease diagnosis and pathogen identification for golf course superintendents and turfgrass practitioners. No other book contains as many color photographs of this detail and quality. Helpful maps are included to assist in disease identification by providing geographical locations where each disease/pathogen is likely to occur. A unique feature of this easy-to-use field guide is that it also provides color photos of step-by-step guidance on diagnostic techniques for laboratory analysis which can be used by practitioners.



\$79.95, Approx. 250 pages, hardcover.

The Course Beautiful

This is a fascinating collection of original articles and photographs on golf course design by one of the masters. A prolific writer, Tillinghast delves into his philosophies on golf course design and maintenance, and his thoughts on what makes a championship course. It is loaded with vintage photographs and original Tillie sketches of such of his creations as San Francisco, Winged Foot and Baltusrol golf clubs.

\$34.95, 120 pages, hardcover.

The Captain — George C. Thomas Jr. and His Golf Architecture

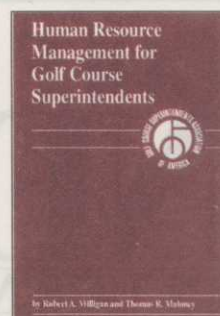
The creator of Riviera and Los Angeles country clubs and author of the classic book, *"Golf Course Architecture in America, Its Strategy and Construction,"* George Thomas has deeply affected the golf industry even since his death in 1932. Thomas worked on single projects with Donald Ross and A.W. Tillinghast, learned from friends Hugh Wilson and George Crump, and designed more than two dozen courses on his own. At the same time he was recognized worldwide for his books about and breeding of roses, his first love. Call him brilliant, or enigmatic, but in his last years his work was on a book about Pacific game fish. Shackelford reveals the man behind the work.

\$35.00, 207 pages, hardcover, limited edition of 1,200 copies.

Human Resource Management for Golf Course Superintendents

By Robert Milligan and Tom Maloney

This practical guide provides basic management principles and techniques which view people as the most important asset in golf course management. Five basic management functions are detailed throughout the book, using everyday situations to illustrate the key points.



Designed to serve as a quick reference, or as a self-teaching guide, *Human Resource Management for Golf Course Superintendents* features numerous techniques and practical examples.

Every aspect of management is covered. Learn how to improve your planning abilities, build leadership and communication skills, maximize employee performance, select and train new employees, avoid the mistakes that cause low morale and poor performance, and conduct employee performance evaluations.

Use of the methods and principles presented in this book will ensure the effective management and operation of any golf facility.

\$34.95, 150 pages, hardcover.

Turfgrass Management Information Directory

A 1,700-entry reference for turfgrass and green industry professionals, the *Turfgrass Management Information Directory* compiles the latest information and gives an at-your-fingertips list, complete with names, addresses and useful material you need every day.

The directory covers academic programs and key contacts, instructional resources including slide sets and videos, software and much more.

The section on related books provides a definitive guide to pertinent titles on diseases, weeds, insects, irrigation, pesticides and general information. Industry services such as diagnostic labs and soil-testing facilities are included.

A guide to green industry organizations gives addresses and contact names.
\$19.95, 115 pages, softcover.

Title _____	Quantity _____	Unit Price _____	Total Price _____
Title _____	Quantity _____	Unit Price _____	Total Price _____
			Subtotal _____
			Shipping(\$3.50 per book) _____
			Total Amount Enclosed _____

THREE WAYS TO ORDER FROM THE GOLF COURSE NEWS BOOKSHELF

Mail: Golf Course News, P.O. Box 997, Yarmouth, ME 04096 • Fax: 207-846-0657 • Phone: 207-846-0600

ORDERED BY:

Name _____
Organization _____
Address _____
City _____ State _____ ZIP _____
Phone: _____ Fax: _____

SHIP TO:

Name _____
Organization _____
Address _____
City _____ State _____ ZIP _____
Phone: _____ Fax: _____

Note: Only orders prepaid in U.S. funds can be accepted. Please do not send cash.

Payment method: Visa Mastercard American Express Check/Money Order
Account # _____ Exp. date _____ Name on Card _____ Signature _____

