

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

A UNITED PUBLICATION
VOLUME 7, NUMBER 10
OCTOBER 1995 • \$4.50

INSIDE

Diplomatic Relations?

GCSAA and local chapter representatives appear to have agreed on a dual membership strategy 13

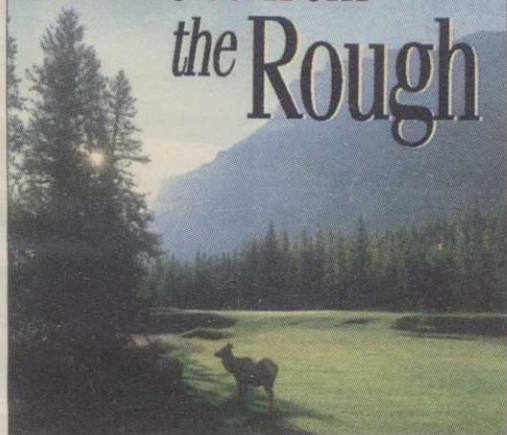
On the green

U.S. Golf Association research may give *poa annua* the staying power it sorely lacks 15

The Public Arena

The Golf Course Expo Development Program will focus on an evolving financial climate 46

A View from the Rough



KLEMMER IN PRINT?

Well, sort of... Photographer Mike Klemme has published a book highlighting golf's natural benefits. See page 3.

COURSE MAINTENANCE

Reducing the chance of rubber-spike slippage 13
Savings, safety via custom soil storage 18
Measure your greens right, the Maples Way 19

COURSE DEVELOPMENT

P.B. Dye, master of the "visually disturbing" 27
All aboard! GCBAAs sports full membership 31

COURSE MANAGEMENT

EPA's UST ruling should ease credit crunch 35
Legal Corner: Women gain equal access 36

SUPPLIER BUSINESS

The growing specter of MCS 39
Biodegradable tee-maker tests the market 40

Courses, supers withered by drought

By MARK LESLIE

There are 100-year floods and 100-year droughts. For some, this was a 100-year summer. It was drenching wet in Florida and Ohio. There was record-crunching heat and humidity in Pennsylvania. Dew points went through the roof in Minnesota. Everywhere from Delaware to the Midwest, golf courses got scorched.

"The only guys happy are west of the Rockies," said Golf Course Su-

perintendents Association of America President Gary Grigg after a meeting of chapter representatives in Lawrence, Kan. "It's been drought in the Northeast, heat in the Midwest, rain in the South. [Director] Paul McGinnis said Arizona had a stretch of 47 days when the temperature was over 110 degrees."

"This was the worst summer I've ever seen for growing grass," said Terry Buchen of Double Eagle Club in Galena, Ohio. "We had so much

rain, and the heat and humidity was the worst I've ever seen. The grass just cooked."

Cooked so badly that many golf courses closed down so crews could aerate and reseed. People were hitting balls off bare soil at some facilities.

"If you had new greens with sand-based construction, generally you were fine," said Stan Zontek, director of the U.S. Golf Association Green Section (USGA) Mid-Atlantic Region.

Continued on page 21

Alumni key university development strategy

By MARK LESLIE

COLUMBIA, S.C. — In the Southeastern Conference (SEC), 75,000 to 100,000 fans pack football stadiums every Saturday in the fall. Now a unique concept in golf development, The University Club, aims to pack them in at new golf courses located at those same SEC schools.

Indeed, The University Club at University of South Carolina (USC) boasted a whopping 12,000-plus members when it opened its first 18 holes here on Sept. 15. A second University Club — this one at Louisiana State University — could register similar numbers when it opens in a year or so.

Targeting universities with "a fervent athletic supporter base," this new company, called The University Club, decided to concentrate first on the Southeastern Conference which leads the nation in attendance at football

Continued on page 26



PUBLIC PLAY, OUTSIDE THE BELTWAY

Augustine Golf Club, the Washington, D.C. area's newest golf facility, is open for public play. This 18-hole Rick Jacobson design is the centerpiece of a residential community now under construction in Stafford, Va. For an update on this and other Jacobson projects, see page 30.

Audubon targets public-access at Golf Course Expo

By MARK LESLIE

ORLANDO, Fla. — Sensing that the vast number of public-access golf course officials are not joining the Audubon Cooperative Sanctuary System because they believe it is cost-prohibitive, the Audubon Society of New York (ASNY) will address them in a special session during Golf Course Expo here, Nov. 9-10.

"Our program is not geared towards finding interesting ways for golf courses to spend even more money from an already dwindling budget," said ASNY President Ron Dodson. "But we want superintendents to consider conservation as a mechanism to save money. Generally, our program should be thought of not only as environmental but as cost-efficient as well."

The ASNY is one of several major associations



Continued on page 46

Banc One goes sour on muni financing deals

By PETER BLAIS

Banc One Leasing Corp., a major lending institution that helped finance approximately a dozen municipal golf facilities using municipal lease arrangements, has taken over or is negotiating with municipalities on four of those projects, according to a bank attorney.

The courses are located in Minnesota, Colorado, Iowa and California, said Jeffrey Ayres, senior attorney for Banc One Corp., the holding company for Banc One Leasing.

Continued on page 37

Perry Dye's Third Place CC near Nagoya, Japan



Design in Asia-Pacific
... see p. 31

Ken May/Rolling Greens Photography

From Tee-2-Green

Penn Pals Profile:

A portfolio of creeping bentgrasses perfect for your plans... from the world's foremost marketer

Scientific name:	Growth habit:	Shade tolerance:	Heat tolerance:	Cold tolerance:	Traffic and wear tolerance:	Seeding rate, greens:	Seeding rate, fairways:
<i>Agrostis stolonifera</i>	Spread by aggressive stolons	Fair	Good	Excellent	Very good	1 to 1 1/2 lbs. per 1000 sq. ft.	Up to 50 lbs. per acre

Penncross

For tees and greens

The standard for creeping bentgrasses since 1955 and still the most specified bentgrass for golf courses. Recovers quickly from injury and divots. Good heat and wear tolerance. First choice of golf course architects and superintendents.

A few fine courses with Penncross greens:

- PGA West Stadium Course
- The Vintage Club
- Troon North Golf Club
- Wolf Run Golf Club
- Eagle Crest Golf Course
- Kananaskis Country Golf course



Penneagle

For fairways

The top performing fairway bentgrass. Germinates quickly. Upright, dense growth habit helps crowd out poa annua. Salt tolerant.

A few courses with Penneagle fairways:

- Oakmont Country Club
- Butler National Golf Club
- Pumpkin Ridge Golf Club
- The Merit Club
- Inverness Club (Toledo)
- Des Moines Country Club



PennLinks

For new greens, green renovation and overseeding

The new standard for putting greens. Upright, dense growth for true putting. Fine texture and heat tolerant.

A few fine courses with PennLinks greens:

- Wilmington Country Club
- Inverness Club (Toledo)
- SandPines Resort
- Prairie Dunes Golf Club
- Baltimore Country Club
- Wild Wing Plantation



PennWay Blend

For fairways and winter overseeding greens

Economical fairway and winter over-seeding blend of Penncross, Penneagle and 50% quality creeping bentgrass. Certified PennWay contains Penncross, PennLinks and 70% Penneagle for genetically diversity meeting certification standards.

A few courses featuring PennWay:

- Wakonda Club
- Carlton Oaks Country Club
- Riverwood Golf Club (winter overseeded greens)



PennTrio Blend

For tees, fairways, greens, and winter overseeding

Certified creeping bentgrass blend with 1/3 each Penncross, Penneagle and PennLinks. All the attributes of a blend with ready-to-seed convenience.

The increasingly popular blend for all around the course, from the world leader and foremost marketer of creeping bentgrasses.



For more information, call or fax: **Tee-2-Green Corp.**, 1-800-547-0255 / FAX 503-651-2351

NEWS IN BRIEF

VALLEJO, Calif. — There will be golf after the Mare Island Naval Shipyard closes down. The city council recently selected The #1 Golf Co. of San Rafael from among six companies to operate and expand the Mare Island Golf Course. The company's team includes Johnny Miller Design Ltd. of Napa. The plans include expanding the course from nine to 18 holes and developing a family fun center, a hotel and youth golf academy.

YOUNG HARRIS, Ga. — The Brasstown Valley Resort has opened its newest 18-hole golf course. With a slope rating of 141 and a course rating of 74.4, Brasstown's new track can boast the toughest numbers of any resort course in Georgia.

ATLANTIC CITY, N.J. — In the battle of super-developers over a former city dump site, Donald Trump lost with his bid to build a \$25 million 18-hole championship golf complex. An Atlantic City mayoral committee instead voted 9 to 0 to award development rights to a 178-acre former landfill to Stephen Wynn and his partner, Circus Circus. Wynn has proposed a massive, sprawling \$1 billion development with a hotel, casino, a shopping mall with three 1,500-seat theaters and an indoor rain forest. Wynn's proposal would create the largest casino complex in the Garden State and one of the world's largest.

Klemme book touts golf's kinship with environment

By PETER BLAIS

Mike Klemme was 6 years old when he first realized how visually oriented people are.

"That's when I first picked up a copy of *National Geographic* magazine and started looking at the pictures," Klemme remembered. "When I got a little older I began reading the captions. But I still don't think I've read an entire *National Geographic* story. And I have every issue."

Given that tale, it's not surprising Klemme has gone on to become a professional photographer and one of the best-known snappers of golf course shots in the business. It was his love for the game and belief in the power of photos that led the Enid, Okla., resident to begin pitching his idea for a picture-laden coffee table book touting the environmental benefits of golf courses.

"Every course I've gone to has an environmental success story," said Klemme, who has been on the road as many as 300 days a year visiting golf courses. "Photos are such a great way to communicate those stories."

After receiving a cold reception for his idea from many in the golf industry, Klemme finally found a warm greeting at Sleeping Bear Press in Chelsea, Mich. The result is *A View from the Rough*, a 144-page testimonial to the positive environmental benefits of golf featuring 200 Klemme photos taken around the globe. The photos are backed up with brief statements from



An elk roams free over hill and dale at Banff Springs Golf Club in Banff, Alberta, Canada.

golfers and environmentalists along with a foreword by Tim Hiers, head superintendent at Collier's Reserve Country Club in Naples, Fla.

"*A View from the Rough* portrays the diverse efforts of people and institutions dedicated to enhancing the game of golf and the environment," Hiers wrote. "The courses shown are excellent examples of the ability to maintain some of the greatest holes in the world

in a fashion that supports and enhances the surroundings."

Klemme noted other books touting golf's positive environmental record are generally written for those already in the industry. *A View from the Rough* is targeted toward the general populace, which often makes decisions affecting golf courses.

"The idea is that it will provide

Continued on page 26

OTTERBINE®.... Your Water Quality Management Specialists



Surface Aerators

- Reduce the problem of algae, aquatic weeds and odor.

- Introduce O₂ into the pond.
- Available in a variety of spray patterns and sizes.



Sub-Surface Aerators

- Introduce O₂ into the pond bottom via Sub-Surface or Diffused Air.

- Perfect for shallow ponds.
- No visible spray pattern.



Bunker Pumper

- Removing water from bunkers, excavation sites or swimming pools.

- 280 GPM pumping rate.
- Floating, self priming portable - only 85 lbs!



Ottershield Lake Dye

- Transforms muddy water into healthy blue water.

- No stained clothes or hands - you never touch Ottershield.
- Neat, clean, packets.



Replace your old Otterbine with a new one and receive a discount of up to \$600.00!! Call 1-800-AER8TER for details.

OTTERBINE, INC. • 1-800-AER8TER (237-8837) • (610) 965-6018 • FAX: (610) 965-6050

Maine court sides with injured golfer

FORT KENT, Maine — The Maine Supreme Court has upheld a \$40,000 jury award to a woman golfer who was injured when her own ball bounced off railroad tracks and struck her in the face.

Jeannine Pelletier sued the Fort Kent Golf Club for damages for nose and facial injuries. Both sides then appealed to the state Supreme Court: Pelletier and her husband over the amount of the award and the club to overturn the verdict.

The club, located in remote northern Maine at the Canadian border, argued it was not liable because it did not own Bangor and Aroostook branch railway line, which crosses the club's first fairway. The line was little used at the time of the accident and is idle now. The rails are visible from the first tee. Under a club "free lift" rule, a golfer whose ball lands near the tracks can move the ball to the other side.

In upholding the size of the award and rebuffing the club's appeal, the court stated, "Although the tracks are not under the club's absolute control, the club's duty extends to the land which it has invited golfers to use."

Second-class postage paid at Yarmouth, Maine, and additional mailing office. *Golf Course News* (ISSN 1054-0644) is published monthly by United Publications, Inc., 38 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 1995 by United Publications Inc. All rights reserved. Reproduction, in whole and in part, without the written permission from the publisher is expressly prohibited.

Reprints and permission to reprint may be obtained from Managing Editor, *Golf Course News*, P.O. Box 997, Yarmouth, ME 04096. Back issues, when available, cost \$5 each within the past 12 months, \$10 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 \$25 annually; other paid subscriptions to the U.S. and Canada cost \$45. 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.

Calif. Mayor prefers course to prison

SAN MATEO, Calif. — Irv Amstrup, the former mayor of Burlingame, recently proposed shutting down the San Francisco Jail in San Bruno and building a golf course on the site.

Amstrup's suggestion was made partly out of frustration over the reluctance of the San Francisco Public Utilities Commission to include a golf course in its long-range master plans for the watershed area.

"We need to kick up a storm and tell them to move their jail out of our town — put it in their own town," Amstrup said.

"This is something that everyone could really get behind: golfers, non-golfers, even the environmentalists. No one likes the jail there, everyone wants it to go.

"It is time to start fighting the infringement of San Francisco upon our county."

Newly public Presidio reopens

SAN FRANCISCO — The complicated transition of the private Presidio/Army Golf Club to the public Presidio Golf Course is complete.

The scenic, historic course — which is run by Arnold Palmer Golf Management — opened for public play in September.

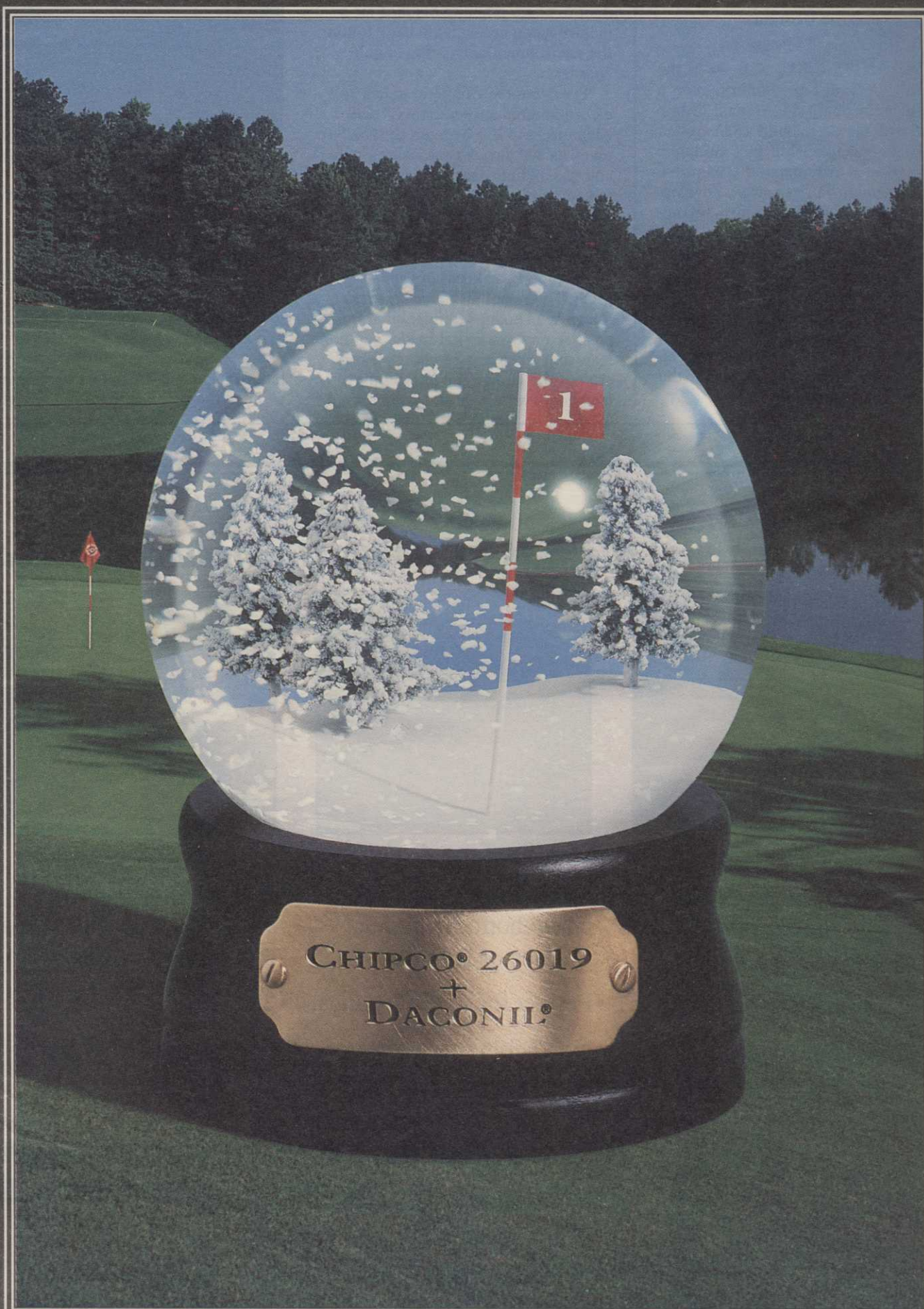
Greens fees are \$35 on weekdays and \$45 on weekends.

Palmer's management firm, which is based in Orlando, Fla., and owns or leases 16 golf facilities in the U.S. and abroad, has a

10-year contract and will play the National Park Service an undisclosed percentage of gross receipts.

The firm has agreed to invest several million dollars in a new irrigation system, clubhouse and golf cars.

"It's a great golf course which has had limited public play," said John DePriest, general manager and director of golf for Palmer Management, "and I think the excitement is going to be at a high pitch."



New private club to serve Indianapolis' south side

INDIANAPOLIS, Ind. — Ever since the public Legends of Indiana Golf Course opened in 1992, Director of Golf Ted Bishop has heard talk about how badly the south side of the city needs a private, 18-hole championship course.

Now, he's looking for 200 members for just such a project. The proposed facility is The Brassie Golf Club, which would be located on 200 acres of rolling ground in White River Township about 25 miles from downtown Indianapolis.