AD INDEX

158	AEK Computers	62
127	American Cyanamid*	44 • Booth #3327
128	American Cyanamid	66 • Booth #3327
129	The Andersons	50 • Booth #3267
159	Aqua Gen	62 • Booth #2874
164	AquaMaster	76 • Booth #3777
161	Arnold Palmer Golf Management	62
103	Bayer Corporation	40-41 • Booth #809
—	Bayer Corporation	29 • Booth #809
165	Bearcom	76 • Booth #3286-3288
130	Buckner/Legacy	8
167	Continental Bridge	76
122	Dakota Peat & Blenders	71 • Booth #1873
104	Dow AgroSciences	10-11 • Booth #210
168	Eagle Golf & Landscape Products	77
169	EcoTurf, Inc.	77 • Booth #224
170	Enwood Structures	77
171	Excel Bridge Mfg.	76 • Booth #2153
118	Flowtronex PSI	3 • Booth #817
112	FMAC Golf Finance Group	18
119	Fore Par	30 • Booth #805
172	Formost Construction Co.	76
173	GCSinc./Golf Course Solutions	76 • Booth #1177
123	Glenmac	68
113	Golf Asia '98	69
160	Golf Resource Agency Inc.	72
174	Grass Craft	76 • Booth #3820-3822
175	Harrington/Harco Corporation	77 • Booth #650-652
124	Hydro Agri North America, Inc.	49
155	IGM	48
—	ISK Biosciences Corp.*	9 • Booth #3750
131	Jacklin Seed Co.	33 • Booth #3577
120	Jacklin Seed Co.	52-53 • Booth #3577
132	Jacklin Seed Co.	45 • Booth #3577
133	Jacklin Seed Co.	70 • Booth #3577
114	Jacobsen	80 • Booth #1518
176	Jesco Products/Pinhigh	77
105	John Deere	6-7 • Booth #2617
177	Kirby Markers	77 • Booth #3721
125	Kubota	25 • Booth #1333
134	Lester Electrical of Nebraska	55 • Booth #2502
152	Markers, Inc.	59 • Booth #1475
156	Martin Marietta Magnesia Specialties	48
178	Master of the Links	77 • Booth #808
157	Mid-Atlantic Equipment Corp.	78
154	National Mower	42 • Booth #3441
153	Nations Credit Comm. Corp.	32
182	New England Turfgrass Conference*	44
—	NOVARTIS	15 • Booth #1805
—	NOVARTIS	16-17 • Booth #1805
135	Nutramax	56 • Booth #457-459
150	Par Aide	60 • Booth #2805
126	PBI/Gordon Corporation	54 • Booth #3249
115	PGA of America	79
136	Prolink	63
102	Pursell Industries	20-21
179	Quail Valley Farms	77
106	Ransomes, Ransomes Corp.	12-13 • Booth #619
151	Redexim Charterhouse	43
137	Regal Chemical	58 • Booth #1810
107	Rhone-Poulenc	38-39 • Booth #308
—	RISE*	26-27
163	RJ Advantage	72 • Booth #701
138	Rohm & Haas	37 • Booth #2340
108	Rohmid LLC*	26-27
139	Roots, Inc.	57 • Booth #1853-1855
180	Ryan Inc. Central	76
109	The Scotts Company	4-5 • Booth #2605
140	Seed Research of Oregon	51 • Booth #1205
141	Smithco	35 • Booth #1510
142	Smithco	64 • Booth #1510
121	Southern Golf Products	24 • Booth #3231
143	Standard Golf	36 • Booth #3635
181	Steadfast Bridge Co.	77 • Booth #471
116	Syncroflo*	31 • Booth #1405
117	Tee-2-Green	2 • Booth #1830
—	Terra Industries	33 • Booth #3820
144	Toro BioPro	34 • Booth #3741
145	Toro Comm'l. Prod. Div.	29
146	Turf Diagnostics and Design	65
147	Turf Merchants	28 • Booth #1353
148	United Horticultural Supply	9 • Booth #2247
162	York Bridge Concepts	72 • Booth #5800
149	Zeneca Professional Products	46 • Booth #3359
110	Zeneca Professional Products	22-23 • Booth #3359

*Appears in regional editions.

Golf Course Classifieds

To reserve space in this section, call 207-846-0600 ext. 230

HELP WANTED

IRRIGATION MANAGEMENT PROGRAM INSTR/COORD.

LAKE CITY COMMUNITY COLLEGE is seeking qualified candidates for an Irrigation Management Program Instructor/Coordinator. Grant Funded Temporary Position (231 Duty Days). Minimum requirements Bachelor's degree and two (2) years experience in irrigation design, installation and repair in golf/landscape industries. Salary Negotiable, based on degree and experience, plus benefits. Position will remain open until filled. **Applications should be submitted to: Human Resources Development, Lake City Community College, Route 19, Box 1030, Lake City, FL 32025-8703, (904) 752-1822, Ext. 1314.** VP/ADA/EO/EA College in Education and Employment.

REGIONAL SALES MANAGER

Legacy Golf Irrigation, the fastest growing company in the golf course irrigation industry, has an opening for a golf industry professional for our Northeast Region. The ideal candidate will possess at least 5 years experience in the golf or irrigation industry, strong computer skills, and a willingness to travel a multi-state area calling on architects, irrigation consultants, builders, and distributors. **Mail resume to: Jon Truttman, 4381 N. Brawley Ave, Fresno, CA, 93722 or fax to 414-242-0177.**

TURFGRASS GROUNDS MAINTENANCE/ MANAGEMENT AGENT

Penn State Cooperative Extension is seeking an individual to plan, implement, conduct and evaluate Extension educational program in the broad areas of turfgrass culture and management, working with commercial and residential lawn care firms, industrial, commercial, and residential grounds managers, municipal park and open space management, athletic field managers, golf course operators and sod producers. Identify problems, opportunities and educational needs of clientele in the multi-county area of Schuylkill, Northampton, Lehigh, Berks, Bucks, Chester, Delaware, Montgomery and Philadelphia. This position will be based in Delaware County. Candidates must have a Bachelor's degree in Agronomy, Turfgrass Science, Soil Science, Plant Science or Horticulture. Candidates who have related work experience in turf production, turf or grounds maintenance, garden center operations or other related experience are encouraged to apply. Candidates should possess effective program development, teaching and evaluation skills, and demonstrate positive human relations and effective communication skills. Salary will be commensurate with education and experience. Delaware County Cooperative Extension is a unit of Penn State and as such offers a competitive salary and a liberal benefits package. The closing date for accepting resumes and applications is January 31, 1998 or until a suitable candidate is found. Applications are available by writing or calling Human Resource Services (814/863-3452), Box 3STF, 307 Agricultural Administration Building, The Pennsylvania State University, University Park, PA 16802. AA/EOE

SHAPERS WANTED

Golf Course Construction Shaper Needed. Must be willing to travel. **Fax resume and date available to 912-382-9876.**

FIELD SALES REPRESENTATIVE

Field Sales Representative needed to handle all aspects of sales of John Deere Golf & Turf Product in Northern New England Territory. The successful candidate will be people oriented and have a minimum of two years experience in the "Turf" business. Base salary, lucrative commission plan, benefits, company vehicle. **Send resumes to Steve Huss, Hawkens Equipment Co., Inc., P.O. Box 766 Plymouth, NH 03264.**

HELP WANTED

GOLF COURSE IRRIGATION

Field Superintendent/Equipment Operator. Minimum 3 years experience in golf course irrigation. Must be reliable and willing to travel. **Call 912-391-0507.**

INSTRUCTOR

Turf Equipment Management (201 Duty Days) Tenured Track

Responsible for teaching all phases of **shop management, turf management and turf equipment maintenance and repair.**

Qualifications: Vocational certificate in mechanics plus two (2) years work experience or five (5) years work experience in mechanics. Degree, teaching experience two (2) or more years as head equipment technician in large modern shop **a plus.**

Salary: Negotiable—based on experience/education, plus benefits.

Open: Until filled.

Submit application/resume to:

Lake City Community College
Rt. 19, Box 1030
Lake City, FL 32025-8703
Phone: (904) 752-1822 ext. 1314
Fax: (904) 755-1521

VP/ADA/EO/EA/College in Education & Employment

FOR SALE

ARCH STYLE STEEL BUILDINGS

Build it yourself and save money! For cart and equipment storage. Factory direct. Save money on buildings in stock. 30 x 40; 40 x 50; 42 x 76; 51 x 90. Easy to erect. **Archway Steel Buildings: 1-800-344-2724.**

SERVICES

PERSONALIZED GOLF FLAGS

by DuPont Solar Max Nylon

BRITISH POLES

Buy Direct and Save
1-800-476-7005

LASER MEASURING

Laser measuring and sprinkler yardage markers. We do it all! Laser measure & installation of custom metal yardage markers for all types of sprinkler heads. **Fairway Yardage Designs: 1-800-368-2448.**

POND & LAKE LINERS

- Buy Direct from fabricator 20, 30, 40 mil PVC, Hypalon, HDPE, & P.P.
- Custom fabricated panels of up to 25,000 S.F. available.
- Material Only, Material & Supervision, or Complete Installation service.
- We'll fill your lake guaranteed.



1-800-524-8672

1062 Singing Hills Road • Parker, CO 80134
303-841-2022 • Fax 303-841-5780

SERVICES

We'll Seal Your Lake Empty or Full!

ESS-13 Eliminates The Need For A Synthetic Lake Liner

Seepage Control, Inc.

P.O. Box 51177
Phoenix, Arizona 85076-1177
800-214-9640 Fax 602-829-1106

Since 1958

BIRD AND BAT HOUSES



- Wildlife Feeders
- Over 70 Items
- Free Catalog
- 1-800-326-2807

Coveside Conservation Products

GRUND GUIDE

SINCE 1987

Complete Marker Systems

- Sprinkler Yardage • Practice Range
- Cart Path • Fairway & Tee Plaque
- NEW! Sprinkler ID (zone, control box, recycled water)

Laser Measurement Services

- We Measure • Laser Rental

Golf Print Services



"The Yardage Detectives"
(800) 971-7233 FAX (626) 969-3724

Booth #3894 at the GCSAA show

SOLID BRONZE SIGNAGE

- Yardage Markers
- Tee Signs
- 100, 150, 200
- Commemorative
- Laser Measuring
- Sprinkler Tagging
- Yardage Books

FROM TEE TO GREEN, INC.

(800) 932-5223
Fax: (219) 637-6874

HOW TO ORDER A CLASSIFIED AD

RATES: \$90 per column inch (25-35 words, including a bold headline). Each additional 1/4 inch is \$30. If ordering a logo, please include an extra \$45; for a blind box, please include an extra \$20. All line ads must be prepaid. All rates are per insertion.

To place your classified ad, mail your ad copy with payment to:

Jean Andrews
Golf Course News
PO Box 997, 106 Lafayette St.
Yarmouth, ME 04096
or fax to: (207) 846-0657

11-15 — National Institute of Golf Management's 15th Annual Education Program in Wheeling, W. Va. Contact Oglebay Resort's Department of Continuing Education at 800-624-6988, ext. 4019.