The Brassie would not be affiliated with The Legends, where Bishop plans to remain as director of golf. Bishop is the project manager

for The Brassie, an enterprise of the Middleton Properties Inc. of St. Louis, whose owner, George Middleton, is an investor in The Legends. Golf course architect Jim Fazio, who designed The Legends, has done the routing for The Brassie.

Bishop has said membership at the club — there will be no tennis or swimming, just golf — will be limited to 350. Starting Oct. 1, Bishop plans to begin taking \$2,500 membership deposits that will be held in an interest-bearing escrow account until Dec. 31, 1996. If by that time, 200 members have committed, construction will begin. If not, deposits will be refunded, said Bishop.

Jacobsen, Case Corp. step in to save historic Wisconsin muni

RACINE, Wis. — Two local companies with economic and personal interests in golf have volunteered to help rescue the city's long-standing 9-hole Shoop Park Golf Course, which was threatened with a permanent shut-down this summer because of the high cost of long-needed repairs.

The Case Corp. and Jacobsen Division of Textron have pledged their help in renovating the picturesque but potentially dangerous Shoop course near the

shores of Lake Michigan.

"A prayer has been answered," said Arline Bodenbach, who led a petition signed by more than 1,650 people to keep Shoop open.

The course's future looked bleak in early July. A city finance director suggested closing the course because of the high costs of repairs. Course operator Matt Benciscutto estimated it would cost \$400,000 to improve drainage, redesign several holes, and soften some hills in order to make the course safer. Overwhelmingly, the public wanted to keep Shoop Park open as a golf course.

Mayor Jim Smith, whose office was flooded with phone calls on the issue, was contacted by Case and Jacobsen officials who indicated they considered the course part of the city's heritage and they wanted to help.

Case will donate equipment and manpower to regrade much of the course and dig trenches for drain tiles. Drainage at the 1920s-era course has been a perennial problem, with standing water on the fairways for much of each summer. Case's Randy Steger, a government marketing specialist, said he asked Case officials to consider helping with the project because, like a lot of people, he was concerned Racine would lose an historic jewel. "I've golfed there many times with my kids. It's a relaxed, nice place to play nine holes," said Steger.

Jacobsen will help with seeding new portions of the course. Jacobsen's Ralph Nicotera, director of North American sales, said Racine is "a very picturesque" property that "should remain as a golf course."

"Our primary business is golf course equipment," said Nicotera, adding, "Everything we look at says golf is growing. We need more golf courses, not less."

The city of Racine will provide the drain tile, topsoil and all engineering services. It will also spend \$75,000 to cover its cost in the project. One member of the city's Golf Course Liaison Committee called the cooperative solution "a great effort to save a nice little golf course."

MAC PERK: PLAYING THE BOG

MILWAUKEE — Membership at the Milwaukee Athletic Club (MAC) has its perks. Not only do MAC members have first dibs on tee-time reservations at The Bog, a new Arnold Palmer design in nearby Saukville. But six MAC members got a chance to play golf with Palmer at The Bog Sept. 13, as part of opening celebrations. The club held a qualifying event the day before, with the six low net scorers earning the right to play with Palmer. Three winners got a chance to play the front nine with the legend while the other three joined him on the back nine.

But make no mistake. This is no fantasy world. Turf diseases are very real and the ravages of Pink and Gray Snow Molds can be devastating come spring thaw.

That's why you should protect your turfgrass with the best combination available.

When you tankmix CHIPCO® 26019 with DACONIL® 2787 and apply between

products gives you added protection against Brown Patch and Dollar Spot. Many superintendents

Don't let Pink and Gray Snow Molds gang up on you. A tankmix of CHIPCO® 26019 + DACONIL® 2787 stops them cold.

tell us they can actually see a visible difference, with greener, healthier looking turfgrass after application.

And remember, if you see evidence of brown patch, don't be confused by claims of other chemistries.

YOU COULDN'T DREAM OF BETTER SNOW MOLD PROTECTION

If Pink Snow Mold is your only problem, CHIPCO® 26019 is the only solution you need.

last mowing and first snow, you can be confident of having unbeatable control of snow molds all winter long.

It's a fact that most fungicides are either systemic or contact. But did you know that CHIPCO® 26019 offers the unique characteristics of being *both* a localized systemic and a contact fungicide? Plus, the contact activity of both

Because only CHIPCO® 26019 contains iprodione for superior brown patch control. Cool

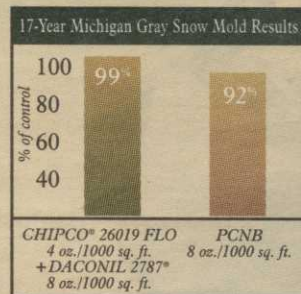
season or

year-around, there's only one choice for the cornerstone of your spray program.

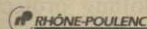
CHIPCO® 26019.



CHIPCO® 26019
FUNGICIDE



Dr. J. M. Vargas, Michigan State University, 1977-1994, (14 trials).



Rhône-Poulenc Ag Company, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. For further product information, please call 1-800-334-9745. As with any crop protection chemical, always read and follow instructions on the label. CHIPCO is a registered trademark of Rhône-Poulenc. Daconil is a registered trademark of ISK Biosciences Corporation. ©1995 Rhône-Poulenc Ag Company.

Tenn. park project settles on sites

NASHVILLE, Tenn. — It appears Tims Ford State Park in Winchester and Harrison Bay near Chattanooga will be the third and fourth sites for the state's controversial \$20 million project to build four new Jack Nicklaus-designed courses in state parks (*Golf Course News*, May 1995).

Both Tims Ford and Harrison Bay were back-up choices.

The original third and fourth sites, Panther Creek near Morristown and Natchez Trace near Camden, have been virtually

eliminated, according to state architect Mike Fitts.

The other two sites where courses are expected to be built are at Chickasaw in west Tennessee and at Cumberland Mountain near Crossville.

Fitts said the project developers, the Houston-based Golf Services Inc., need to get the go-ahead soon because of time constraints built into a contract they signed with the state last January. A final decision is expected by the middle of this month.

Makeover for venerable Scioto CC

COLUMBUS, Ohio — The fabled 80-year-old Scioto Country Club, the Donald Ross design where a young Jack Nicklaus learned to play golf, is headed for a \$6.3 million renovation of its clubhouse and golf course.

An estimated \$4.6 million will be spent for clubhouse design, renovation and construction.

Another \$1.2 million would go toward the course and the

remaining \$500,000 would be held in a contingency fund.

Scioto's current clubhouse was built in 1954 to replace one that had burned to the ground.

The 6,900-yard, 18-hole course is considered one of the city's most challenging, based on USGA stroke and slope ratings.

The club frequently hosts the Ohio men's Amateur Golf Championship.

Southern Hills takes dim view of metal spikes

TULSA, Okla. — Southern Hills Country Club, host of the upcoming \$3 million Tour Championship Oct. 26-29, ran a 60-day trial for polyethylene spikes during July and August, two of the toughest months for weather and wear for its putting greens.

The club has decided to continue the trial through at least the end of October.

Southern Hills received some criticism for spike marks on its greens during the 1994 PGA Championship. A few dozen clubs across the country, including Castle Pines, Muirfield and Inverness, have gone exclusively to softer, flatter spikes for members and guests.

"It's tough to grow bentgrass in this part of the world during the summer and the Soft Spikes have been a tremendous help," said Cary Cozby, assistant golf professional at the club. "We've had maybe a handful of complaints versus a whole bunch of compliments. We've sent all our metal spikes back."

Cozby said he expects the club will continue with the polyethylene spikes and "professional" (rubber-bottomed) shoes indefinitely.

Goose shooting results in charges for greenkeeper

BIRMINGHAM, Ala. — A member of the grounds crew at the Chace Lake Country Club is headed to court Oct. 2, after he shot about 20 Canada geese on the golf course with a shotgun, killing several birds.

Ricky Wayne Rounsvall, 40, has pleaded innocent to one count of killing protected birds out of hunting season. The geese, which are not migratory, were considered a nuisance. If convicted, Rounsvall could be fined up to \$500.

Tom Beatty, a conservation enforcement officer who investigated the June shooting, said some of the geese were used for meat and some were disposed of. They had been tearing up and eating the club's new \$90,000 golf greens and several attempts to scare them off had failed. Beatty said his initial investigation revealed no evidence that the club's management ordered the greenkeeper to destroy the flock.

The shooting set off plenty of local debate, with many people, including some hunters, feeling the potential fine was too low. Rounsvall is charged with only one count of killing protected birds. But the conservation department may choose to add counts for each dead goose. Fines would be applied to each count.

GOLF COURSE NEWS

NOW YOU HAVE A CHOICE!



40 OF THESE

OR



2 OF THESE

Milorganite Is Now Available In 1000 lb. Mini-Bulk Bags!

Call Your Milorganite Distributor for Details.

SOLID AGRONOMY

MILORGANITE DIVISION - MMSD • 1101 NORTH MARKET STREET • MILWAUKEE, WI 53202 • 800-287-9645



Charlie Daniels development misses deadline

SAN ANTONIO, Texas — The developer of a proposed \$250 million Charlie Daniels Western World theme park that included plans for golf courses missed a deadline to buy the 2,000 acres where he planned to build the ambitious project.

Lawyers for the owners of Canyon Ranch property, however, said the missed deadline doesn't necessarily kill the deal for developer Michael Vandiver.

Vandiver dreamed up the project in 1988 with Daniels after meeting the country rock star at a golf outing in Pinellas County. The proposed park, based on an Old West theme, would include thrill rides and attractions, an entertainment complex, a rodeo arena, hotels and golf courses.

At last, irrigation for 75-year-old Studebaker GC

SOUTH BEND, Ind. — Nobody can accuse city officials in South Bend of rushing into things hastily when it comes to golf course maintenance.

Starting this fall, the nine-hole Studebaker Golf Course will be getting the first automated irrigation system in its 75-year history. Major irrigation system upgrades are also planned for the city's Erskine and Elbel courses, according to Parks Superintendent Phil St. Clair, who said the summer's excessive heat and humidity made obvious the need for properly-functioning modern watering systems.

At Studebaker, where watering has been done by hand with garden hoses for the past 75 years, an automated system will be installed to cover all nine greens and fairways. Work is expected to start this fall.

COMMUNITY GOLF, GOLFSCAPES COLLABORATE IN TEXAS TOWN

WESLACO, Texas — City officials are moving forward with plans to build a new public-access, 18-hole golf course with consultants Community Golf of Dallas. The project is estimated to cost between \$4.6 and \$4.8 million.

Land for the course has been donated by Weslaco attorney Zeke Reyna, who plans to build a private housing development around it. The tentative team organized for the project includes Scott Erwin of Community Golf, designer Jeff Brauer of GolfScapes, and Richard Watson of Watson Construction Co., all from Dallas. Construction may start late this month.

GOLF COURSE NEWS

Golf destined for Palm Beach reserve?

WEST PALM BEACH, Fla. — Landowners in Palm Beach County's Agricultural Reserve appear to be winning their battle to build golf courses and homes in the rural area west of Boynton and Delray beaches.

State land-use regulators say they might drop their opposition to golf courses in the 20,500-acre Ag Reserve in exchange for stronger commitments from property owners to preserve remaining large

tracts as farmland. Such a trade-off has been proposed by staff at the state's Department of Community Affairs (DCA), which oversees local land-use plans, to DCA Secretary Linda Loomis Shelley. Shelley has not made a final decision.

County commissioners want to keep the Ag Reserve rural and will ask voters in November to approve a \$70 million bond issue to buy development rights from farmers.

Muni reopening brings mixed bag

PONTIAC, Mich. — First, the good news:

Pontiac's rebuilt municipal course opened in early August at Crystal Lake, on the site of the old Pontiac Municipal Golf Course which closed in 1993.

"It's not as long as the old course, but there are a lot more traps that come into play and more water," said Earlie Jones, the course manager. "Esthetically, it's a lot better course."

The new municipal course is part of a development plan that's supposed to include 188 houses

and condominiums.

Unfortunately, the city of Pontiac has not been able to sell \$11.2 million in bonds for the project. The city hopes to put \$4.2 million worth of bonds on the market in late September. Part of the problem has been the city's inability to show revenue from the project, which would repay the bonds.

So far, only about 18 homes in the Crystal Lake project have been sold and the golf course opening was delayed several times.

Frankly, it won't make a splash on your course.

If your players are tired of the splish, splash sloppiness associated with other ball washers, maybe

it's time to pay less and get more — with the Professional Series Ball Washer by Standard Golf. ♦

**Our
Professional
Series Ball
Washer has
become
a new
tradition on
courses
around the
world.**

It conveniently washes up to four balls at a time. With a few easy cranks of the handle, tough nylon bristles scrub dirt and grime away. ♦ It's a clean winner for thousands of superintendents, too. The sensible overflow tube and drain construction prevents leaks and streaks, while making maintenance a breeze. And the beautifully durable case is available in the seven most popular colors in golf. ♦ Con-

tact your

nearby Standard Golf distributor and ask about the new tradition in ball washers. They won't make a splash on your course (or a ripple in your budget).

The Standard of Excellence

**STANDARD
GOLF** ProLine



Standard Golf Company • P.O. Box 68 • Cedar Falls, IA 50613 • 319-266-2638 • FAX 319-266-9627

CIRCLE #105

Due process? Try much ado about nothing, in Humble

Remember the infamous Tour 18, the course comprising replicas of famous golf holes laid out amid the power lines and prairie scrub of Humble, Texas? You know, the faux 13th at Pebble Beach next to the near 11th at Merion, just beyond the mock 17th at Sawgrass?

Well, the case goes to trial this month in Houston, where the controlling interests behind three resorts — Pebble Beach, Pinehurst and Harbour Town — will test the limits of federal trademark protection.

The brass tacks of most trademark disputes center on consumer confusion, and whether that confusion (once proved) prevents or discourages the public from buying the real thing. For example, will a golfer who plays the Tour 18 version of Harbour Town's famous finishing hole confuse the makeshift swamp to his left for Calibogue Sound? When he plays the replicated Amen Corner, will the Tour 18 patron become confused? Is he standing on an abandoned oil field next to Houston International Airport, or is he standing on the manicured grounds of Augusta National sipping a mint julep?

I can't see a judge buying the supposition, frankly.

Besides, a Tour 18 patron pays just \$55 to \$75 to play, whereas a Pebble Beach patron, for example, shells out \$200 for the privilege. That's the best differentiator there is!

Pardon me, but this whole business is fairly ridiculous; and with regard to the plaintiffs, a bit tacky. The idea that Tour 18 is somehow taking money from Pinehurst's pocket, or that golfers drive to Humble, Texas and believe they're actually standing on the Monterey Peninsula is ludicrous.

Furthermore, a place like Pebble Beach derives a large measure of its glory from the natural surroundings. Just read the brochures.

Are the Pebble Beach attorneys prepared to claim patent protection for Carmel Bay, the rocky coastline, the seals, the bordering Del Monte forest, not to mention a course design that follows the land's natural contour?

At this stage, I wouldn't put it past them.

...

It's a big country — big enough to feature several diametrically opposed yet similarly devastating weather patterns during the same three-month period (see story page 1).

In Florida, it rained so hard and often that fungicide sales, for example, were among the lowest on record. The heavy rain

Continued on page 37



Hal Phillips,
editor

Members, general managers: Summer of their discontent?

Sleepless in Seattle... and Columbus... and Philly. Superintendents have been sleepless from Delaware to Dubsdread this summer, worrying about the weather — and their jobs.

Heat and humidity were unrelenting and life-defying. No amount of syringing, no deluge of chemicals could save some courses. Hurricane Jerry dumped 15 to 18 inches of rain on South Florida, headed north, then turned around and dumped another 5 or more inches on the same area. Canals and lakes filled and the state of Florida could not drain.

Yet, general managers and green committee chairmen from the East Coast to the Rockies are firing their superintendents — professionals who have no control over the circumstances.

"I know of more than a half dozen guys who will lose their jobs out here," said one Ohio superintendent after a drenching and hot summer that steam-cooked the turfgrass. "It's been a summer from hell."

That's tantamount to shooting the cook because of bad taxi service to the restaurant. Who other than the superintendent is going to save that golf course? The person running the food and beverage? The lawyer sitting in this year as green chairman? The club owner who built his fortune making widgets?

In effect, club members blaming superintendents for dead turf when the weather is the culprit is like Chicago White Sox infielder Ozzie Guillen putting eye drops on his bat when he's in a slump.

Come-on!

But the word is, country club members often leave their good judgment back at work when they come to the course.

"People lose their common-sense reasoning in country club environments," said Bob Brame, director of the U.S. Golf Association Green Section North Central Region. "They don't want to hear agronomic reasons why the greens are dying. Instead, they will base their decisions on emotions."

That attitude is not lost on superintendents anywhere the weather gets too weird for too long.

One person confided: "Like any superintendent, I worry about having two bad years in a row, whether it's my fault or not. We are just like baseball coaches. We seem to be very expendable. It's odd to try to convince 350 members that you're not the town idiot."

"In our part of the country, people aren't used to weather like

Continued on page 12



Mark Leslie,
managing editor

Letters

GATOR DIED WRONGFUL DEATH

To the editor:

The article in the September issue of *Golf Course News* regarding the alligator attack at the Cocoa Beach Country Club [page 5] was not accurate as to the individuals involved.

There were actually two young men who were trespassing on the golf course at 11:30 at night collecting golf balls from the lakes. They were wearing wet suits and carrying plastic grocery bags to transport the golf balls they collected.

As a result, one of the young men was seriously injured by an alligator who was basically just defending his home. The gator was subsequently destroyed by the Florida Fish and Game Commission for doing what he does naturally, and the trespassers — one of whom may have permanent injuries — are now facing criminal charges.

Quite rightly, the patrons of the golf course have shown a great deal more concern for the unfortunate demise of their friend Stubby the gator than they

have for the intruder who caused Stubby's unjust and severe punishment.

Dave Manning
general manager
Cocoa Beach (Fla.) CC

USGA: DON'T BARBECUE SUPERS

The letter below, issued by the U.S. Golf Association Green Section North Central Region, was sent to courses in the upper Midwest during the brutal weather pattern this summer.

To the editor:

The prolonged period of high daytime and equally high nighttime temperatures has resulted in widespread turf loss on golf courses throughout the North Central Region of the USGA Green Section (Indiana, Ohio, Kentucky, Wisconsin, Minnesota, Michigan, North Dakota, South Dakota and Montana). *Poa annua* was hit the hardest. The purpose of this letter is to convey the widespread nature of this summer's problems and the fact that, in many cases, the turf loss was beyond the control of turf managers.

It is an established agronomic

fact that *Poa annua* is the one golf course turfgrass which is least tolerant of summer heat, winter cold and ice stress. These inherent weaknesses of *Poa annua* were seen during the winter of 1993-94 along the East Coast and now, during the summer of 1995 here.