12-13 — GCSAA Seminar on Golf Course Restoration, Renovation and Construction Projects in Atlanta.*

12-13 — Arkansas Turfgrass Association 10th Annual Conference and Trade Show in Little Rock. Contact Angie McSwain at 501-664-8048.

12-16 — Cornell Turfgrass Management Short Course in Ithaca, N.Y. Contact 607-255-1792.

13 — GCSAA Seminar on The Microbiology of Turfgrass Soils in Pittsburgh.*

14-18 — Sports Turf Managers Association National Conference in Orlando, Fla. Contact 800-823-3875.

15-17 — Mid-America Horticultural Trade Show in Chicago. Contact 847-526-2010.

16 — GCSAA Seminar on The Microbiology of Turfgrass Soils in Columbus, Ohio.*

19 — GCSAA Seminar on Design, Construction and Maintenance of Chemical Storage Facilities in Indianapolis.*

19 — GCSAA Seminar on The Superintendent as Grow-In Manager in Richmond, Va.*

19-20 — GCSAA Seminar on Golf Course Design Principles in Poughkeepsie, N.Y.*

19-21 — 38th Annual Virginia Turfgrass & Landscape Conference & Trade Show in Richmond. Contact Susan Floyd at 540-942-8873.

19-22 — 68th Annual Michigan Turfgrass Conference in Lansing. Contact Kay at 517-321-1660.

19-23 — Club Managers Association of America World Conference in Las Vegas. Contact Tamara Tyrell at 703-739-9500.

19-23 — Cornell Turfgrass Management Short Course in Ithaca, N.Y. Contact 607-255-1792.

20-21 — GCSAA Seminar on Design, Construction and Renovation for IPM in Colorado Springs, Colo.*

20-21 — GCSAA Seminar on Disease Identification and Control in Meriden, Conn.*

20-22 — Midwest Turf Expo in Indianapolis. Contact Bev Bratton at 765-494-8039.

23 — GCSAA Seminar on Turfgrass Ecology in Lansing, Mich.*

24 — USGA Annual Meeting in Tucson, Ariz. Contact 904-234-2300.

24-29 — National Golf Course Owners Association Annual Conference/Trade Show in Fort Lauderdale, Fla. Contact 803-881-9956.

26-28 — Iowa Turfgrass Conference & Trade Show in Des Moines.

27-28 — GCSAA Seminar on Managerial Productivity in Manchester, N.H.*

28-31 — Professional Lawn Care Association of America Management Conference & Golf Classic in San Diego. Contact Michael Gaffey at 800-458-3466.

29 — Northeastern Pennsylvania Turfgrass & Grounds Maintenance School in White Haven, Pa. Contact Andrew McNitt at 814-863-1368.

2-8 — GCSAA's 69th International Golf Course Conference and Show in Anaheim, Calif.*

5 — Annual Lawn Care Seminar in Auburn, Mass. Contact Karen Connelly at 508-287-0127.

13-15 — 15th Annual Chicago Golf Show in Rosemont. Contact Ricky Iovino at 800-781-6083.

16-20 — Long Island Turfgrass Management Short

Golf Course Marketplace

To reserve space in this section, call Jean Andrews, 207-846-0600

EXCEL BRIDGE MANUFACTURING CO.

Specializing in golf course/ park/ bike trail bridges and using a variety of materials to suit your particular landscape needs, we fabricate easy-to-install, pre-engineered spans and deliver them anywhere in North America.



The Macho Combo: Combines the beauty of wood and the strength of maintenance free self-weathering steel. Bridge designed by Golf Dimensions.

800-548-0054 (outside California)

12001 Shoemaker Avenue, Santa Fe Springs, CA 90670
Tel: 562-944-0701 Fax: 562-944-4025

CIRCLE #171/GCSAA BOOTH #2153

Ball Washer Refurbishment

- **Ball washers, benches, tee markers, etc.** restored to like new condition for a fraction of the cost of new.
- **Saves money over in house refurbishment.**
- **Reduces time demands on staff as GCSinc. manages the process from disassembly through re-assembly.**
- **Includes; sandblasting, welding & powder coating.**
- **Service Nationwide... Representative Inquires Welcome.**

Golf Course Solutions 714-427-5400 (fax) 5411
2127 S. Grand Ave., Santa Ana, CA 92705

CIRCLE #173/GCSAA BOOTH #1177



Ryan Incorporated Central

COMPLETE GOLF COURSE CONSTRUCTION
We have the supervision, experienced personnel, and equipment to meet the tightest schedule while producing the highest quality work.

Janesville, Wisconsin Washington, DC
Patrick Ryan, 608-754-2291 David Ryan, 301-874-5119

Certified Charter Member of Golf Course Builders Association of America

CIRCLE #180

LIST RENTAL

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

...offers you the opportunity to reach the decision makers at thousands of golf facilities with an exclusive mailing list.

Call for details . . .
207-846-0600

MAXON SP100

4 CHANNELS, PL, SCAN

\$199.75 VHF
UHF \$209.75

Call Nationwide Toll-Free
1-800-527-1670

BEARCOM

11545 Pagemill Rd. Dallas, TX 75243 • 214-340-8876 Fax: 214-349-8950

CIRCLE #165/GCSAA BOOTH #3286-3288

AQUA MASTER AQUA MASTER AQUA MASTER AQUA MASTER AQUA MASTER

BEAUTY BY AQUA MASTER.

FOUNTAIN AERATORS

- UL Listed
- Lighting Packages
- 3 Year Motor Warranty
- Interchangeable Nozzles

Superior Aquatic Management Systems

16024 CTH X, Kiel, WI 53042
PH. 920 693-3121
FAX 920 693-3634
www.aquamasterfountains.com

1-800-693-3144

AQUA MASTER AQUA MASTER AQUA MASTER AQUA MASTER AQUA MASTER

CIRCLE #164/GCSAA BOOTH #3777

GRASS-CRAFT HOVER MOWERS



4 CYCLE 5 HP
Features positive pressure oil pump

FORWARD MOUNTED OIL RESERVOIR
Keeps reservoir full when mowing down inclines



2 NEW MODELS

ROBIN ENGINE

- 2 HP
- 16 inch cut
- 22 lbs

SUZUKI ENGINE

- 3.8 HP
- 19 inch cut
- safety cutter disc

POLYETHYLENE DECK
Deck won't crack or break

GCSAA Booth #3820 - 3822 87 Bell Street., Portland, ME 04103
TOLL FREE 1-800-760-1680 • Fax: 207-878-9109

CIRCLE #174/GCSAA BOOTH #3820-3822

STAY ON COURSE...

WITH **GOLF COURSE NEWS** ONLINE
THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY
www.golfcoursenews.com

Nationwide delivery • Install in less than two hours

Golf Course Bridges!

1-800-328-2047

Thousands in use.
Built to last.

CONTINENTAL BRIDGE

Route 5, Box 178, Alexandria, MN 56308 • (612) 852-7500

Sponsor Member

NATIONAL GOLF FOUNDATION

B-DA-CL

CIRCLE #167/GCSAA BOOTH #2266

Formost Construction Co.

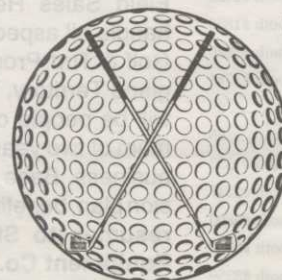
Serving the nation for over 30 years.

Golf Course Builders
"Doing One Thing Well"

P.O. BOX 559
TEMECULA, CALIFORNIA 92593

(909) 698-7270
FAX (909) 698-6170

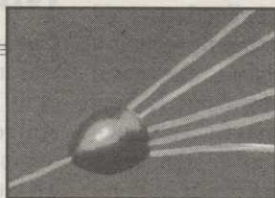
STATE LIC. #267960



CIRCLE #172

TURN ON THE PRESSURE

You have **THE BULLET**.
This tile cleaning nozzle flushes
the sand and dirt from drain lines
— there are five flushing nozzles
and one lead (cutting) nozzle.
NOW LET THE WATER FLOW!



Ask Your Golf Course Distributor for
INNOVATIVE MAINTENANCE PRODUCTS

From *Master of the Links*

P.O. Box 1865, Lombard, IL 60148-1865
630-627-1100 • Fax 630-627-1104



CIRCLE #178/GCSAA BOOTH #808

119 40th St. NE



Fort Payne, AL
35967

"DELIVERED ACROSS AMERICA"

PEDESTRIAN AND SINGLE LANE
VEHICULAR BRIDGES
ENGINEERED AND FABRICATED
TO YOUR SPECIFIC
REQUIREMENTS. CLEAR SPANS
TO 220 FEET AVAILABLE IN MOST
OF OUR STYLES. FACTORY
DIRECT.



1-800-749-7515
www.steadfastbridge.com

10' 6" X 250' CONNECTOR SERIES
ADMIRALS COVE • JUPITER, FL

CIRCLE #181/GCSAA BOOTH #471

You'll want to play
barefoot on our
certified grasses.



Featuring

- Tifton 419
- Midlawn
- El Toro Zoysia
- Meyer Z-52 Zoysia
- Sprig Planting Service
- Laying Machinery Rentals
- Row Planting Service
- Lay and Play Fairway Cuts (warm season)
- Pads
- Big Rolls

P.O. BOX 56440 • LITTLE ROCK, AR 72215

1-800-666-0007 501-280-0763 www.quailvalley.com

Quail Valley GRASSES

SPORTS • GOLF • COMMERCIAL • RESIDENTIAL • SOD PRODUCERS

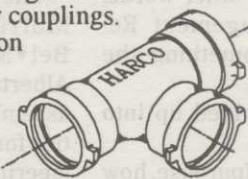
barefoot walkin' thick

CIRCLE #179

HARCO DUCTILE IRON FITTINGS FOR GOLF COURSE IRRIGATION SYSTEMS

Sizes 2" through 12", all configurations
including "knock-on" repair couplings.
High Strength, high corrosion
resistance.