The reasons *Poa annua*, and to a lesser extent bentgrass and perennial ryegrass, declined this summer are many. The catalyst was a hot summer which set records in many areas. In some areas the heat was joined by too much rainfall and yet, in other areas too little rainfall. In some cases, close mowing and/or the use of grooved front rollers added to the package.

Once grass becomes stressed and weakened, disease problems begin. Anthracnose, pythium (foliar and soil borne), take-all patch, summer patch, brown patch and dollar spot were all seen this summer. The heat and weakened turf made fungicidal control of diseases more difficult than usual. In a few cases, pesticide applications, made with well-calibrated equipment and at

correct rates, added to the decline of overly weakened turf. When the snow ball starts rolling down the hill, it gains momentum and is almost impossible to stop.

Courses with good drainage and well-built greens come through better. Poorly-drained greens, tees and/or fairways, especially with high percentages of *Poa annua*, were hardest hit. What to do?

First of all, recognize that maintenance of dense, healthy turf during prolonged periods of heat and humidity cannot always be successful. Especially, *Poa annua* turf. Don't barbecue the course superintendent! Rather, understand their plight and when the weather cools, give them the support to begin a comprehensive seeding program. Where drainage is a limiting factor, develop a plan to improve it. These conditions may come again.

It will be a busy fall at most courses. Good luck! If we can assist in any way, give our office a call.

Robert C. Vavrek, agronomist
R. A. (Bob) Brame, director
USGA North Central Region
Covington, Ky.

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

Publisher
Charles E. von Brecht

Editorial Director
Brook Taliaferro

Editor
Hal Phillips

Managing Editor
Mark A. Leslie

Associate Editor
Peter Blais

Editorial Assistant
J. Barry Mothes

Contributing Editors
Terry Buchen, CGCS, MG
Vern Putney

Editorial Advisory Board
Raymond Davies, CGCS
Merced Golf & Country Club
Kevin Downing, CGCS
Willoughby Golf Club
Tim Hiers, CGCS
Collier's Reserve
Dr. Michael Hurdzan
Hurdzan Design Group
Mary P. Knaggs, CGCS
Hazelton National Golf Club
Roger Maxwell
Management Consultant
James McLoughlin
The McLoughlin Group
Kevin Ross, CGCS
Country Club of the Rockies
Brent Wadsworth
Wadsworth Construction

Production Manager
Joline V. Gilman

Circulation Manager
Brenda Boothby

Editorial Office
Golf Course News
Box 997, 38 Lafayette Street
Yarmouth, ME 04096
207-846-0600; Fax: 207-846-0657
hphilip@gcn.biddeford.com

Advertising Office
National Sales:
Charles E. von Brecht
Box 997, 38 Lafayette Street
Yarmouth, ME 04096
207-846-0600; Fax: 207-846-0657

Western Sales:
Robert Sanner
Western Territory Manager
2141 Vermont
Lawrence, KS 66046
913-842-3969; fax: 913-842-4304

Marketplace Sales:
Diana Costello-Lee
207-846-0600; fax: 207-846-0657

Golf Course Expo Sales
Douglas Oakford
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.

NGF CHARTER MEMBER
NATIONAL GOLF FOUNDATION

BPA
INTERNATIONAL®

Copyright © 1995 by United Publications, Inc. All rights reserved and reproduction, in whole or in part, without written permission from the publisher is expressly prohibited.

Video an important component of crew training

By DARREN DAVIS

On my first day of turfgrass school at Pennsylvania State University, Dr. J. M. Duich, the professor, whom I had heard so much about, stood in front of a class of eager "turfers" and drew a circle. Inside the circle, he sectioned off a "slice of pie" representing about 15 percent of the circle. Inside this small portion of the circle, Dr. Duich wrote the word "turf." Inside the remaining 85 percent of the pie, he wrote the word "people."

As new students, we were confused about what we had just been told. But it didn't take long after graduation for many of us to realize how accurate this statement was. I will never forget that day and the "Duich Pie" theory.

As turf managers, a major key to our success is the people who work for us. The quality of a golf course frequently reflects the ability of the turf manager to attract and hire quality employees, then provide them with the training to perform their duties correctly and in a productive manner. A method I have found extremely valuable is the use of VHS videos in training all my employees.

Instructional videos can provide a thorough means of training that is both visual and audible. How many times have you given instructions to a new (or veteran) employee only to receive a blank stare in return, or perhaps a head shake assuring you that he understands? Oftentimes, you find out later that he had no clue what you were talking about.

Or, how many times have you taken the time and sincere effort to go into the field to train an employee, spending a large amount of time explaining the correct method for accomplishing the task, only to realize later that you forgot one major point?

A fellow superintendent recently told me a story that highlights this very well. He had hired a new employee that had no previous golf course experience and did not understand the intricacies of the turf maintenance equipment. So, in an attempt to break the employee in slowly, the superintendent trained the employee on a riding rotary mower. After some instructions and demonstrations around the maintenance facility, the employee was given directions to the clubhouse so he could mow the clubhouse grounds.

However, on the way to the clubhouse there was an

obstacle the employee was unfamiliar with: a putting green. Trying to do the best job possible, the employee decided the quickest way to the clubhouse was straight ahead across the putting green. When the supervisor arrived later, he noticed the damage to the putting green and asked the employee if he knew how it got there?



Darren Davis

"I guess those are my tire tracks, why do you ask?" the employee responded.

After the initial shock wore off, the superintendent realized he had not taught the employee as fully as he should.

Similarly, what if the one point you forgot to explain was "Always keep a watchful eye for hydraulic leaks," and you now have streaks of dead grass on all

the back nine putting greens.

These are some of the reasons I use VHS video tapes religiously to train and educate employees. The use of video allows me to thoroughly educate an employee, first in the office, then through a hands-on demonstration in the field. I have found a good video ensures that vital points are not missed in the training process.

However, the videos do not replace the need to provide hands-on training, frequent supervision, or the operator reading the owner's manual.

Beginning the first day of

employment at my course, before the new employee even sees the golf course, an employee views an introductory video tape to golf courses. Then, before any of my employees get on a piece of large equipment like a triplex, walking greens or tee mower, they sit down and view the video on the assigned task.

When using videotapes, I've found it helpful to provide written material for an employee, such as a workbook, to accompany the video. This workbook gives an employee or

Continued on page 12

WELL-RATED PERFORMANCE ONLY FROM WATERTRONICS!

Dynamic Performance Testing of Station Functions

Our exclusive 10,000 gallon testing well permits factory-verified performance testing of all Watertronics Pump Systems. This comprehensive, dynamic testing process significantly reduces field start-up adjustments. In other words, Watertronics Systems arrive with sleeves rolled up . . . ready for work. We believe the additional factory time spent on dynamic performance testing is an important tool for building long-term customer product satisfaction.

Pumping Systems Customized to your Specific Needs

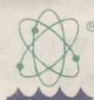
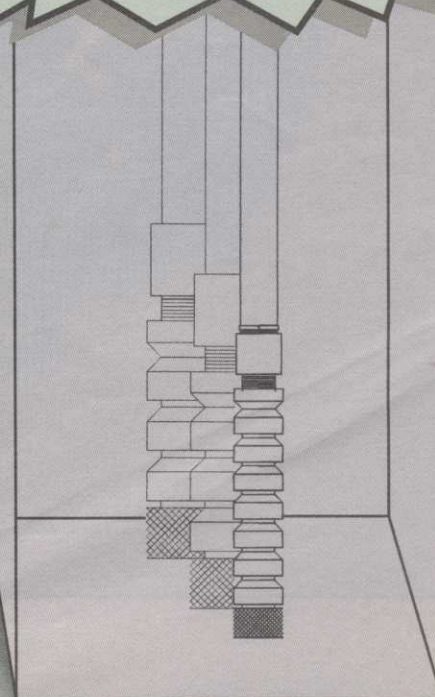
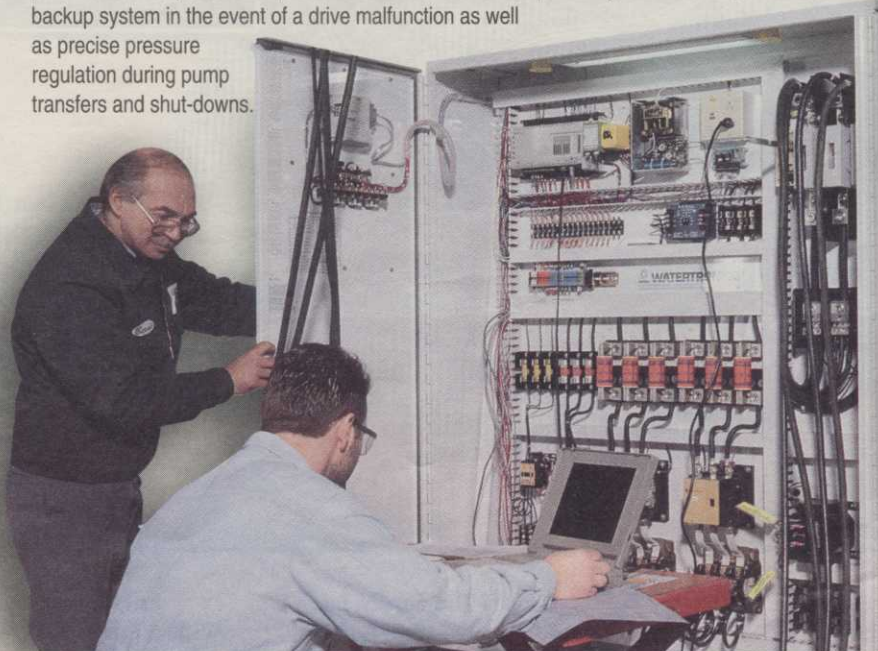
Watertronics Systems range in size and application from compact landscape/sports turf models, to vertical turbine pumping units with fixed or variable speed motor controls. Centrifugal pump stations for wet sump, flooded suction or booster applications are also offered. With all systems the user receives a comprehensive report of actual pressure and flow performance including specific wire-to-water energy efficiencies. Watertronics' reputation for performance is well-rated!

EBV Controls Provide Highest Accuracy & Reliability

Fixed-speed models feature our Electronic Butterfly Valve (EBV) pressure regulation. It provides precise surge-free performance from each pump without the energy-robbing pressure losses of hydraulic valves. This patented control process is optional on all our VFD models providing a full backup system in the event of a drive malfunction as well as precise pressure regulation during pump transfers and shut-downs.



Exclusive 10,000 Gallon Test Well permits factory-verified performance of every Watertronics Pump Station!



WATERTRONICS
ELECTRONICALLY CONTROLLED PUMP SYSTEMS

Put a Watertronics verified performer to work for you!
Call (800) 356-6686. In Wisconsin call (414) 367-5000.

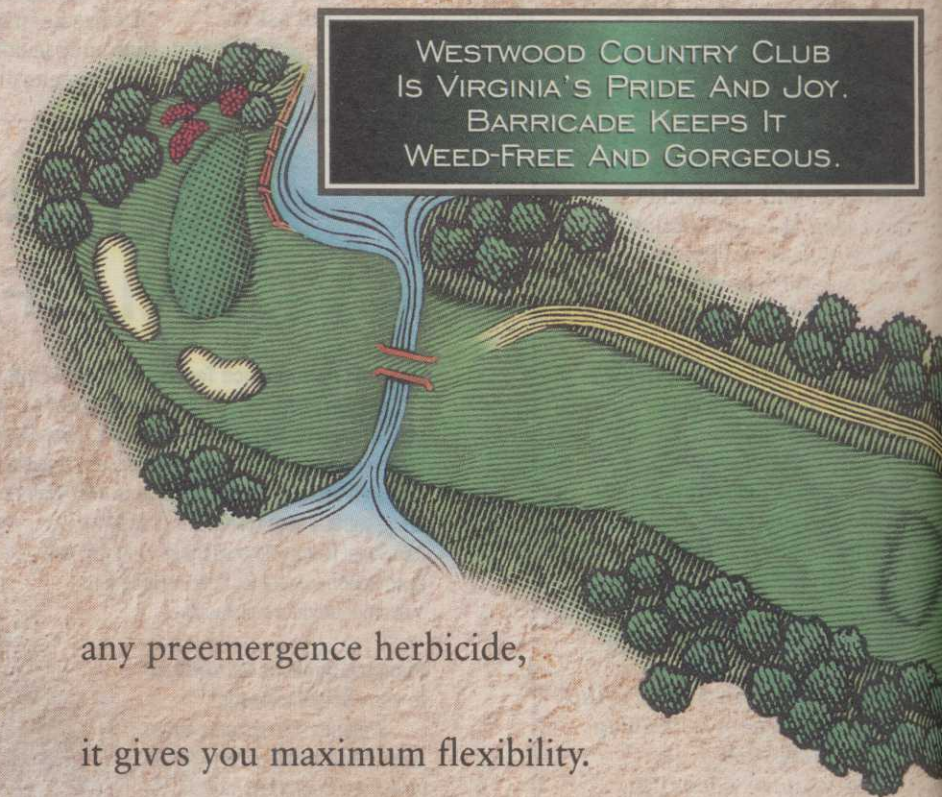
P.O. Box 530 • 525 Industrial Drive • Hartland, Wisconsin 53029 • Phone (414) 367-5000 • FAX (414) 367-5551

CIRCLE #106

Darren Davis is the golf course superintendent at Olde Florida Golf Club in Naples, Fla.

CONFIDENCE AND SECURITY DON'T JUST HAPPEN.

Let's not mince words – your job's challenging. Just think about all the people you have to please. And about what happens if you don't. You need confidence. You need security. And you're not alone. Superintendents at some of the top courses in the country need the same thing. Which is why they use Barricade® preemergence herbicide to keep fairways, tees and roughs weed-free. So can you. Since Barricade has the longest residual of

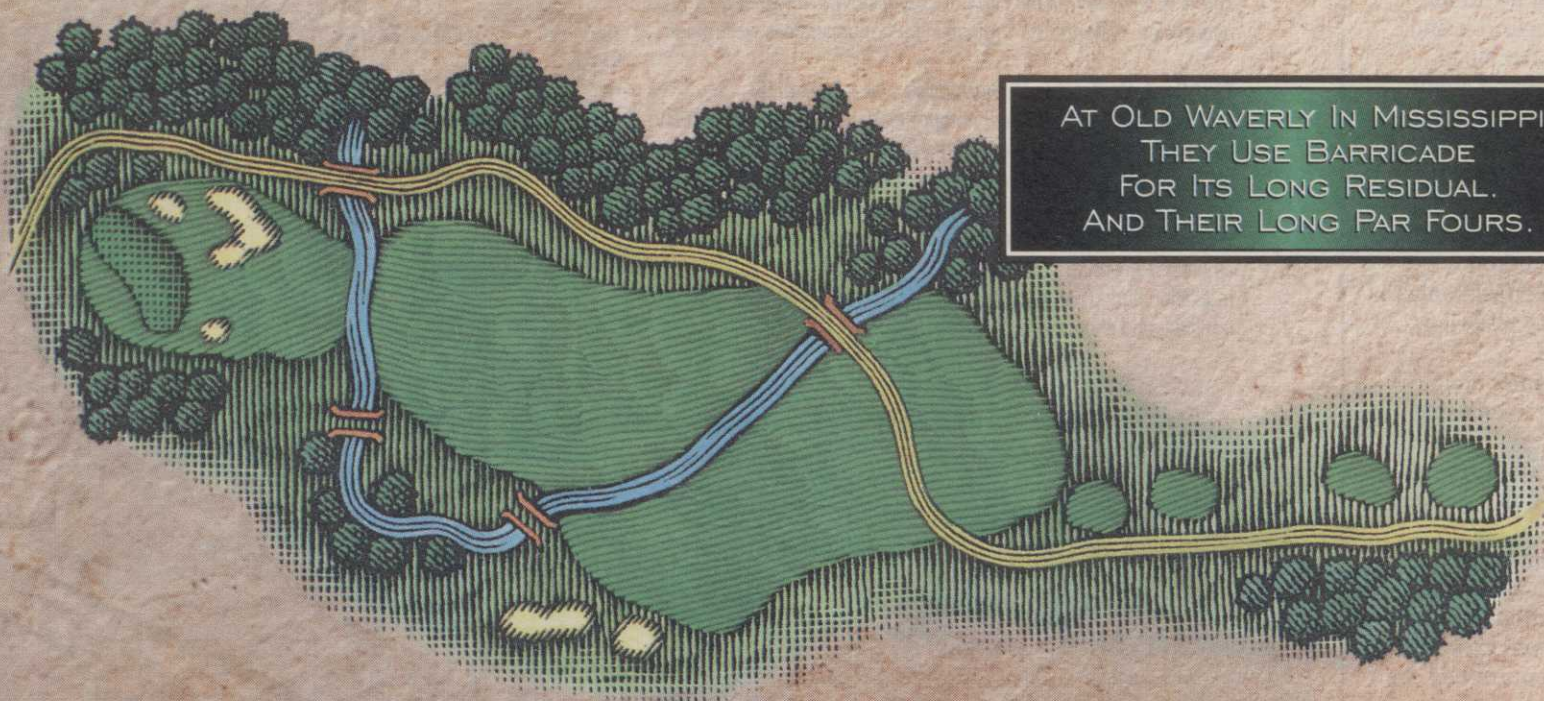


WESTWOOD COUNTRY CLUB
IS VIRGINIA'S PRIDE AND JOY.
BARRICADE KEEPS IT
WEED-FREE AND GORGEOUS.

any preemergence herbicide,
it gives you maximum flexibility.

You can apply when it's most convenient for you.

And have full confidence that you'll get excellent



AT OLD WAVERLY IN MISSISSIPPI,
THEY USE BARRICADE
FOR ITS LONG RESIDUAL.
AND THEIR LONG PAR FOURS.

Available
from:

Agra Turf
Searcy, AR 501-268-7036

Agriturf
Hatfield, MA 413-247-5687

Benham Chemical Co.
Farmington Hills, MI 810-474-7474

Cannon Turf Supply, Inc.
Fishers, IN 317-845-1987

Cornbelt Chemical Co.
McCook, NE 308-345-5057

E.H. Griffith, Inc.
Pittsburgh, PA 412-271-3365

Estes Chemical, Inc.
Wichita Falls, TX 817-766-0163

Fisher & Son, Inc.
Malvern, PA 610-644-3300

George W. Hill & Co., Inc.
Florence, KY 606-371-8423

GroTech/Pennington
Madison, GA 800-768-4578

Helena Chemical
Fremont, NE 402-727-9177

Helena Chemical
Tampa, FL 813-626-5121

THE 18TH AT VALHALLA
GOLF CLUB IN KENTUCKY HAS A
DUAL APPROACH. BUT JUST ONE
PREEMERGENCE HERBICIDE.

control of crabgrass,

goosegrass and other tough

weeds. Consistent control that lasts for

up to 26 weeks depending on the rate you

choose. For even more confidence and security,

Barricade keeps golf shoes and everything else

on your course stain-free. And since you're

applying as little as one-fourth as much active

ingredient, you'll reduce worker exposure and

lessen the environmental load. What's more, its

low water solubility means Barricade

will stay right where you put it, even on slopes

and hillsides. Choose from two different

formulations: on-fertilizer and sprayable.

Barricade really can provide the added confidence

and security you need. But only if you apply it.

For more details, talk to your authorized

Barricade distributor, Sandoz sales representative

or call 1-800-248-7763.

Barricade
HERBICIDE

THEY HAVE TO BE APPLIED.



SANDOZ

Always read and follow label directions. Sandoz Agro, Inc., 1300 E. Touhy Ave., Des Plaines, IL 60018. Barricade is a trademark of Sandoz Ltd. ©1995 Sandoz Agro, Inc.

Howard Johnson's Enterprises
Milwaukee, WI 800-642-4656

Knox Fertilizer
Knox, IN 219-772-6275

Lebanon Turf Products
Lebanon, PA 800-233-0628

Professional Turf Specialties
Champaign, IL 217-352-0591

Regal Chemical Co.
Alpharetta, GA 800-621-5208

The Andersons
Maumee, OH 800-537-3370

Turf Industries, Inc.
Dallas, TX 214-241-0545

Turf Industries, Inc.
Houston, TX 800-288-8873

Turf Supply Co.
Eagan, MN 612-454-3106

United Horticultural Supply
Aurora, OR 503-678-9000

United Horticultural Supply
Tampa, FL 813-628-0496

United Horticultural Supply
Tucson, AZ 520-293-4330

Vigoro Industries
Winter Haven, FL 800-329-4238

Wilbur-Ellis Co.
Auburn, WA 206-351-6591

Davis comment

Continued from page 9

supervisor space to make notes on site-specific course policies or any changes.

After the employee views the video tape, he or she is asked to complete a short written examination to insure complete understanding of the video. After the exam is graded, and I am confident the employee learned the material, his or her signature is required on a sign-off sheet that is placed in his or her personal file. Storing the exam, or the sign off sheet in the employee's file, decreases the potential of receiving an OSHA violation due to improper employee training.

Employees can only perform to your standards if they fully understand what is expected of them. A well-trained employee is able to do his or her job effectively and will feel rewarded by a job well done. If employees are not thoroughly trained and told what is expected of them, the job they perform will most likely be unacceptable. An employee who continually performs unacceptable work will probably be continually disciplined and will never feel a sense of accomplishment. The employee's morale then goes down and productivity decreases.

No training method will ever be fool-proof, but I have found videos to be a valuable tool in the training process.

Leslie comment

Continued from page 8

this, and they're not used to seeing grass die," said Patty Knaggs at Hazeltine Golf Club in Chaska, Minn. "They don't understand how complex the whole growing system is for turfgrass, or the lengths you go to to balance it. If you have poor drainage, you learn to be meager with your water. If you have a shady green, you spray extra chemicals there. But when you're faced with the weather, you can't make up for that imbalance."

Perhaps to their undoing, "su-

perintendents have gotten the reputation as 'can-do' guys," said Gary Grigg, president of the Golf Course Superintendents Association of America. "We can control genetics, fertilizer and fungicides. But we can't control the climate. Sometimes that's hard to explain to your members."

Grigg saw a possible correlation with "the higher-budget clubs that maintain their turf the finest: When they get in stress conditions, they get hurt the most."

The problem? At many private clubs, the superintendents are "walking a tightrope every day and it doesn't take much to push them over the edge," Grigg said.

It's ironic that because of pressure from the club members, superintendents sometimes push the turf over that fine line. And those club members who exerted the pressure are the ones holding the door open when the super gets the boot.

In other cases, club members just like to gripe. I recall a six-game winning streak by the Boston Red Sox a couple of summers ago. The Sox had just swept three-game series from both Minnesota and then-league-leading Detroit. But callers to a Boston sports radio station didn't want to discuss the win streak. They preferred to talk about the New York Mets' Anthony Young and his record 24-game losing streak.

Whatever case a superintendent faces at his club, some factors can help. "You really have to be strong with communications and hope you have good backing from the inner structure of the club, or you're out on the sidewalk," one super said.

Communications. That's one method that can help survive these trials.

"Most of the people understand through communication and education," another said, adding: "You have to have a thick skin during these times. Do your research and know who you are and you can get through this."

Possessing a strong character, and knowing who you are. Two keys to remember, because, as one fellow mentioned: "We may not have another year like this for 10 years. But we may have two more like it in the next five. You just don't know."

...

Merion Golf Club's new three-row system will put the club ahead of nature should the 100-year summer of 1995 be repeated in the future.

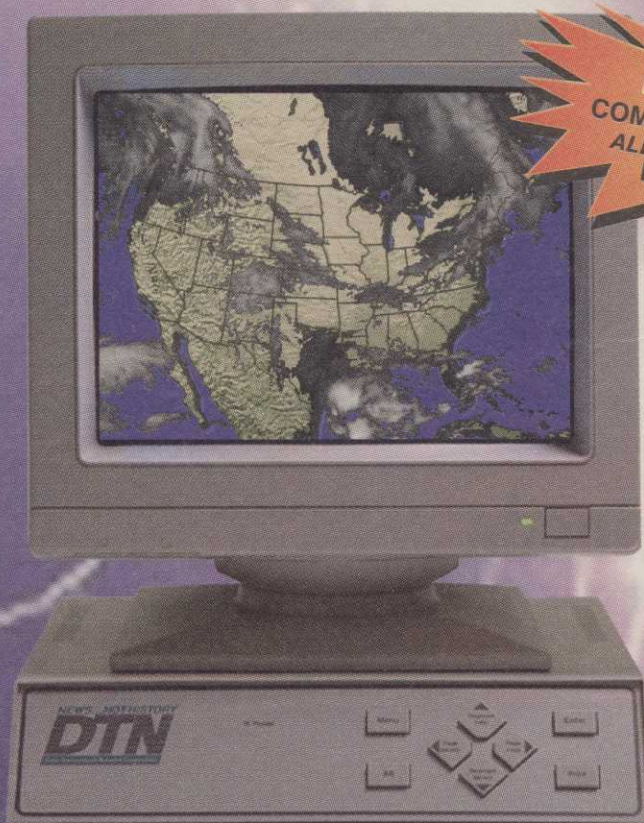
"Its whole purpose is to use less water more effectively and have firmer, drier playing conditions," said superintendent Paul B. Latshaw. "The inside heads throw water to the fairways and the outside heads throw it out to the rough."

"So if we get into drought restrictions and we do not want to water rough, we can cut it off and just water our fairways, greens and tees."

GOLF COURSE NEWS

DTN WEATHER CENTER

The first comprehensive weather service for course superintendents...providing 24-hour information at an affordable price!



Unlimited access to comprehensive weather information!

For the first time ever, course superintendents can have instant access to the most current – and complete – weather information available.

From timing chemical applications...to watering schedules and amounts...to mowing times...DTN Weather Center provides your course with the time-sensitive information you need to make the most efficient and environmental management decisions.

Everyday, 24-hours-a-day, DTN Weather Center gives you

over 70 continually updating maps, including:

- In motion local, regional and even national radar maps
- Current temperatures, wind speeds, humidity and sky conditions
- Severe weather maps and forecasts
- Over 200 major city forecasts
- In-motion satellite cloud photos

All at the touch of a finger!



Photo quality graphics. Complete audio capability. And an easy-to-use satellite system with no "phone-line" charges... no matter how often you use it!

DTN Weather Center is like an electronic weather magazine... with the information updating even as you read it. It very literally will change the way you look at weather!

For a free brochure, just call:
1-800-610-0777

9110 West Dodge Road • Omaha, NE 68114

CIRCLE #108

1. Circle the appropriate reader service numbers below. **2.** Print your name and address; answer all questions; sign and date this form. **3.** Affix postage and mail.

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

Reader Service and Free Subscription Card

October 1995 (expires 1/96)

IMPORTANT
All information must be provided for processing!

Do you wish to receive/continue to receive *Golf Course News* FREE? ☐ Yes ☐ No

Signature: _____ Date: _____

1 My primary title is: (check one only)

- ☐ A. Golf Course Superintendent
- ☐ K. Assistant Superintendent
- ☐ B. Green Chairman/Dir. Grounds
- ☐ C. Director of Golf/Head Pro
- ☐ D. Club President
- ☐ E. General Manager
- ☐ F. Owner/CEO
- ☐ G. Builder/Developer
- ☐ H. Architect/Engineer
- ☐ I. Research Professional
- ☐ J. Others allied to field (please specify) _____

2 My primary business is: (check one only)

- ☐ 01. Public Golf Course
- ☐ 02. Private Golf Course
- ☐ 11. Semi Private Golf Course
- ☐ 03. Municipal/County/State/
Military Golf Course
- ☐ 04. Hotel/Resort Course
- ☐ 10. Other Golf Course: (please specify) _____
- ☐ 05. Golf Course Architect
- ☐ 06. Golf Course Developer
- ☐ 07. Golf Course Builder
- ☐ 09. Supplier/Sales Rep
- ☐ 08. Other _____
(please specify)

3 Number of holes:

- ☐ A. 9 holes
- ☐ B. 18 holes
- ☐ C. 27 holes
- ☐ D. 36 holes
- ☐ E. Other (please specify) _____

4 Total annual maintenance budget:

- ☐ 1. Under \$50,000
- ☐ 2. \$50,000-99,999
- ☐ 3. \$100,000-249,999
- ☐ 4. \$250,000-499,999
- ☐ 5. \$500,000-749,999
- ☐ 6. \$750,000-1,000,000
- ☐ 7. Over \$1,000,000

5 Annual capital expenditure:

- ☐ A. Under \$100,000
- ☐ B. \$100,000 - 249,999
- ☐ C. \$250,000 - 500,000
- ☐ D. Over \$500,000

6 Purchasing involvement:

- ☐ 1. Recommend equip. for purchase
- ☐ 2. Specify equipment for purchase
- ☐ 3. Approve equipment for purchase

PLEASE PRINT

Mr. ☐
NAME: Ms. ☐
TITLE: _____
FACILITY/COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
TELEPHONE: (_____) _____ FAX: (_____) _____

Circle the appropriate number for product information.

101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140	141	142	143	144	145
146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200	201	202	203	204	205
206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235
236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260	261	262	263	264	265
266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295
296	297	298	299	300	301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320	321	322	323	324	325
326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355
356	357	358	359	360	361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380	381	382	383	384	385
386	387	388	389	390	391	392	393	394	395	396	397	398	399	400

My need for this information is: 1. ☐ Immediate 2. ☐ Future

All requests are subject to verification.

Publisher reserves the right to serve only those who meet the publication's qualifications. Free offer is for United States only. All Canadian subscriptions cost \$45.00 USD. All other foreign subscriptions \$125 USD. Non-qualified US subscriptions \$45. Payment must be received for subscription to begin.

Return Address



AFFIX
32¢
STAMP
HERE

GOLF COURSE NEWS
PO BOX 3047
LANGHORNE PA 19047-3047



BRIEFS



DON SWEDA DIES AT 48

COLUMBIASTATION, Ohio — Don B. Sweda, a certified golf course superintendent at Columbia Hills Country Club here, has died at the age of 48.



Don B. Sweda

Elected president of the Ohio Turfgrass Foundation (OTF) in December 1993, Mr. Sweda had served six years on the OTF board and was also a past president of the

Northern Ohio Golf Course Superintendents Association. He had previously worked at Beechmont Country Club in Cleveland.

WHITE JOINS RUTGERS

NEW BRUNSWICK, N.J. — Dr. Jim White, a world authority on endophytes in turfgrass, has left Auburn University in Alabama to join the staff at Rutgers University. White, who began his duties in September, has eight years experience in turf mycology.

POSTER HIGHLIGHTS BENEFITS

A new color poster that highlights the environmental benefits of golf courses is appearing at golf facilities across the country, thanks to a cooperative effort by the Golf Course Superintendents Association of America (GCSAA) and the United States Golf Association (USGA). The poster lists some of the key ecological and social benefits provided by the more than 15,000 golf courses in the United States, including protecting wildlife habitat and improving air quality.

BENTGRASS RESEARCH GREEN ENLARGED

NEW BRUNSWICK, N.J. — The Golf Course Superintendents Association of New Jersey and Rutgers University's Center for Turfgrass Research are collaborating to double the bentgrass area for bentgrass research here. The enlargement will allow researchers to evaluate the changes in construction recommendations for U.S. Golf Association-specification putting surfaces. More information is available from Drs. Bruce Clarke and Jim Murphy.

PENN STATE CONCLAVE SET

The Penn State Golf Turf Conference will be held at Nittany Lion Inn here, Nov. 7-9. More information is available from Dr. Peter Landschoot of the Department of Agronomy at 814-863-1017.

GCSAA, chapters float dual membership requirement

By PETER BLAIS

LAWRENCE, Kansas — A proposal that would have required anyone belonging to a local superintendents' association to also join the national organization by the year 2010 was hotly debated during September's Golf Course Superintendent's Association of America chapter relations meeting here.

What eventually emerged from the two-day conclave was a compromise measure mandating dual membership for new members beginning July 1, 1997. Anyone joining a local chapter after that date would also have to join the GCSAA. Likewise, anyone joining GCSAA would also have to join a local chapter. Existing members would not be required to join both organizations.

The proposal could be enacted on the national and local levels over the next few months.

Most of the 95 chapter representatives who met here to discuss the proposed chapter affiliation agreement agreed dual membership would increase the professional image of all superintendents.

But many disagreed with the requirement proposed by the GCSAA Chapter Relations Committee that all superintendents and assistant superintendents join both organizations. The proposal would have required that 51 percent of a local chapter's Class A, B and C members hold joint membership by the year 2000, 75 percent by 2005 and 100 percent by 2010.

"There are some existing members

who just don't want to join the national association," said Jim Hodge, president of the Maine Golf Course Superintendents Association (GCSA) and head superintendent at Val Halla Golf Club in Cumberland. "Most of us want to see 100-percent participation in both organizations. But there are other avenues to get there rather than simply requiring everyone to join by the year 2010."

A recommendation from the floor that the proposed chapter affiliation agreement be amended so that only new members be required to join both organizations gained the support of better than two-thirds of the chapter representatives, Hodge said.

"Requiring just new members to join

Continued on page 16



Flexigran and Play Bound make wooden walkways safe and aesthetic.

New products for wood ensure soft-spike safety

By TERRY BUCHEN

We are fortunate to have new technology available in the form of spikeless golf spikes. These spikeless alternatives have made our jobs easier in providing better playing conditions, and it will be interesting to see if they will survive the test of time. Many golf courses have banned metal golf spikes, favoring the "greens-friendly" spikeless varieties.

The only disadvantages: They sometimes will come loose and can become lost when used on an older set of golf shoes; and they are slippery on wooden bridge surfaces (especially if they have an incline) from the elements

of heavy dews, irrigation, rainfall and sometimes even fog.

To help eliminate golfers from potentially "falling to their knees," a couple of products can be applied to any wooden bridge surface with excellent results. Flexigran and Play Bound are two types of rubberized or urethane surfaces that are "poured-in-place" just like convert.

On wooden bridge applications, one-half or five-eighths of an inch top-grade waterproofed plywood is nailed to the bridge surface in any widths or configurations the superintendent desires. The rubberized or urethane prod-

Continued on page 17

SAVVY SUPERINTENDENT



Low pH can destroy pump stations as well as turf

By TOM LUBIN

Normally the most acidic rain and the most acidic lakes are found in the Northeastern United States and Southeastern Canada. In many cases the low pH has been traced to industrial air and water pollution in both countries. When the pH of lakes falls below 6.0, some species of fish and other organisms are affected adversely. Depending on the plant material pH values, lower than 6.0 may affect the plant metabolism adversely.

Acidic irrigation water available for use on golf courses and other irrigated facilities may cause problems not only for the plant material. It can literally dissolve the pump station. A case in point is at Banyan Tree Country Club in Phuket, Thailand.

Tom Lubin is a professor of chemistry at Cypress College in Cypress, Calif.

SECOND OF TWO PARTS

This golf resort was built on a site near an old abandoned tin mine. A combination of the very acidic irrigation water with a pH of 2.7 with an appreciable tin ion concentration literally dissolved the pump station over three months. A number of attempts to solve the problem failed, and for a period of time a welder was on call to repair leaks as they occurred.

The water at a pH of 2.7 essentially contained none of the buffering provided by the bicarbonate ion normally found on less acidic water. The only way to provide a long-term answer to these problems would be to re-establish the bicarbonate buffer. This was accomplished using dolomite (calcium and magnesium carbonate), the best quality powdered carbon-

ate containing material available locally. If a reliable source of calcium carbonate were available, it could have been used instead of the dolomite. This is the safest and most efficient method of both raising the pH of the water and creating a buffer to further pH change both in the water and ultimately in the soil.

At the Banyan Tree Country Club site, acidic deposits had built up over the many years of operation. Runoff from the old tin mine had acidified the ground water in the area and effectively destroyed the buffering capability of the irrigation water and the soil.

When the pH of any water or soil is lower than 6.0, the bicarbonate ion buffer is converted to carbonic acid. The carbonic acid can decompose and the buffer may be lost as carbon dioxide.

Continued on page 20



Schwarzenberger, Sand Creek and speedy kids

By MARK LESLIE

IDAHO FALLS, Idaho — What does a business administration degree-holder and hay-grain-sheep farmer have to do with a golf course? Everything, if you're Jim Schwarzenberger.

Indeed, Schwarzenberger is just now ready to drop the moniker of "hay-grain-sheep farmer" after 17 years of doing double-duty as superintendent at the municipal Sand Creek Golf Course here. He's about to finally concentrate solely on golf.

Schwarzenberger's penultimate crowning achievement was construction of a five-hole kids' course that opened in June. His ultimate accomplishment will be when he earns status as a certified golf course superintendent. "I've begun the certification process," he said. "I'm 61 years old, and I want to go out on a high note when I retire."

Born and raised on a farm, Schwarzenberger earned a degree in busi-

5-hole junior course sets youths apart to learn game, etiquette

ness administration from Idaho State. His goal all along was to farm. Yet, little did he know, more than three decades ago, those farming genes were going to change his life and livelihood. When the city of Idaho Falls bought 450 acres of the farmland he leased and decided to build an 18-hole municipal golf course, he was hired to help build the track and grow it in.

That was 17 years ago, and Schwarzenberger has been superintendent ever since — first learning from the knowledgeable hand of then-Idaho Falls Golf Course Manager Chuck Deming, and then from hands-on experience.

Finding Schwarzenberger — two jobs and all — too comfortable maintaining Sand Creek, Deming approached him eight years ago.