The Harrington Corporation
P.O. Box 10335
Lynchburg, Va 24506
804-845-7094 Fax 845-8562



CIRCLE #175/GCSAA BOOTH #650-652

Featuring:



Drain Pipe

Nyoplast Drains

NDS Drains

Geotextiles

Lake & Pond
Liners

Silt & Safety
Fences

Serving the Golf Construction Industry Worldwide

**EAGLE GOLF
&
LANDSCAPE PRODUCTS**
1-800-21-EAGLE



**Eagle Interface for
Greens Construction**

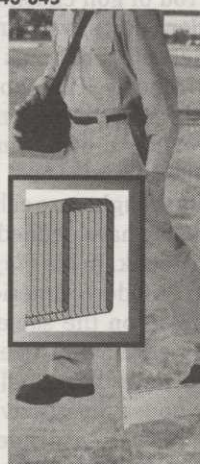
CIRCLE #168/GCSAA BOOTH #843-845

FAST, EFFICIENT & SAFE

TurfToc
THE BIODEGRADABLE
TURF STAPLE SYSTEM

Secures turf effortlessly
NO MORE back breaking labor
NO MORE mower damage
ENVIRONMENTALLY FRIENDLY

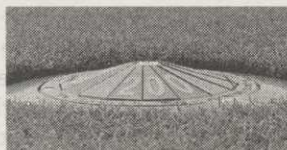
EcoTurf, Inc. 888-TurfToc
300 N. ELIZABETH ST., DEPT. GCN, CHICAGO, IL 60607
312-226-0099 • FAX 312-226-2480



CIRCLE #169/GCSAA BOOTH #224

A Visible Marking System You Can Mow Right Over

- ◆ Speeds up play - Reduces playing time up to 30 minutes per round
- ◆ Cost effective - Pays for itself in months - Lasts for years
- ◆ More enjoyment - No pacing and hunting for sprinkler heads
- ◆ Available in all colors
- ◆ Proven at thousands of courses around the world



The Kirby Marker System

760-931-2624 • 800-925-4729 • Fax 760-931-1753

CIRCLE #177/GCSAA BOOTH #3721

Quality with a Twist

A twist of our easy off
lid gives you quick
access to Pinhigh's
quality reel sharp-
ening compound.

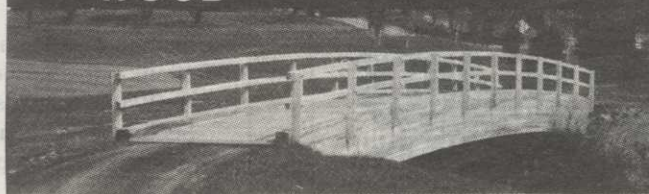
pinhigh
reel sharpening compound

Call 1 (800) 422-4748



CIRCLE #176

LAMINATED WOOD BRIDGES



PEDESTRIAN & VEHICULAR
Order Direct From The Leading Manufacturer in U.S.

- Complete Prefabricated Packages
- Direct Distribution Throughout the U.S.
- Ready for Fast Erection
- Custom Design & Engineering



CALL 800-777-8648

P.O. Box A • Morrisville, NC 27560
Tel. 919/467-6155 • FAX 919/469-2536

CIRCLE #170

Inside Info

Get the jump on your competition by subscribing to the
Golf Course News Development Letter

This twice-monthly newsletter...

- tracks golf course projects under consideration across the nation
- is packed with news items detailing where and when projects will be undertaken, and by whom
- is just \$225 for a year's subscription

For more information contact
Editor Peter Blais at 207/846-0600

Course on Long Island, N.Y. Contact Cornell University at 607-255-1792.

18 — Connecticut Turf & Landscape Conference in Hartford. Contact Lauren Riccio at 203-699-9912.

23-24 — Turf and Grounds Exposition II in Suffern, N.Y. Contact NYSTA at 800-873-8873.

23-27 — Long Island Turfgrass Management Short Course on Long Island, N.Y. Contact Cornell University at 607-255-1792.

24 — GCSAA Seminar on Enhancing Your Value as a Professional Golf Course Superintendent in Bloomington, Ill. *

24-25 — GCSAA Seminar on Golf Course Construction Techniques and Management in Albany, N.Y. *

24-26 — Western Pennsylvania Turf Conference and Trade Show in Monroeville, Pa. Contact Eric Oesterling at 412-837-1402.

25 — GCSAA Seminar on Preventive Maintenance of Turf Equipment in Bloomington, Ill.

27 — Ecological Landscaping Association Winter Conference in Boxborough, Mass. Contact Nancy Askin at 978-897-7490.

27-March 1 — West Michigan Golf Show in Grand Rapids. Contact 616-247-1931.

March

2 — GCSAA Seminar on Design, Construction and Maintenance of Chemical Storage Facilities in Providence, R.I. *

2 — GCSAA Seminar on The Superintendent as Grow-in Manager in Sioux Falls, S.D. *

2-3 — GCSAA Seminar on Managerial Productivity in York, Pa. *

3 — GCSAA Seminar on Enhancing Your Value as a Professional Golf Course Superintendent in Gaylord, Mich. *

3-4 — GCSAA Seminar on Managing People for Peak Performance and Job Satisfaction in St. Louis, Mo. *

3-5 — New England Regional Turf Conference in Providence, R.I. Contact 401-848-0004.

4 — GCSAA Seminar on Employee Safety Training in Gaylord, Mich. *

6 — GCSAA Seminar on Wildlife Management and Habitat Conservation in Cleveland. *

7-10 — Canadian International Turfgrass Conference & Trade Show in Calgary, Alberta, Canada. Contact 800-387-1056.

9 — GCSAA Seminar on Turfgrass Stress Management in Birmingham, Ala. *

10 — Community Tree Conference in Amherst, Mass. Contact Dennis Ryan at 413-545-6626.

10 — GCSAA Seminar on Preventive Maintenance of Turf Equipment in Johnstown, Pa. *

10-11 — GCSAA Seminar on Managing People for Peak Performance and Job Satisfaction in Minneapolis. *

11 — GCSAA Seminar on The Microbiology of Turfgrass Soils in Cincinnati. *

17 — GCSAA Seminar on Enhancing Your Value as a Professional Golf Course Superintendent in Lake Harmony, Pa. *

17 — GCSAA Seminar on Wetlands and Golf Courses in Manchester, Vt. *

17-18 — GCSAA Seminar on Spanish for Golf Course Management I in Palm Desert, Calif. *

* For more information contact the GCSAA Education Office at 800-472-7878.

"Masters"

Continued from page 74

carry shots. So, you think Mr. Nicklaus invented this design? Think again, as you read what William S. Flynn wrote in the *USGA Green Section Bulletin* in October 1927:

"America has developed a more or less stereotyped shot to the green that is the high, all-carry shot. This has been brought about, no doubt, by the fact that fairways and particularly approaches have gone unwatered during the summer when the ground has become hard. It is much simpler to play a high carry shot to a soft green which gets water than to attempt a pitch-and-run to a green with a cement-like approach."

• And, is it a new thing to have equipment changes affect course design? Here's Thomas again, zeroing in on the U.S. Golf Association's regulations levied on golf balls: "These changes ... make the problem of the constructor more confused than ever, because he must endeavor to prepare his entire course for a variable standard, and must provide, for the exasperating problem, a green which later will take care of any oval, balloon, or cannon-ball upon which the governing body may insist."

Don't you just love it?

Other insights abound, and many will take you aback. For instance, what would A.W. Tillinghast have thought about today's penchant for 7,000-yard courses? "The fetish of distance is worshipped entirely too often and there should be a quick end to it," he wrote in *Golf Illustrated* in March 1935. "Very recently, in California during one of the open tournaments, we heard a noted player asked his opinion of the course. 'It's too damned long' came the instant and candid reply — and this answer was made by one of the longest hitters in our land. And with

this note of confidence from one for whom long holes have no terrors, we are for the present content to rest our case."

Also, we hear the claim that today's golfers — especially Americans — are wimps. If so by 1990s standards, how would they have fared in 1935 when Tillinghast wrote: "No doubt, many of the hazard-shirking fraternity would declare that playing a wayward ball from such places was entirely too difficult. What utter nonsense! There were and are shots that will do it; another generation knew how to play them, and it is not altogether pleasant to think that golfers of today are going soft. Possibly a bit more sting in the rod of golf chastisement in these, or modern times, would render it more of an achievement to break par so habitually."

Obviously, Tilly thought the golfers of his day were thin-skinned about playing the ball as it lies, compared to their colleagues of the past.

His thoughts are echoed by Tom Doak, who may have penned my favorite quote in the book. In his *Play It as It Lies*, Doak said: "Modern American golf design is modeled on the same principles as our ailing criminal justice system: We build more water hazards [prisons], but they only house the disadvantaged, while the elite receive suspended sentences."

No self-respecting retrospective would leave out the great Dr. Alister MacKenzie. Here, MacKenzie wrote in the January 1934 edition of *Golfing Magazine* that any artificial lake should have a clear bottom so that balls can be recovered. "There is no thrill in driving over an ugly hazard," he said. To make his point he recalled many years ago "seeing a peppery Major at Strensall in Yorkshire, England, top three balls into an extremely muddy pond. The ugliness of the hazard and his bad play irritated him so much that he threw his club after his ball, then he threw his whole bag in and when his small caddie

began to laugh he chuckled him in, too!"

And no self-respecting collection would be without an introspective description of St. Andrews and its place in the world of golf. This one comes from Robert Hunter, who at times assisted MacKenzie and H. Chandler Egan in design, as it appeared in *The American Golfer* in January 1927:

"Where else in the world do we find a course to which all great players journey and where all ages and abilities meet and all praise with equal fervor? What other course can we all name which defies the champions and yet delights tottering old age? What other course can be played with a putter — the Swilken Burn being, in that case, the only serious obstacle — and at the same time be spoken of, by those qualified to speak, as the best course in the world..."

"Every time I visit St. Andrews my love and admiration for it increase. I should rather play that course for the rest of my life than any other I know. I should never grow weary of it; nor should I ever conquer it; and every round would whet my appetite to tackle it again on the morrow."

GUEST COMMENTARY

Canada

Continued from page 14

Manual will incorporate the CGSA mission statement into practice. That is, the CGSA is a society committed to excellence in golf course management and environmental responsibility through the continuing professional development of its members.