"He said, 'I have an idea for you. You don't have enough to do,'"

"Schwarzenberger recalled. That idea was to build a short course for kids 9 years old and younger.

That course may remain unnamed (JC for now), but it is now the talk of the town among golfers.

"Our concern was that we were being inundated with young golfers," Schwarzenberger said. "We need these young golfers to feed into the pipeline as they mature and become adults. Whether they stay here or move away, it helps golf. If I can paraphrase: This is a small step for junior golf but a giant step for golf."

"This is our thought: to help young people appreciate all of the great things that can happen with golf in their lifetime and to learn etiquette."

The kids' course is a unique adjunct to the city's youth program, which includes 600 participants at the three municipal courses, Schwarzenberger said. Children are trained in etiquette, rules and play. Accompanied by nonplaying parents, they are then released to play the kids' course.

"We feel it's a seed well planted," he added.

The response among adult golfers has been wholeheartedly supportive. "Golfers really appreciate it," he said.

Other superintendents might say, "But we can't afford such a thing." Yet, a key nugget to the Sand Creek story

is, it cost exactly \$660. And it would have cost nothing had the planned opening date not forced their hand to get the last sprinkler heads in the ground.

When Deming advanced the idea eight years ago, the two men set out immediately to get the job done. Assigning to the project a 20- to 25-acre plot of land adjacent to the 10th hole, Deming designed the little course, with help from Schwarzenberger. Traditionally slow Wednesdays became the operative days to put the crew of two full-timers and six summertime employees to work on the project.

Whenever Idaho Falls' street and water departments would tear out old water lines and so forth, that material became main lines on the kids' course.

Townpeople joined in in other ways. City Councilman Wes Diest, for instance, "was an entrepreneur in putting money together from various civic groups and individuals," Schwarzenberger said.

Many golfers donated money. One set up an account for the project at an area plumbing supply company,

Parks and Recreation Department Director Dave Christiansen became a key player.

Now their jobs are done — and on any Monday, Tuesday, Thursday and Saturday you'll find these single-digit-aged youngsters swinging clubs here.

None of the holes on the kids' course are longer than 150 yards. It contains grass bunkers but no sand traps. But, he said, "All the functions of maintenance are identical on the little course and the regulation course, such as the height of cut of greens and tees, so we can use our equipment without making adjustments."

Indeed, it is not a flat, uninteresting course, but a challenging one. "You can look out from the first tee and say, 'Hey, I want to play this course.' It gives you that kind of feel," Schwarzenberger said.

But Schwarzenberger may be the only superintendent in the country who can't play his own course — the junior course at least... He's not young enough.

Neither can his eight children or wife Lucille — who all golf. But perhaps granddad will at least be able to walk alongside his 2-1/2-year-old granddaughter when she plays it — in a couple of years.

UMass readies Green School for professionals

AMHERST, Mass. — The University of Massachusetts Extension has announced particulars of a comprehensive Green School it will operate here on 13 days between Jan. 3 and March 21.

Established for green industry professionals, the program is designed to provide training in horticulture fundamentals and their relationship to environmental quality. It is intended to instill "a sense of environmental stewardship."

With integrated pest management as a foundation, the 60-hour curriculum focuses on management of the landscape as a whole.

Divided into 2-1/2 hour sessions, topics include basic botany and plant structure, wood ornamentals, basic plant pa-

thology, basic entomology, tree and shrub insect and disease problems, soil properties, pruning trees and shrubs, basic irrigation systems, perennial plant identification and culture, clues for landscape design, alternative plant materials, turf physiology and management, weed biology and management, horticultural calculations, turf construction and maintenance, turf insects and diseases, understanding and using pesticides responsibly, environmental issues and regulations, and power-tool safety and maintenance.

The \$350 fee includes resource materials. Deadline for registration is Dec. 1 and can be made by contacting Kathleen Carroll at 413-545-0895 or Mary Owen at 508-892-0382.



Jim Schwarzenberger checks a newly planted tree — one of many transplanted from Sand Creek's nursery to the kids' course. They provide a safety screen from the regulation course, in addition to aesthetics and ecology, he says.

Same Idea, But Ours is a Little Easier to Swallow

Ever faced with "water-in-the-cup" problems? Here's a better remedy—use Par Aide's exclusive Cup Hole Cleaner, a syringe-action device that literally "pulls" water from the hole in seconds. So banish the turkey baster, sponges—or cocktail straws—from your greens kit and call your dealer today. Because when it pours, it reigns.



Model #950
Cup Hole Cleaner



Par Aide
Products Co.

3565 Hoffman Rd. East • St. Paul, MN 55110 • Voice: 612.779.9851 • FAX: 612.779.9854

By MIKE KENNA

For many years now, thousands of golf courses have managed perennial types of annual bluegrass on their putting greens. Many turfgrass scientists agree that these fine-textured bluegrasses belong to the species *poa annua* var *reptans*. To avoid using the oxymoron "perennial annual bluegrass," the common name of creeping bluegrass may be a more appropriate term.

Since 1983, the U.S. Golf Association has supported research to develop a seeded-type *poa annua* var *reptans*, or creeping bluegrass variety for the golf industry. The University of Minnesota project, conducted by Dr. Don White, took the approach that some of the perennial types of *poa annua* commonly found growing on older greens could be developed into a seeded variety. White felt what many superintendents consider an unwanted weed could be improved for widespread use in areas of the country where the species is very difficult to control.

The creeping bluegrasses were selected for their persistence under heat and cold stress, deeper rooting, darker color, fine texture and reduced flowering. Extensive laboratory and greenhouse trials were conducted during the 1980s to select the best parental lines. Limited testing at other university and golf course sites was difficult because of the small amount of seed available.

In 1994, three experimental varieties (MN#42, MN#184, and MN#208) were approved for release by the Minnesota Agricultural Experiment Station. An exclusive agreement with Peterson Seed Co. of Savage, Minn., was executed by the University of Minnesota Office of Research and Technology Transfer.

One-acre seed production fields were established in Oregon in fall of 1993. MN#42 has produced the most seed with the least amount of shattering. Seed yields for MN#42 have been around 300 pounds per acre. On the basis of seed yield and other factors, Peterson will concentrate on MN#42 as the first introduction from White's breeding program.

In addition to creeping bluegrass evaluation trials conducted at University of Minnesota, tests were established at Washington State University Experiment Station in Puyallup, Wash., and at University of Nebraska's John Seaton Turfgrass Research Center in Mead, Neb. Thusfar, the creeping bluegrasses have done very well in Dr. Stan Braun's test in Washington. The climate at the test location south of Seattle is very favorable to creeping bluegrass. However, the Nebraska summer has been rough on the three varieties tested by Dr. Bob Shearman and his colleagues. Last July, the creeping bluegrass plots were not performing as well as the bentgrass putting green plots.

Dr. Michael Kenna is director of Green Section research for the U.S. Golf Association.

GOLF COURSE NEWS

Breeders make progress with annual bluegrass

Where, when and if these creeping bluegrasses are used will depend on successful experiments under golf course conditions. The coastal climates of California, Oregon and Washington may be able to grow these creeping bluegrasses successfully. Northern locations with mild summer temperatures may also have success with these grasses, but their tolerance to periods of extensive ice coverage is unknown.

...

Over the years, there has been discussion about overseeding



creeping bluegrasses onto hybrid Bermudagrass greens. The transition period during the spring would be similar to *poa trivialis* in Southern climates,

where golf courses overseed putting greens. This method will need to be researched extensively before any recommendations can be made.

One of the biggest hurdles to overcome is, where will creeping bluegrass seed be produced? Commercial seed companies and producers are very concerned about growing creeping bluegrass near bentgrass, ryegrass, Kentucky bluegrass, or tall fescue production fields. Superintendents purchasing seed for these and other cool-season species will not

tolerate contamination with creeping bluegrass seed.

A great deal of research must be completed before creeping bluegrass becomes a viable turfgrass for golf courses. We know that in some areas of the country it is very difficult to control *poa annua*. How would you prevent annual bluegrass from invading the desired perennial variety? At least now there are a few experimental varieties on which to conduct tests. With the help of golf course superintendents and university faculty, we will be able to conclude whether creeping bluegrasses have a future in golf.

"American Cyanamid And I Want to Give You \$10,000."

A. Thomas Perkins, Ph.D.

Business Manager

Professional Turf, Ornamental & Pest Control Products

GCSAA hopes to work membership deal with local chapters

Continued from page 13

both groups was more palatable to just about everyone," said Mark Ruff, president of the Intermountain GCSA and head superintendent at Mountain Dell Golf Course in Salt Lake City.

"Guys coming out of school today all know about the benefits of GCSAA and are more likely to join anyway," added Hodge. "We'll eventually get to the 100-percent level this way. It may take a little longer. But there are no deadlines and no existing members will be forced to leave their local organization because they don't want to join the national."

GCSAA Vice President Bruce Williams, who chairs the chapter relations committee, said he was pleased with the compromise.

"The consensus was that we go with a two-way [dual] membership," he said. "Whether we phased it in over 15 years or just required it of new members didn't make a great deal of difference."

GCSAA and chapter representatives conceded the \$210 annual GCSAA dues may present a hardship for some superintendents, especially those at smaller or remote clubs where employers are less likely to pay for a superintendent's GCSAA dues.

"We [GCSAA] deal with membership prices all the time," said Williams, who noted dues have remained the same the past six years. "And we sympathize with those situations. But we have to look at the good of the profession as a whole. If a club won't pay for its superintendent's dues, then the individual must decide whether the services GCSAA provides are important enough for the superintendent to contribute to the profession himself."

The new agreement could lead several smaller superintendent chapters and/or turfgrass associations with a mix of superintendent, landscape architects, sod producers, etc. to drop their affiliation with GCSAA, Williams said.

"We [GCSAA] are poised to give those groups any assistance we can," Williams said. "We could lose a couple. Or they might reorganize and come back in another form. It's not our intent to lose chapters. But as we attempt to strengthen the profession, some individuals and groups may have to jump through a few more hoops."

The Chapter Relations Committee, Williams said, has been reviewing the dual membership question as part of its ongoing effort to improve cooperation between the

national and its affiliated associations. Little has been done to enforce the existing affiliation agreement for the past dozen years, Williams noted.

"We need to strengthen a relationship that had started to fall apart," said Williams, who will assume the GCSAA presidency in February. "The affiliation agreement is a big part of that. To enforce the old agreement without input



'It's not our intent to lose chapters. But as we attempt to strengthen the profession, some individuals and groups may have to jump through a few more hoops.'

— Bruce Williams
GCSAA vice president

from the chapters would not have been fair."

Chapter representatives were impressed with GCSAA

officials desire for their input and willingness to listen to their ideas during the meeting. "Four years ago when we

were considering some new bylaw amendments, there was no trust between the members and board of directors," said Bob Maibusch, a past president of the Chicagoland GCSA and board member of the Midwest GCSA. "There seemed to be a lot of hidden agendas."

"No one accused this board of that. Everything was above board and we had a very open dialogue. Now we can move forward as an association."

Introducing *new* PENDULUM Plus Fertilizer And the PENDULUM Plus Fertilizer

Pick the weed that PENDULUM Plus Fertilizer *doesn't* control, complete & mail the entry form, and you may win \$10,000 in cash!



LARGE CRABGRASS
Digitaria sanguinalis



ANNUAL BLUEGRASS
Poa annua



CHICKWEED
Stellaria media



KNOTWEED
Polygonum aviculare



GREEN FOXTAIL
Setaria viridis



GIANT FOXTAIL
Setaria faberi



SPURGE
Euphorbia spp.



EVENING PRIMROSE
Oenothera biennis



GOOSEGRASS
Eleusine indica

"Once in a great while, a product comes along that deserves not just a minor mention, but a major announcement. PENDULUM® Plus Fertilizer belongs in that category."

A. Thomas Perkins, Ph.D.

American Cyanamid is so excited about introducing new PENDULUM Plus Fertilizer, we're giving away \$10,000 in cash to the ultimate weed picker. PENDULUM brand Pendimethalin has earned a reputation for providing cost-effective, broad spectrum, season-long, preemergent control against many troublesome weeds. And now it's available on quality

fertilizers from American Cyanamid, the leading manufacturer of preemergent turf herbicides.

PENDULUM Plus Fertilizer controls all the troublesome weeds that PENDULUM alone does, including crabgrass, goosegrass, foxtail, oxalis and spurge. In fact, it controls every one of the weeds illustrated above *and more*. So the correct answer to our question is actually "none." Remember *that* when you're filling out your entry form. It could win you \$10,000 in cash!

PENDULUM also offers greater flexibility than ever before, since it is also available in 60 WDG and 3.3 EC sprayable formulations. And now, like all Pendimethalin based products, it's more affordable, thanks to special cash rebates available to you through July 31, 1996.

Chapters to face votes on a variety of GCSAA national proposals

By PETER BLAIS

The proposed chapter affiliation agreement that the national and local superintendents' associations will be working on over the next few months contains other items in addition to the dual membership requirement.

Golf Course Superintendents Association of America Vice President Bruce Williams said the proposed agreement, which includes many of the items contained in the existing pact, would also require that:

- affiliated chapters be incorporated;
- all officers of local chapters be superintendents and the majority of board members be superintendents;
- chapters submit annual reports;
- chapters send a representative to the annual chapter relations meeting and a representative to vote at the annual meeting;
- all chapters obtain a minimum of \$1 million in liability coverage for officers and directors;

- all chapters obtain tax-exempt status.

The Chapter Relations Committee will submit its proposal to the GCSAA Board of Directors in time for the board's fall meeting sometime in October. The board can implement the affiliation agreement without a vote of the full GCSAA membership.

The Standards and Bylaws Committee, chaired by Immediate Past President Joseph Baidy, will also submit any proposed bylaw amendments to the board

that it feels are necessary to comply with the proposed chapter relations agreement. Two-thirds of the board would have to approve putting any amendments before the GCSAA membership for a vote at February's annual meeting in Orlando.

If approved, the local chapters would have approximately 15 months to approve any local bylaw amendments or other changes needed to comply with the new chapter affiliation agreement, Williams said.

Product makes walking safe with soft spikes

Continued from page 13

uct is mixed just like concrete and literally poured onto the plywood at about half inch thickness. After either product sets-up for a while, any shape that is desired can be imprinted into the surface, such as rectangles to make the surface look like bricks, or squares to make it resemble paver blocks. Another interesting feature of these two products is they come in eight to 16 colors. They even can custom-make a color for the superintendent's own course conditions.

The rubberized product is literally made of many tiny pieces of recycled rubber and affords a nice resiliency when walked on or being driven over with golf cars and maintenance vehicles.

Another important advantage to these products is they are resilient to traditional metal golf spikes as well, so either type of golf shoe will benefit from this excellent bridge surface. Many superintendents have also used this product to cover concrete surrounding a golf shop, clubhouse or halfway house area, for obvious reasons.

Other alternatives to these two products:

- Use rolls of rubber matting and nail/glue them to the bridge surface; use a plastic synthetic grass surface, attach plywood to the bridge surface and then glue the synthetic grass to the plywood;
 - Use the many types of interlocking rubberized products employed in the food-and-beverage business behind bars and inside kitchens; they can be bolted or glued to a bridge surface and come in many different colors and styles available;
 - Paint the bridge surface with the many types of non-slip coatings available in many different colors and textures;
 - Try the spike-proof carpet used inside the lockerroom; it will withstand use out-doors;
 - Try driving range golf tee rubberized mats; they also work well;
 - Use self-adhesive anti-slip tape; it can work if it is strong enough to withstand the elements;
 - Try an approved indoor-outdoor carpet suitable for metal spikes.
- Insurance companies will be quite happy to receive pictures and information about any of these non-slip products.

PENDULUM® Plus Fertilizer, M Plus Sweepstakes.



SOUTHERN CRABGRASS
Digitaria ciliaris



HOP CLOVER
Trifolium procumbens



BARNYARD GRASS
Echinochloa crus-galli



CUDWEED
Gnaphalium purpureum



FALL PANICUM
Panicum dichotomiflorum



PURSLANE
Portulaca oleracea



LAWN BURWEED
Soliva pterisperma



HENBIT
Lamium amplexicaule



OXALIS
Oxalis spp.



Broad spectrum. Season-long control. Cost-effectiveness. Flexibility. And a chance to win \$10,000 in cash.

Looking for a preemergent herbicide that offers more? We don't think you'll find one.

Sweepstakes Rules: Offer available to professional product end-users only. Distributors or other individuals reselling product not eligible. No purchase necessary. Limit one entry per person. Complete the entire form. Incomplete information will nullify entry. All entries must be postmarked no later than March 10, 1996. Two winners will be selected, one each from the golf course and lawncare industries, from a random drawing to be held March 15, 1996. If prize is not claimed, additional random drawings will be conducted until all prizes are awarded. Estimated odds of winning are 10,000 to 1. The winners will be contacted by telephone and/or mail by an American Cyanamid Representative. All applicable taxes are the responsibility of the winners.



YES, I'D LIKE TO BE A \$10,000 CASH WINNER.

NAME _____
TITLE/COMPANY _____
ADDRESS _____
CITY _____ STATE _____
ZIP _____ PHONE _____

Amount of preemergent herbicide purchased annually:
Preemergent + Fertilizer _____ lb Sprayable Preemergent _____ lb/gal
Brands of preemergent herbicides used in the past year: _____

☐ Please send me additional information on PENDULUM Plus Fertilizer. Which of the weeds shown does PENDULUM Plus Fertilizer NOT Control? _____
Mail this form to: PENDULUM PLUS Sweepstakes, C/O M&B Associates, P.O. Box 8575, Trenton, NJ 08650-9871

PTO-952

Tailor-made soil storage building crucial to maintenance complex

By TERRY BUCHEN

Most superintendents have a modern soil storage building as part of their maintenance building complex to make operations that much more efficient. Designing this type of storage facility usually takes local conditions into account, tailor-making it for individual golf course needs and superintendent's objectives and goals.

The soil storage building shown at right is located at a newer course in the Midwest. The four bays face due south to take advantage of the sunlight to keep the materials as dry as possible and to also take advantage of the southwest prevailing wind which also helps in the drying process.

Each bay is 14 feet wide by 20 feet long and is made out of poured concrete using a form that makes the concrete look like it is made out of bricks. The concrete walls are 6 feet high and covered with an angled roof using post-and-beam construction

which are covered with a metal-type siding and ribbed metal roof.

All four bays have been designed with the future in mind as 14- by 12-foot garage doors can be added at any time, if the superintendent so desires to keep out rainfall and for added security measures. The floors are poured concrete with and additional 16- by 70-

foot concrete apron poured in the front of the building at the same time as the floor to keep the materials clean from mud and debris. The floors are 6 inches thick with reinforcing rods designed to handle the weight of the dump trucks and front-end loader tractor.