A "user-friendly" theme will focus on interpreting environmental law into laymen's terms, while clearly outlining requirements of what must and should be done to be in compliance.

Due to the sheer amount of information gathered, teaching aids such as "Did You Know ..." and "Plain English, Eh!" are used to make an easy-to-read format. In addition to a glossary, numerous "Q&A" scenarios will be brought forward, as well as professional insight from industry leaders, such as golf course architects, engineers and turf advisors. In other words, the Environmental Management Resource Manual will be something the membership will use.

The manual is to be divided up into nine parts:

Section 1 — Introduction (purpose, how to use the manual)

Section 2 — An Explanation of Regulatory Requirements (i.e. municipal, provincial and federal)

Section 3 — Important Steps To Avoid Being Investigated

Section 4 — Maintenance Facility Operations (includes pesticide licensing requirements, to fuel storage)

Section 5 — Course Renovation and Redesign (includes permit requirements, to erosion control)

Section 6 — Environmental Monitoring (i.e. pesticide and fertilizer nutrients)

Section 7 — IPM

Section 8 — Environmental Enhancement Projects (i.e. Audubon Cooperative Sanctuary Program and the Golf Course

N.D. getting ready

Continued from page 45

was under water for 40 days. Superintendent Mark Lindberg said the course is still recovering. One-hundred acres were overseeded with rye grass for fast growth. These have to be overseeded with the normal bluegrass/fescue mix.

"Although," said Linberg, "if it's going to keep flooding, we may keep it in rye."

About 10 percent of the roughs have yet to be reseeded. The course opened in early July, and because of the silt which remained after cleaning, "pick and clean" was the name of the game.

Course mechanic Doug Klemetson related that walk-behind, rather than triplex mowers, were used on the greens, of which only four survived the flood. He described the course as being in bowl, with a protective dike of 28 feet. Water above that level comes in from all directions, and with the river at 54 feet, there was no protection.

At the Grand Forks Country Club, where damages were in the quarter million dollar area, the pumphouse and computer system were wasted, said mechanic Dan Knoblich.

Superintendents Association of America's Steward Awards)

Section 9 — Communication (with members, media and the general public)

Sections 4-7 will conform to the following structure:

1) Introduction.

2) Regulatory Requirements to summarize how the topic is governed in Canada and by whom (i.e. municipalities, provincial bodies, or federal institutions).

3) Standard Operating Practices is the heart of each topic. Figures, tables, contact numbers for individual provinces

and discussions of all relevant issues are discussed here.

4) Colleague Examples outline what the industry has adopted from legislative requirements. Pro-active superintendents' case histories are included, as well as industry leaders' opinions on the subject matter.

The project team consists of Kirk Morrison (co-writer), President of Bel•MK Engineering Ltd., Calgary, Alberta, who has extensive experience in assembling environmental codes of practice for a number of industries, and me. A steering committee has been comprised for editing purposes and is headed by Environmental Committee Chairman Jay Leach (CGSA's Alberta director), superintendent at Cottonwood Golf and Country Club in Dewinton, Alberta, and includes golf course superintendents across the country.

Both the steering committee and writers were intentionally chosen from all sides of the country in order to create a holistic document that would have a national focus.

It is nearing its completion, and sponsorship opportunities are still available for the copy, binding and distribution process. Interested industry affiliates should contact Vince Gillis, CGSA executive director, at 905-602-8873.



Mark Scenna

Save nearly 50% on golf cart parts.



When you really need parts, they better be reliable. Of course, you could go "factory original", but when "knock-offs" will do, it just makes sense to save. Sometimes as much as 50%.

At Mid-Atlantic, we fix more golf carts than anyone in the country. As one of the world's

largest golf cart dealers in our own right, representing Yamaha and E-Z-GO, we have 1.5 million dollars in parts inventory on site.

Sure there are other people you can call for parts but nobody who has the experience and selection we can offer you for all types of golf carts. It's time for you to give a new source a try.

**MID-ATLANTIC
EQUIPMENT
CORPORATION**

Part of the Boyce Group

1-800-526-7278

Fax: (610) 489-9478

<http://www.golfcart.com>

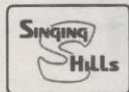
Order by phone: 24 hour
turnaround guaranteed.
VISA & MasterCard Accepted

PROBODAL

Are you frustrated trying to find a good golf professional for your facility?



Let PGA CareerLinks help you as it has helped some of these fine clubs throughout the United States.



Hiring the best golf professional for your facility is easy when you use PGA CareerLinks. Tell us what skills and experience you seek in your professional and PGA CareerLinks does the rest.

The service is fast, free and only takes a phone call.

1-800-314-2713



CareerLinks

PGA CareerLinks. Golf's Best Jobs. Golf's Best People.

THE PROFESSIONAL'S CHOICE ON TURF

JACOBSEN

TEXTRON

800-727-JAKE www.jacobsen.textron.com

SEE OUR EXCITING NEW
PRODUCTS IN ANAHEIM

Arnold Palmer, Gary Player and Jack Nicklaus.

They put their names on trophies.

They put their names on the courses they design.

They put our name on the specs.