The angled roof is 12 feet high at the highest point to accommodate a tri-axle dump truck that can back all the way into each bay, then raise the dump truck bed as it pulls forward.

This roof can be raised much higher to handle this size of truck easier or even 18 wheeler-type dump trucks. However, in this particular case it was



SHOP TALK



Storage facilities keep soils, sands and mixes safe and dry.

kept at 12 feet purely for aesthetic and zoning law reasons.

The concrete floor must obviously surface-drain toward the front. The concrete apron should drain away from the front to keep any unwanted surface drainage water from being anywhere near each individual bay.

The lower part of the roof has gutters and one downspout at each corner, taking water away on the extreme side of the concrete apron with no chance of it getting into the storage bays.

Some superintendents in the dryer climates do not install a roof or for budget reasons.

They just build the storage building and have a roof designed-in to be installed at a later date. Some buildings have a large exterior light above each

bay and another light shining out into the concrete apron as the bays are used for road salt/calcium chloride usage during the off-season for ice and snow removal operations that are provided at nighttime.

Most superintendents store greens topdressing, topsoil, bunker sand, drainage gravel, clean soil fill material, decorative landscape gravel and decorative mulch/bark.

Also incorporated into the design is that if priorities ever change, these soil storage buildings can be transformed into storage and a multitude of other uses as far as the mind can imagine using the 12-inch-thick vertical walls for support. With this future use in mind, electricity can be prewired or at least have empty conduit installed for further ease.

Warren's Group just took the headaches out of buying sod and sprigs!

100% guaranteed

- ① pricing
- ② availability
- ③ quality and uniformity
- ④ on-time delivery
- ⑤ superior sodding and sprigging services for golf courses and sports fields

Warren's Turf

Warren's Group, Inc.

In Indiana Call: 1 800 954-5577

In Texas Call: 1 800 252-3648

In Northern California Call: 1 800 828-8882



southern turf nurseries

Warren's Group, Inc.

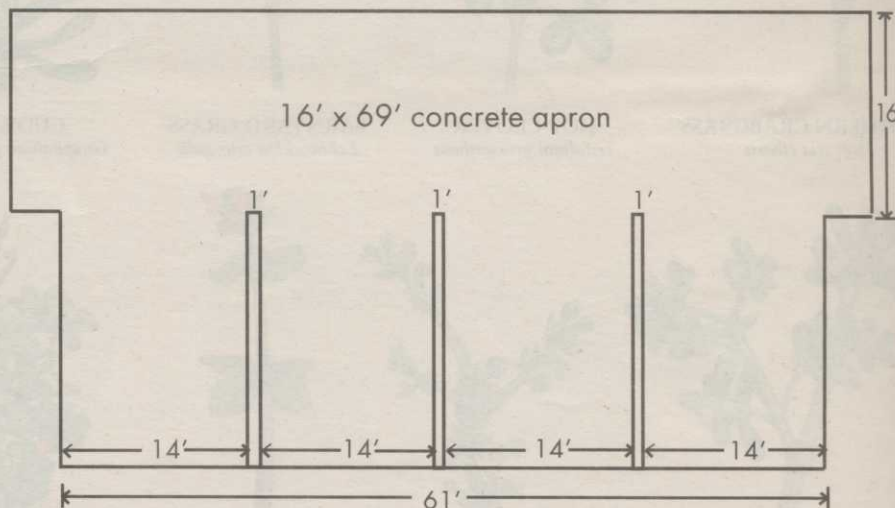
In Georgia Call: 1 800 841-6413

In Virginia Call: 1 800 922-8873

In Hawaii Call: 808 293-1544

100% satisfaction guaranteed. Period!

Call us for more information.



The measurements of the soil-storage building at Double Eagle Club in Galena, Ohio.

Tradition of Excellence Award nominees sought

MARYSVILLE, Ohio — The Scotts Co., sponsor of The Tradition Golf Tournament, is accepting nominations for its 1996 Scotts Tradition of Excellence Award.

Established in 1994 to recognize outstanding achievements among golf course superintendents in advancing the science of course maintenance, the award will be presented at The Tradition tourney in Scottsdale, Ariz., next April.

The selection committee consists of former Golf Course Superintendents Association of America presidents and Dave Heegard, vice president of ProTurf for The Scotts Co.

Nomination forms are available by calling Darlena Huffman of The Scotts Co. at 513-644-7633; Deb Strohmaier at Lord, Sullivan & Yoder, Inc. at 614-846-7777; or Burke Beeler, GCSAA Founda-

tion manager, at 913-832-4465.

Nominating criteria are:

1. The nominee must be actively employed as a golf course superintendent.
2. Their course must be well maintained.
3. The nominee must have shown good teaching and mentoring qualities throughout his or her career.
4. He or she must be a leader, helping to further understanding of and within the profession through communication, which could include speeches to organizations or writing for publications.
5. The nominee must demonstrate environmental responsibility for his or her work.
6. He or she must have been involved with research and innovation in cultural or management practices.
7. The nominee must be involved professionally at the local level.

Revisiting The Maples Method of Measuring Putting Greens

By MARK LESLIE

LAWRENCEVILLE, Ga. — Tried and true. Timeless and universal. The Maples Method of Measuring Greens, unveiled to superintendents three decades ago, deserves an encore introduction to superintendents everywhere.

Developed by superintendent Palmer Maples Jr., the measurement system provides a way to determine the size of putting surfaces in order to figure how much pesticide, fertilizer or other materials to apply.

"It's timeless," Maples said from Summit Chase Country Club here — some 31 years after he first developed the measuring method out of necessity. He had taken a job at Charlotte (N.C.) Country Club, where there were no scale drawings of the greens or the locations of sprinkler heads and other helpful information.

"There are other methods but not a better method," Maples said. "It is universally helpful to superintendents if they don't have scale drawings of their greens."

At Charlotte CC, Maples needed to know the area of the greens for material applications "and also have a scale drawing of the greens so that I could plot out the drainage. If we ever wanted to change the greens, I could know how many square feet we were adding. And if I had to move the sprinkler around, it could be used for that."

With scale drawings in hand, he and the club professional could also make such decisions as cup placements for tournaments or other events.

The Golf Course Superintendents Association of America (GCSAA) published the Maples Method when former GCSAA President Maples was director of education.

The method is easy and accurate, requiring only a two-foot square of plywood, a 100-foot tape and graph paper:

- A 12-inch circle is drawn on the board and marked at 10-degree intervals. A small screw in the center acts as a measuring point. Four small nails through the corners of the board hold it in place at the center of the green. The 0-degree mark should point toward the rear of the green and the 180-degree mark toward the fairway.

- The tape is placed on the center screw and a measure is made to the edge of the green over the 0-degree mark and recorded. Next, a measure is made over the 10-degree mark to the end of the green and recorded. Repeat this procedure at each 10-degree mark.

- When all 36 measurements are recorded, add them, divide the total by 36, then square that figure (multiply the number by itself).

- Multiply this figure by 3.1416 (pi) and the result is the total square feet.

This method works well for greens that are mostly circular in shape, Maples said, adding that a mathematician suggested a different method on greens that are oblong or kidney-shaped. In that case, rather than adding the 36 measurements, Maples said to square each one as it is taken, then add all the squares up, divide by 36 and multiply that figure by 3.1416.

Maples said he has tried other techniques, notably using a rolling measur-

ing tape and walking around the green with it to get the circumference and tabulate the area from that. "For some reason, it won't work," he said.

Meanwhile, superintendents will want to place their measurements on graph paper using a scale of, say, 1 inch equals 10 feet.

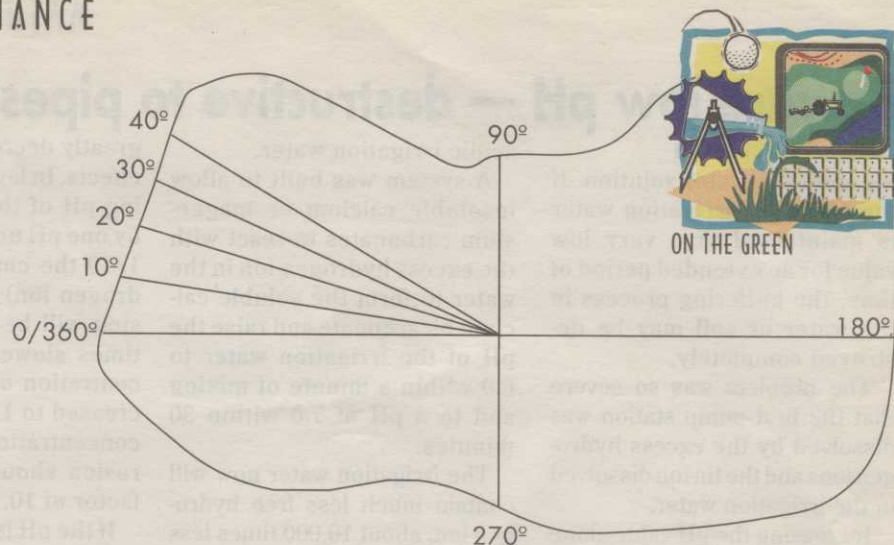
The method ultimately helps the superintendent better use materials and personnel, Maples said.

"If we over-apply certain materials, not only is there wasted product, but there is the potential of injury to the permanent turf," he said. "If we apply too little prod-

uct, we don't get good results and additional applications have to be made.

"In the case of pre-emergent material, once you pass the right time of application,

you cannot make an adjustment. Therefore, the exact amount must be applied at the exact time. The same situation may exist when seed is being applied."



If Silence Is Golden, Our DS Gas Cars Are Way Underpriced.

Noise was never meant to be part of the game of golf. But if your operation depends on gas powered cars, engine noise from an active fleet can make your otherwise peaceful course sound more like a go-cart track. That is, unless you have Tranquility.[®]

With Club Car's revolutionary Tranquility powertrain, our DS Gasoline is every bit as smooth as an electric car, and almost as quiet. But don't think that such quiet performance comes at the expense of power. Its 9-rated horsepower, overhead valve, 4-cycle engine makes the DS Gasoline powerful, clean running, and fuel efficient.

To hear the full story on our DS Gasoline, call 1-800-643-1010 for the Authorized Club Car Representative nearest you. If you're looking for an affordable way to give your members less noise, this is your golden opportunity.

Golf's Driving Force.

Club Car[®]

Beware low pH — destructive to pipes and turf

Continued from page 13

ide from the water solution. If the pH of the irrigation water is maintained at a very low value for an extended period of time, the buffering process in the water or soil may be destroyed completely.

The problem was so severe that the first pump station was dissolved by the excess hydrogen ions and the tin ion dissolved in the irrigation water.

Increasing the pH value alone is not adequate to solve the problem. Basic compounds such as lime (calcium hydroxide) could be added to raise the pH, but there is no buffer created. This would mean that with only a slight excess of the lime the pH would raise to approximately 11.0.

If a buffer were created the pH could be easily controlled to and maintained at a safe pH. The buffering allows the pH to be raised and maintained at the desired pH value.

As the carbonate is metered into the irrigation lake, the pH is quickly raised to 7.4. Bicarbonate ion is formed in the irrigation water as the solid carbonate is reacted with the

acidic irrigation water.

A system was built to allow insoluble calcium or magnesium carbonates to react with the excess hydrogen ion in the water to form the soluble calcium bicarbonate and raise the pH of the irrigation water to 6.0 within a minute of mixing and to a pH of 7.0 within 30 minutes.

The irrigation water now will contain much less free hydrogen ion, about 10,000 times less free hydrogen ion than before the reaction with the calcium carbonate.

The concentration of the tin ion in solution is decreased by reaction with the bicarbonate that is formed in solution. An insoluble soil tin (II) carbonate is formed and can be dropped out of solution.

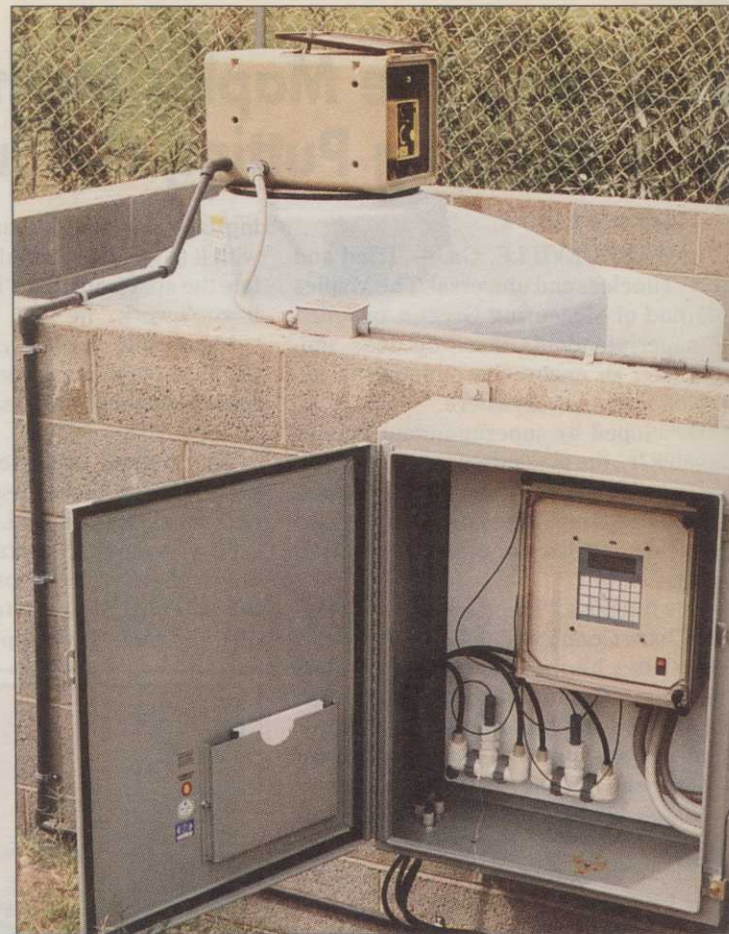
The bicarbonate ion concentration, HCO_2 , has been increased from essentially zero PPM to a point where the concentration where the bicarbonate ion (HCO_3^-) can reach with the problem tin (II) ion in the irrigation water.

Raising of the pH to near 7.0 in combination with a decrease of the tin concentration will

greatly decrease the corrosive effects. In layman's terms: Raising pH of the irrigation water by one pH unit (one pH unit is 1/10 the concentration of hydrogen ion) the rate of corrosion will be approximately 10 times slower, and if the concentration of the tin were decreased to 1/10 of the original concentration, the rate of corrosion should be slower by a factor of 10.

If the pH is raised from 3.0 to at least 6.0, three pH units, the hydrogen in concentration is decreased by a factor 1/1000. As the carbonate dissolves, the bicarbonate buffer can also be re-established in the water solution. The tin ion or other metal ions such as copper, etc. in solution should decrease by at least 1/1000 as the ions react and drop out of solution as insoluble carbonates. The overall corrosion rate of iron parts of the irrigation system should be at least 10,000 times slower. This change can provide longer irrigation equipment life.

The plant material irrigated with this water buffered to near 7.0 can, over time, help to re-establish the soil buffer near 7.0.



The unit developed to control water pH in an irrigation system.

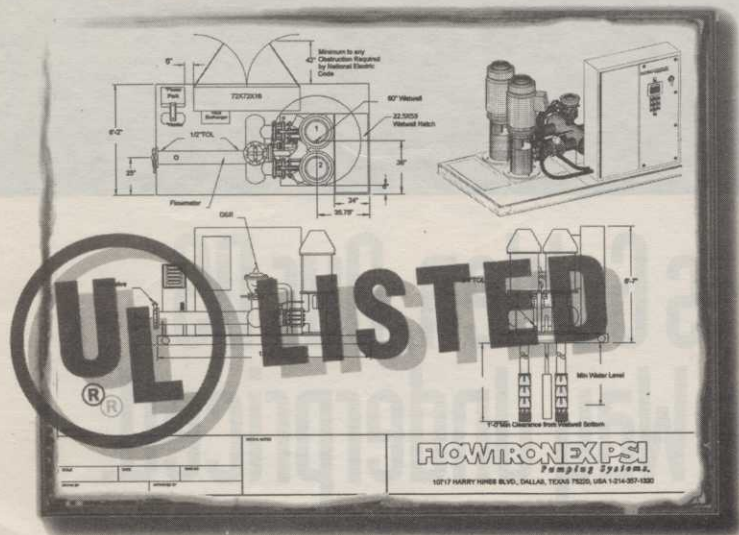
The plant material is under much less stress because of not having to work against the pH gradient, and the trace minerals are more in balance.

Beneficial soil organisms are more able to attain a desirable balance in a soil if the pH were maintained near 7.0 than in acidic soil conditions.

Another First

FROM FLOWTRONEX PSI

COMPLETE STATION UL LISTED



Once again, FLOWTRONEX PSI offers a level of quality assurance unmatched in the industry. Underwriters Laboratories (UL), the most widely recognized independent testing service in the country, evaluated our Silent Storm pumping systems and found them to meet UL Standards for Safety. That's why the UL Mark of Safety is on every Silent Storm pump station, covering the **ENTIRE** pump station, from controls to conduit and skid to discharge manifold. It's just another example of how FLOWTRONEX PSI leads the way for the turfgrass industry.

FLOWTRONEX PSI
Pumping Systems

FLOWTRONEX PSI Ltd 1-800-786-7782

10717 Harry Hines Blvd. Dallas, Texas, U.S.A. 75220

phone 214-357-1320

© 1995 FLOWTRONEX PSI Ltd

fax 214-357-5861

UT 007A, 4-95



'They bought me a nice fishing rod and reel and we had all kinds of parties and all. But I never got the line wet.'

— Richie Valentine
not retired

Un-retired Valentine: Open for business in consulting and sales

By MARK LESLIE

BRYN MAWR, Pa. — Merion Golf Club kept his rapt attention as superintendent for 42 years. Now the "retired" Richie Valentine has set his sights on advising other people on agronomic problems at their golf courses.

Under the name Valentine Golf Associates Inc., Richie is offering his expertise as a consultant, while sons Tom and John run Valentine & Sons, a golf course service and supply business.

When he retired from Merion in 1989 at the age of 62, "they bought me a nice fishing rod and reel and we had all kinds of parties," Valentine said. "But I never got the line wet."

Instead, he made his time available as

a turfgrass consultant. Requests for his services grew and grew until he had to "level off," he said, adding that he is trying to remain in the Pennsylvania area, near his family.

"A superintendent works nearly seven days a week. At least he worries about it [his course] seven days a week," Valentine said. "I had offers [to work], but I had to level off."

Reducing the consulting work, Valentine decided with Tom — a communications and marketing expert — to enter the service and supply arena. John has since joined them.

"We rep for eight companies," Valentine said. "I try to pick companies I think are unique."

Turfgrass producers revise guide to sodding

ROLLING MEADOWS, Ill. — A newly revised and expanded edition of *Guideline Specifications to Turfgrass Sodding* is now available from Turfgrass Producers International. The 20-page booklet offers the turfgrass sod industry's most up-to-date recommendations for the sod itself as well as specifications for topsoil preparation and materials, pre-installation fertilization, installation techniques and post-installation maintenance.

The newest edition divides a turfgrass

sodding project into six distinct areas. This will enable a firm to adopt specifications necessary for any or all of a project's segments, in a comprehensive, business-like and manageable way. The guidelines also contain an expanded section to help specifiers understand, determine and detail the type or quality of turfgrass sod necessary for a particular site.

Individual, complimentary copies may be obtained from TPI, 1855-A Hicks Road, Rolling Meadows, Ill. 60008.

The 100-year summer strikes

Continued from page 1

"If you had bentgrass greens, you were basically fine. But if you had *poa annua* greens, it's been a real problem. And, in certain places, you were in trouble with ryegrass on the fairways because of a disease called *Pyricularia grisea* (gray leaf spot) found normally in Bermudagrass and centipede. This year ryegrass got it from the Mid-Atlantic to Kentucky. I've seen this disease twice on ryegrass in 24 years.

"Put these ingredients all together and you have some hurting golf courses. All have suffered... There weren't many umbrellas over the golf courses."

Bob Brame of the USGA North-Central Region agreed. "It was so bad... Greens, green embankments, fairways — there are scars everywhere," he said. "A number of courses are doing major renovations — aggressive overseeding and some sodding — and using temporary putting surfaces while renovating their permanent greens."

Wet wilt, Brame said, has been a major problem because "there's no way to treat it. It happens when soil can't drain, and it kills the grass quicker than anything. Usually you see very little of it, never to the extent we've seen it this year."

"I've been here two years and we've had a 50-year ice storm and now a 50-year drought," lamented superintendent Dan Pierson of Wilmington (Del.) Country Club. "We're looking at more financial loss this year than the ice, and that cost \$75,000 for restoration. I have no viable roughs now. Our fairways are 30 to 40 percent dead."

At Chester Valley Golf Club in Malvern, Pa., superintendent Kirby Putt closed the course from Aug. 28 to Sept. 16 "to try to re-establish some of the greens where the *poa annua* was left."

At Merion Golf Club in Ardmore, Pa., superintendent Paul B. Latshaw took advantage of the disaster to do a project he had planned for later in the year. Looking at three or four *poa annua*-dominated greens that had lost 30 to 40 percent of their turf, he closed the course to install a new irrigation system.

"This made the most sense," Latshaw said. "If we were ever going to do the fumigation, the timing was perfect."

Putt and Latshaw blamed heat and humidity rather than the drought for the turf loss at their clubs. Putt added another culprit: an untimely drenching (3-1/2 inches of rain that flooded most of the course on July 21) and the fact he could not get the moisture out of his greens.

Latshaw added the fact that "we got hit with every disease *poa annua* can get — from anthracnose to summer patch, root Pythium, everything. We had soil temperatures at one point above 100 degrees. It was absolutely brutal."

Minnesota experienced the second-highest dew point numbers on record, said Patty Knaggs of Hazeltine National Golf Club in Chaska. "There were large amounts of lots of diseases, including pythium that never went away and take-all patch," she said. "And a lot of people reported breakthroughs with their chemical controls. The labeled rates didn't last as long as they should have because disease pressure was extraordinary."

With 30 inches and more of rain being dumped on South Florida courses in 30 days, many closed down, said Grigg, who kept nine holes open at the 36-hole Royal GOLF COURSE NEWS



Scenes like this were numerous across the country. Excessive heat and humidity, combined with drought, made it unusually difficult to grow in this new course.

Poinciana Golf Club in Naples.

"The mole crickets, sod web worms and other insects really relish the moisture — as do nutsedge and other weeds," he said. "And we can't get out to spray for them. It's like a sponge."

The fairways at Worthington Golf Country Club in Bonita Springs, Fla., were under water for more than three weeks in mid-September, said superintendent Kevin Selsor. "We're losing 2 inches a water a day, vertically, and we're looking at two to three weeks before all the water is drained off. That is, if we don't get another storm."

"We have a lot of major problems. We still have live roots and green leaf tissue. But with another two to three weeks to go, we just don't know what we'll be facing. Temperatures are in the 90s and the water is warm. That depletes the oxygen from water and suffocates the grass."

Putt said that although he was able to syringe the greens to cool them off during the day, since he couldn't relieve the moisture inside the greens, the stage was set for fungus. In his case it was basil stem root rot, an offshoot of anthracnose for which there is no good chemical control.

"You can stop it by using higher rates of Cleary 3336. But if you stay in high heat and humidity as long as we did, we found

that no chemical could help," he said.

In the case of gray leaf spot, Zontek said superintendents had a mere three-day window in which to apply Daconil. "If you did, you got good results. But if you didn't, it was pretty dramatic in how much you lost."

Exactly how are superintendents overcoming the problems?

Even Pierson's good intentions worked against him. Having begun a project to convert to bentgrass fairways, he had just aerified on July 28 and overseeded using some plant growth regulators. The drought — coupled with the fact Wilmington CC relies on runoff and a couple of small wells for water — meant terminal turf.

Putt double-verticut and aerified Chester Valley's greens and incorporated SR1020 and Pennncross bentgrass.

"It's not a bentgrass conversion but a re-establishment," Putt said. "We wanted to take full advantage of when *poa* was at its weakest point."

Short of rebuilding, he plans to deep-drill to 10 inches and fill. "If we do that twice a year for two years it will help," he said.

Latshaw reseeded with a bentgrass blend of Providence, Crenshaw, L-93, Southshore and a little Pennlinks.

"It will be survival of the fittest," he said. "We have some greens shaded, some in full sun, some that don't drain well..."

Brutal conditions across the country

In many places across the country, the weather elements were savage. For instance, by mid-September:

- In Delaware, "water police" were checking neighborhoods ensuring that people held to water restrictions put in place beginning Sept. 13. "The state was very understanding and reasonable," said Dan Pierson of Wilmington (Del.) Country Club, who had feared the worst. "Courses are limited to watering between 5 and 8 a.m., greens and tees only. But we can use the automated irrigation systems for delivery."

- Delaware surpassed the 50-year drought stage and may soon reach a 100-year drought. "We were 7 inches above normal rainfall in mid-May," Pierson said, "and now we're 12-1/2 inches under."

- Philadelphia marked nearly 50 days exceeding 90 degrees, including a record 27 in a row. "We have broken every record in Philly," said Paul B. Latshaw of Merion Golf Club. "Of the last five years, four have been the hottest in the history of Philadelphia. This year was the hottest and the worst drought on the record books."

- August was the driest month on record in many parts of Pennsylvania.

- Data from 1985 to 1995 shows Minnesota had the hottest August in the last 10 years, the hottest July since 1989 and the hottest June since 1991.

- Just 7/10 of an inch of rain was measured from the first of June to mid-September at Waterville (Maine) Country Club. "Business is great. The golf course has had it," said superintendent Kyle Evans.

- "We had 15 consecutive days where we set record highs for heat and humidity," said Kirby Putt of Chester Valley Golf Club in Malvern, Pa. "It's the fourth-worst drought in 101 years."

- Columbus, Ohio, is 12 inches over normal in rainfall — normal being 36 inches.

Hot Spots?

Stop wasting labor handwatering! Wet Hot Spots FAST with the

WETTING FORK

(U.S. Patent #5,398,445)

The Wetting Fork...

- Wets hydrophobic spots in 10 seconds or less
- Is made of lightweight but durable aluminum
- Has new improved stainless steel tines that can be used to inject fertilizers, fungicides and insecticides or wetting agents
- Helps control Fairy Ring
- Saves handwatering cost by wetting hydrophobic dry spots quickly and efficiently
- Reduces wetting agent use

Available Through Professional Turf Distributors

Ask for a free demonstration!

For your nearest Distributor, call:
PRECISION TOOL PRODUCTS CO. 1-800-253-2112
or fax 313-429-3985



TURF GRASS SOLUTIONS

PROBLEM:

You like to overseed with Annual, but need something darker & finer?

SOLUTION:

Developed especially for winter overseeding!



Frog Hair is a product of

TURF MERCHANTS

33390 TANGENT LOOP
TANGENT, OREGON 97389
PHONE (503) 926-8649
FAX (503) 926-4436
OUTSIDE OREGON 800-421-1735

Stottern, Suny and others in super ranks move on to new posts

MESQUITE, Nev. — **Riley Stottern** has been named superintendent at The Players Club, the Cal Olson design now under construction here. Stottern, who came to the new projects from Shadow Creek Golf Club in Las Vegas, served on the Golf Course Superintendents Association of America board of directors from 1981 to 1988, and was president in 1986. He is a member of the U.S. Golf Association Green Section Committee.

Arman Suny, former superintendent at Castle Pines Golf Club in Castle Rock, Colo., has succeeded Stottern at Shadow Creek. Suny has been an agronomic consultant the past few years.

NEWPORT COAST, Calif. — **Donald Hoos** has been named superintendent at Pelican Hill Golf Club, an upscale daily-fee resort club featuring two Tom Fazio-designed courses owned by The Irvine Co. and operated by Western Golf Properties, Inc. Hoos was superintendent at Ironwood Country Club in Palm Desert, and before that worked as director of agronomy for Landmark Land and Management Cos. in La Quinta, responsible for 26 golf courses. He also formerly was director of the Western Region for the U.S. Golf Association Green Section.

KIAWAH ISLAND, S.C. — **Bob Drake** has been named superintendent at The River course at Kiawah Island, a Tom Fazio-design that is the first private golf course to be built at the 10,000-acre residential resort island near Charleston.

Drake, 39 and a native of Elwood, Ind., came to Kiawah from south Florida, where he has worked as a sales representative for a liquid fertilizer manufacturer and supplier for the last two years. Prior to that, he spent more than three years as superintendent at Weston Hills Country Club in Fort Lauderdale, one of three courses Drake has grown in since beginning his career as a superintendent in 1982 at Boca-Delray Country Club in Delray Beach, Fla.

POMPANO BEACH, Fla. — Palm-Aire Country Club has welcomed **Ray Viera** as director of golf course maintenance for its five courses. Viera has 19 years experience. He is a former assistant superintendent at Shinnecock Hills Golf Club in Southampton, N.Y., and helped prepare that track for the 1995 U.S. Open.

BRANSTON, Mo. — **Jim Pyle**, formerly of Grove Park Golf Club in Great Bend, Kan., has been named superintendent at Ledgestone Country Club here.

HUTCHINSON, KAN. —

Former Fort Scott Country Club superintendent **Bill Townsend** has assumed that post at Willowbrook here. He was succeeded at Fort Scott by Mike Page.

DACULA, Ga. — Former Atlanta Athletic Club head superintendent **Mike Crawford**, has taken the reins at Hamilton Mill Golf Club here.

MYRTLE BEACH, S.C. —

David Kingsland has been named head golf course superintendent at Wicked Stick Golf Links here. Kingsland moved to Wicked Stick from DeBordieu Colony in Georgetown, S.C., where he served as assistant superintendent. Clyde Johnston designed the newly opened Wicked Stick with the help of player consultant John Daly.

KENNESAW, Ga. — **Jimmy Geter** has left Stonebridge Golf

Club in Rome to take the position of superintendent at Marietta Country Club here.

JACKSONVILLE, Fla. — Queen's Harbour Corp., the Club Corp. International affiliate which owns and operates The Royal Golf Course at Queen's Harbour Yacht & Country Club, has named **James Lehman** golf course superintendent. Lehman previously served as head superintendent at Haile

WHERE THEY'RE GOING

Plantation in Gainesville.

ROSWELL, Ga. — Brookfield Golf and Country Club here has hired **Ricky Campbell** as head superintendent. He is replaced at Atlanta International Golf and Country Club by Gary Gilliland, formerly of Gold Kist.



THER

PREEMERGENCE TURF HERBICIDES

Evaluating preemergence turf herbicides can be like comparing apples and oranges. True, all of them control weeds. (To some degree, at least.) But a closer look reveals big differences. When you consider all the products on the market, you'll find:

- A lot of them focus on low price.
- That's usually because they don't have much else to offer.

Mountains



ROCKY MT. CONCLAVE SET

FORT COLLINS, Colo. — The 42nd annual Rocky Mountain Turf Conference, to be held Dec.

6-8, will provide additional research funds for Colorado State University.

Last year's Turf Conference provided funding for the RM Turfgrass Research Foundation which awarded \$25,000 in research grants.

Since 1988 the Rocky Mountain Turfgrass Research Foundation has provided research grants to Colorado State University professors in excess of \$184,000. The 1995 grants of \$25,000 were awarded to four professors.

Dr. Tony Koski will use his

grant for research on "Changes in the composition of Kentucky Bluegrass/Perennial Ryegrass, and Poa supina mixtures during establishment and with simulated traffic."

Also, "High-Altitude Perennial Ryegrass Variety trials"; Quality, drought resistance, root production, and disease occurrence on Kentucky Bluegrass as affected by irrigation frequency/timing, fertilizer type/amount, and mowing height."

Funds will also be used for maintenance and equipment at the turf facility.

Dr. Whitney Cranshaw will use his grant for completion of his insect publication as well as education materials, periodicals and travel.

Dr. Harrison Hughes' grant will be used to complete salt-tolerant buffalograss lines isolated in vitro filed evaluation and hydroponic evaluation. The grant to Dr. Bill Brown will be utilized to support his diagnostic laboratory.

The primary funding for the foundation is derived from the Annual Turf Conference held each December in Denver.

Northeast

DIAL-AN-UPDATE

Information on cultural and pest activity in Massachusetts is a phone call away, thanks to Landscape Message, a service from the University of Massachusetts Extension Service.

Calling 800-226-4476 (4IPM), green industry professionals can get information 24 hours a day. The state is divided into five sections and the information updated weekly.

The messages include pest management strategies, growing degree days correlated with plant growth activity, educational opportunities and other cultural issues.



North Central



UST ASSURANCE HUNT IN ILLINOIS

Underground storage tank (UST) owners and operators in Illinois have been scrambling to replace the Illinois Underground Storage Tank Fund as their financial assurance mechanism. Environmental Protection Agency (EPA) Region 5 officials said the Illinois UST Fund, which has more than \$30 million in unpaid claims, no longer provides UST owners with effective coverage for cleanup costs and compensation of third parties for bodily injury and property damage.

The EPA requires that the state's 12,000 UST owners have coverage to ensure that leaking tanks can be properly cleaned.

South Central



ARKANSAS READIES CONFERENCE

LITTLE ROCK, Ark. — The Arkansas Turfgrass Association will host its annual Conference and Trade Show on Monday and Tuesday, Jan. 22-23. It will be held here at the Arkansas Statehouse Convention Center and the Excelsior Hotel. For more information contact Angie McSwain at 501-663-8810, or Arkansas Turfgrass Association, Penthouse Suite, 1123 S. University, Little Rock, Ark. 72204.

S.

DIMENSION®



Dimension® turf herbicide, on the other hand, gives you real value. Dimension offers premium performance, along with extra benefits that make your job easier. Here are a few reasons why Dimension stands out from the competition:

- Dimension provides unmatched crabgrass control.
- It controls crabgrass all season long—without breakthroughs.
- Dimension also handles goosegrass, oxalis and spurge.
- Fall applications help you manage unwanted *Poa annua*, as well as crabgrass and other weeds.
- Altogether, Dimension takes care of more than 20 tough weeds.
- Dimension works before or after crabgrass appears, extending your application window.
- It's *completely non-staining*—all you see is great-looking turf.
- You can stretch the long-lasting control of Dimension *even further* with split applications.
- Dimension works at low use rates.
- It's labeled for lawn care and golf course uses.
- Dimension offers the application flexibility of sprayable EC or granular fertilizer formulations.
- You can overseed just three months after application.
- And you can always count on exceptional turf safety.

To find out more about the benefits of Dimension, see your local Rohm and Haas distributor.



Weed control beyond compare.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS FOR DIMENSION TURF HERBICIDE.



Dimension® is a registered trademark of Rohm and Haas Company. ©1995 Rohm and Haas Company T-0-147 9/95

GOLF COURSE EXPO MEANS BUSINESS

And Because it's
Sponsored by *Golf Course News*,
Golf Course Expo Means
Business for You!



THE PUBLIC-ACCESS GOLF INDUSTRY COMES TOGETHER AT GOLF COURSE EXPO, THE ONLY NATIONAL TRADE SHOW AND CONFERENCE FOR SUPERINTENDENTS, MANAGERS, OWNERS, OPERATORS AND DEVELOPERS OF PUBLIC-ACCESS GOLF FACILITIES—DAILY-FEE, SEMI-PRIVATE, RESORT, AND MUNICIPAL COURSES.

Register Today to be Part of this National Event for Public-Access Golf Facilities

Gain Insights from Keynote Sessions

Thursday, November 9 ● 9:00 a.m.



Pete, P.B., Alice, and Perry Dye

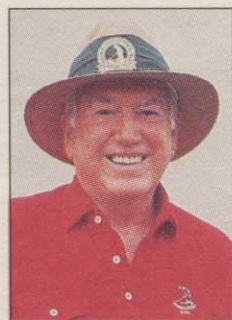
As the nation's First Family of public-access golf, the Dyes are uniquely qualified to key-note Golf Course Expo. They are right in the middle of golf's fastest growing market. During the keynote session, they will discuss the broad range of development issues in public-access golf courses.

Patriarch Pete—whose global reputation for design innovation made possible and profitable the development of high-end daily-fee courses—will discuss the future of this member-for-a-day genre, including the importance of designing and marketing courses to meet client and competitive needs. Alice Dye, slated to serve as president of the American Society of Golf Course Architects in 1996, will discuss her professional passion: sound design of

multiple tees, a consideration of paramount importance to public-access courses aiming to accommodate the full spectrum of golfing skills.

As the designer of numerous daily-fee courses in the highly competitive markets of Florida and the South Carolina coast, P.B. Dye speaks from experience on the need to identify market niches and design accordingly in areas densely populated with golf courses. After designing and building courses all over Asia-Pacific, Perry Dye has returned to these shores and turned his attention to the burgeoning municipal course market. He will speak on a subject often troubling to municipal concerns: Positioning town- and city-owned facilities to compete with privately owned competitors.

Friday, November 10 ● 9:00 a.m.



Robert Dedman Sr.

Management giant Club Corporation International, and Robert Dedman need no introduction—it has more than 260 golf courses under its direction. As founder of ClubCorp, Robert Dedman Sr. has witnessed and influenced the dramatic changes in golf course management for nearly 40 years.

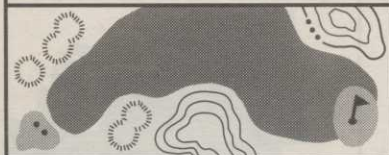
However, until 1984 ClubCorp was known primarily as an operator of private golf clubs.

It is true that for its first 25 years, ClubCorp built the largest private club client portfolio in the business. But Robert Dedman has always demonstrated the ability to identify trends and act on them before the competition. As long ago as 1979, ClubCorp realized the game was changing. Public-access golf was beginning to dominate new course development and they, under Robert Dedman, wouldn't be left behind.

When daily-fee and resort development began to outpace private projects in the 1980s, ClubCorp formed separate divisions dedicated entirely to the daily-fee and resort markets to meet the special management needs of public-access facilities. GolfCorp (founded in 1979) and Club Resorts (1984) now account for one-third of the ClubCorp course holdings.

At Golf Course Expo, Dedman will discuss how the public-access development boom (two out of every three courses are now open to the public) has affected efficient facility management. He will also offer his vision of the future, specifically how the breakneck pace of public-access development will only increase competition, making management innovation the top priority for owners and operators looking for an edge.

GOLF COURSE



EXPO

ORANGE COUNTY CONVENTION CENTER
ORLANDO, FLORIDA
NOVEMBER 9-10, 1995

A NATIONAL EXHIBITION AND CONFERENCE FOR OWNERS,
SUPERINTENDENTS, MANAGERS, AND DEVELOPERS OF
PUBLIC-ACCESS GOLF FACILITIES

SPONSORED BY

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

Join these exhibitors at the Expo and learn what's new, discover products and services to help you, and evaluate vendors of leading companies and organizations including:

Advanced Drainage Systems, Inc. ● A.E. Klawitter & Assoc. ● AIMCOR - PROFILE ● Amer. Soc. of Golf Course Architects ● Applied Power Products, Inc. ● Aquagenix, Inc. ● Arbor Care ● Burns Golf Design ● Classic Golf Group ● Club Car ● Club Managers Association ● Continental Bridge ● Corbin Baled Pine Straw, Inc. ● Data Transmission Network ● Deere & Company ● Dura Tech Industries Int'l ● E-Z-GO / Textron ● ELL Systems and Software, Inc. ● Emrex, Inc. ● EnWood Structures ● Flowtronex/PSI ● Fox Lake Construction, Inc. ● Golf Associates Scorecard Company ● Golf Course Builders Association of America ● *Golf Course News* ● Golf Property Analysts ● Golf Specialties ● Golf Ventures, Inc. ● Greg Norman Golf Design ● Greyrock Capital Group ● Harrington Corporation ● Homelite ● Horizon Golf ● Jacobsen Div. of Textron Inc. ● John Deere Credit ● Keystone Retaining Wall Systems ● Lofts Seed, Inc. ● Millcreek ● Milorganite ● National Golf Course Owners Association ● National Golf Foundation ● North American Golf ● Paver Systems, Inc. ● Polecat Industries, Inc. ● Range Master ● Ransomes - America ● Resource Network ● Rollin Sod ● SGD Company ● Sherman Pole ● Simply Products ● Smithco, Inc. ● Southeastern Presentations, Inc. ● Spraying Systems Co. ● Standard Sand ● Tee Time Reservations ● Terracare Products Co., Inc. ● Textron Financial Corporation ● The Resource Network, Inc. ● Tour Golf Yardage Products ● Turf Diagnostics & Design, Inc. ● TWC Distributors Inc. ● Ultra Tool Co, In. ● United States Golf Association ● Vectec, Inc. ● Vigoro Industries ● Yamaha Motor Corp. ● York Bridge Concepts ● Zaun Equipment / The Toro Company ● Zebra Cool Shade



Shop Talks

Exhibit hall and conference attendees will be able to attend Shop Talks free of charge, as part of the Expo experience. During these vendor-sponsored sessions—right on the show floor—suppliers will showcase solutions, feature their products and services, and address critical industry trends and issues.

These sessions give you a chance to hear in-depth discussions from vendors on the use of their products. Ask the questions you need answered and benefit from the interaction with other Expo attendees when you attend these dynamic information sessions.

Conference At A Glance

Discover New Approaches and Confirm Current Ones by Attending the Multi-tracked Conference Program

In the crowded public-access marketplace, maintaining quality conditions on your course in the face of high traffic—at a reasonable cost—is even more important. Marketing your course takes on added significance. Efficient management becomes an absolute must. The conference offers easy-to-adopt ideas that really work.

THURSDAY, NOVEMBER 9				FRIDAY, NOVEMBER 10			
9:00 a.m.	Keynote Sessions: Pete, Alice, Perry and P.B. Dye			9:00 a.m.	Keynote Sessions: Robert Dedman Sr., Founder and Chairman of ClubCorp		
10:00 a.m.-5:00 p.m.	Exhibits • Shop Talks			10:00 a.m.-4:00 p.m.	Exhibits • Shop Talks		
	Maintenance Track	Management & Marketing	Development Track		Maintenance Track	Management & Marketing	Development Track
10:15 a.m.-11:15 a.m.	Maintaining Play During Renovation	Group Marketing	The Value And Trends In Golf Learning Centers	10:15 a.m.-11:15 a.m.	Environmental Common Sense:	Safety In The Club House And On The Golf Course	Importance Of Planning Your Golf Project
12:30 p.m.-1:30 p.m.	Savvy Tips From The Frugal Super	Tee Time Reservations: Yield Management Strategies	The Current Environment Of Environmental Permitting	12:30 p.m.-1:30 p.m.	Environmentally Sensitive Management Strategies	Merchandising: Competing With Off-Site Wholesalers	Funding Methodology: Public Sector Options And Private Sector Options
2:30 p.m.-4:00 p.m.	GENERAL SESSION: Profit Through Improvement: Upgrading Your Golf Course To Compete			3:00 p.m.-4:00 p.m.	Best Management Practices for Today's Golf Courses	Managing the Revenue Centers: Food & Beverage And Range for Profit	Public/Private Partnership: A Case Study In A Joint Venture
4:00 p.m.-5:00 p.m.	Networking Party on the Show Floor			See You For Golf Course Expo '96 • November 14 & 15			

Golf Course Expo is for:

GOLF COURSE SUPERINTENDENTS • COURSE OWNERS • COURSE MANAGERS • OPERATORS • ASSISTANT SUPERINTENDENTS • CEOs • ASSISTANT GOLF PROS • MANAGERS OF GOLF SERVICES • BUSINESS MANAGERS • BUILDERS • COOs • HEAD PROFESSIONALS • CHAIRMEN OF THE BOARD • DIRECTORS OF PARKS AND RECREATION • GOLF COURSE MANAGERS • ARCHITECTS • CORPORATE PRESIDENTS • CITY ADMINISTRATORS • DIRECTORS OF CLUB OPERATIONS • COURSE MANAGERS • DIRECTORS OF GOLF • EXECUTIVE DIRECTORS • GENERAL MANAGERS • GREEN COMMITTEE CHAIRMEN • ASSISTANT CITY MANAGERS

Bring the Management Team

Golf Course Expo is a must-attend for superintendents, managers, owners, operators, general managers, golf administrators, directors of parks and recreation, builders, architects, and developers. This is a great chance for everyone at your course who makes buying decisions to find key products and services that will help your facility operate more effectively and efficiently.

Orlando—America's Favorite City

Golf Course Expo will be held at the Orange County Convention Center, a world-class convention facility conveniently located on International Drive in Orlando, Florida. The state-of-the-art complex offers easy access, ample parking, and fully-equipped conference facilities. It's an economical and easily accessible location—and one of America's favorite destinations.

Only attending one show this year?

"This was a very worthwhile experience. It's always great to get people together who are in the same business."
— Craig Immel, Director of Golf, Aberdeen Golf Club, Cleveland, OH

"Unlike [other major golf] conventions I've attended, Golf Course Expo hits the mark by approaching the entire operation as a coordinated effort. An enjoyable and profitable session. I'll be there next year!"
— Otto Kanney, General Manager, River Ridge Golf Course, Oxnard, CA

"Very interesting information. Being new in the business, this is very informative and interesting."
— Mark Clark, Food and Beverage Manager, Sandy Ridge Golf Course, Midland, MI



THIS is the one! (Ask any past attendee.)

Two Days—Two Ways to Attend the Expo. Join us in Orlando November 9 and 10

Free VIP Pass

Compliments of *Golf Course News*, the VIP pass is your ticket to all vendor exhibits and displays, shop talks, keynotes, and special events. Mail or fax this form by October 27 and we'll mail your VIP Badge to you before the show.

Full Conference participation

The full conference costs \$295 and includes access to all exhibits and displays—plus attendance at our two-day multi-tracked conference. Participants also receive a wealth of valuable take-back to the office materials. Check the box to receive complete conference information and a registration form.

Free VIP Pass—Registration Form

Compliments of: *Golf Course News*

- 1 My primary title is: (check one only)**
- ☐ A. Golf Course Superintendent
 - ☐ K. Owner/CEO
 - ☐ B. General Manager
 - ☐ C. Director of Golf/Head Pro
 - ☐ D. Club President
 - ☐ E. Green Chairman/Dir. Grounds
 - ☐ F. Assistant Superintendent
 - ☐ G. Builder/Developer
 - ☐ H. Architect/Engineer
 - ☐ I. Research Professional
 - ☐ J. Others allied to field (please specify)
- 2 My primary business is: (check one only)**
- ☐ 1. Public Golf Course
 - ☐ 3. Municipal/County/State/Military Golf Course
 - ☐ 4. Hotel/Resort Course
 - ☐ 11. Semi-Private Course
 - ☐ 2. Private
 - ☐ 10. Other Golf Course: (please specify)
- ☐ 5. Golf Course Architect
- ☐ 6. Golf Course Developer
- ☐ 7. Golf Course Builder
- ☐ 9. Supplier/Sales Rep
- ☐ 8. Other (please specify)

- 3 Total annual maintenance budget:**
- ☐ 1. Under \$50,000
 - ☐ 2. \$50,000-99,999
 - ☐ 3. \$100,000-249,999
 - ☐ 4. \$250,000-499,999
 - ☐ 5. \$500,000-749,999
 - ☐ 6. \$750,000-1,000,000
 - ☐ 7. Over \$1,000,000
- 4 Annual capital expenditure:**
- ☐ A. Under \$100,000
 - ☐ B. \$100,000 - 249,999
 - ☐ C. \$250,000 - 500,000
 - ☐ D. Over \$500,000
- 5 Purchasing involvement:**
- ☐ 1. Recommend equipment for purchase
 - ☐ 2. Specify equipment for purchase
 - ☐ 3. Approve equipment for purchase
- 6 I plan to purchase:**
- ☐ A. Immediately
 - ☐ B. Within six months
 - ☐ C. Six months to 1 year
 - ☐ D. Over 1 year

You must be 18 years of age to attend

Save \$20! Send for your FREE VIP Pass to Golf Course Expo today. Please complete the information below and mail it to Golf Course Expo, Expo Registration, P.O. Box 805, Westwood MA 02090. Or Fax it to 617-329-8090. This form may be photocopied for additional registrations—why not bring the whole team and save them \$20. too? To avoid long lines at the show, this form should be received by **October 27**. After that date, just complete it and bring it to the show with you. Badges will be mailed two weeks before the show.

- ☐ Please send me information on the Conference program (bb) ☐ My company is interested in purchasing exhibitor space. Rush me details. (cc)

PLEASE PRINT

Name: _____
 Nickname: _____ Title: _____
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Country: _____
 Telephone: _____ FAX: _____



First University Club opens

Continued from page 1

games, said partner Carl Espy. "Our premise was that, if we built an athletic facility in a community for the fans to use, they would use it."

"We consider it a resort destination. For example, people come to Columbia as an end destination. And if you can capitalize on that influx of people, that's great."

A partnership of Espy, The Robinson Co. President Ed Robinson and Central Florida

Turf (CFT) principals Jeff Harstine and Rodney Davis, the firm's mission is to involve the various university athletic booster organizations in developing a string of University Clubs.

The affiliation is mutually advantageous. Alumni and others can join the athletic support group at a university and pay a monthly dues to belong to the private University Club. Meanwhile, the club gives a percentage of its proceeds to the university athletic program

and makes the golf course available free to the golf teams.

"It's got to be a plus for both The University Club and the university," said Davis. "There is nothing that brings the university people together for functions and get-togethers. This brings them together on a golf course. They can wheel and deal on business and university matters, or they can just reminisce."

Here, the company approached the alumni-laden Gamecock Club, which has more than 12,000 members paying a yearly minimum contribution of \$150 — and some

pay many thousands — to support the athletic program. The result is a private club on 500 acres of land that will ultimately include 27 holes of championship-caliber golf, a nine-hole short course, 30-acre practice area, swimming and tennis facilities and resort-style housing.

"We will probably have one of the few golf teams [USC] in the country that is operating in a profit mode because of our financial obligations to the athletic department," Espy said. "Plus, we've generated 600 new members for the Gamecock Club."

He said The University Club

at USC has "created a dues scenario that puts us 40 to 50 percent below the market in terms of monthly dues."

Memberships are set up in geographic categories, with quotas established for four-county Metro Memberships and the statewide Regional Memberships, but no limit on memberships from outside South Carolina. "The chance of everyone from California coming in at the same time is remote," Espy reasoned.

As partners in The University Club, Davis and Harstine have first option to hire Central Florida Turf to building each course, as it did South Carolina's. The design work will vary. CFT designed the course here, but architect and LSU alumni Jim Lipe will design that track.

The University Club's agreement at LSU is with Tiger Athletic Foundation, and Espy has contacted several other organizations supporting universities in the Southeastern Conference. While not yet pursuing projects at schools outside the conference, the company will speak with other interested parties that approach it.

"Once one course gets in the ground, it makes all the difference in the world," Davis said. "We'll have something for [prospective clients] to look at."

That will also influence financing, Espy said. Funding has come with difficulty — from a bank and a few limited partners, he said.

Reluctant bankers, he said "are anxious now because they understand the concept better and see this as a real benefit since it reaches so many families."

"In future projects, we'll have a bank who will be the main underwriter and they will solicit local institutions based on the experience we've had here [at USC]."

NEW

SubAir™

Developed By and For the Turfgrass Manager



Without SubAir

One Year With SubAir

Double Your Green's Root Mass!

SubAir's full, rich oxygenation, temperature moderation and water removal system produces roots that are whiter, larger in diameter with easily twice the mass of roots maintained by conventional methods. In fact, the bottom profile of the root system virtually "re-explodes" with new growth.

SubAir's healthier, more resilient turfgrass requires less pesticides, fertilizer and labor.

SubAir is an environmentally friendly system that uses your USGA-Spec. greens' existing drainage piping to either pump air directly to the roots, or remove excess water, salt and unwanted gases.

SubAir™ - created by Marsh Benson - is available in either gas or electric portable models, or can be installed below-ground, quietly improving the turf above.

SubAir Credit provides financing to qualified customers for SubAir™ products and all related golf course construction.

Call (800)-333-2071

SPECIAL
SubAir Portable
BUY NOW
No Payments until
June '96
Call Today!

SubAir™

Developed By and For the Turfgrass Manager

SubAir, Inc., PO Box 910
7-13 Front St., Vernon, NY 13476

A pending patent application covering the SubAir™ system has recently been allowed by the U.S. Patent Office.

Patent #5,433,759
Other patents pending.



Portable SubAir
Starting at \$3,450.



Below Ground SubAir

View from the Rough

Continued from page 3

people with some positive information about golf and accurate quotes they can use at cocktail parties, for instance," Klemme said. "We'd like to see superintendents make it available to the members at their club or have developers give it to city councils when they begin discussing plans for new golf developments."

Klemme said his favorite among the 200 photographs is the one that graces the cover. It is a shot of an elk standing in the middle of a fairway as the sun rises at Banff Springs in Alberta, Canada.

"It just seems to sum up the whole deal," Klemme said. "It has wildlife, trees, mountains and golf."

A *View from the Rough* will be available in late October for \$39.95 from Sleeping Bear Press, 121 South Main Street, PO Box 20, Chelsea, MI 48118, telephone 800-487-2323 or from the Golf Course Superintendents Association of America, Technical Information Services Department, 1421 Research Park Drive, Lawrence, KS 66049, telephone 800-472-7878.

BRIEFS



HILLS BREAKS GROUND IN MICH.

SOUTH HAVEN, Mich. — HawksHead Golf Club, an 18-hole Arthur Hills design here, has broken ground. The upscale daily-reservation course will play through a sandy, treeless landscape replete with scrub growth and unkempt dunes. HawksHead is scheduled to open next summer.

ZOELLER, JOHNSTON COLLABORATE

FORT WAYNE, Ind. — Chestnut Hills, an upscale daily-fee golf course here, has opened as the fourth design collaboration between course architect Clyde Johnston and design consultant Fuzzy Zoeller. The par-72 course plays 6,996 yards from the back tees and tracks across creeks and through an expanse of rolling Indiana farmland. Johnston and Zoeller used native grasses to frame the golf course and integrate it with the surrounding natural landscape.



Fuzzy Zoeller

GOLFERS UNITE TO BUILD IN MAINE

BELGRADE LAKES, Maine — A group of golfers has formed a partnership and pooled \$4.5 million to build a top-level semi-private golf course here. General partner Pat Donahue, a real-estate developer from Portland, said the 18-hole track will meander over a 237-acre site in this village. Many holes on the undulating, sometimes steep, wooded site will have views of the Belgrade Lakes, he said. Plans are to get necessary permitting completed in time to begin construction in the late summer of 1996 and open the facility in 1998.

WALTER WOODS JOINS ELS

PALM DESERT, Calif. — Ernie Els and Clive Clark have appointed Walter Woods to Els Clark Design, as their specialist consultant on links-style golf courses. Woods is recognized for his expertise in this area, having looked after The Old Course at St. Andrews — as well as The New, The Jubilee and The Eden courses — for 21 years. Clark said: "Both Ernie and I have played a good deal of golf in tournaments in Scotland and we like many of the qualities offered to golfers by Scottish links. We feel that Walter Woods' experience will be a great asset to Els Clark Design."



Walter Woods

From the Golan to the Gulf, Israelis await golf

By MARK LESLIE

GADOT, Israel — From the Golan Heights to the Gulf of Aqaba, there has been only one golf course in Israel. Until now...

With expertise from the likes of South African pro-designer Gary Player and American designer-builder Perry Dye, Israelis and tourists to this country are about to have the world of golf opened up to them.

And it appears that with approval for five new golf courses from the government and support from the Jewish financial community in New York, Israeli kibbutzim looking for more profit centers may also join the picture. Already:

- In Elat — on the shores of the Gulf of Aqaba and the Jordan River — several courses are being planned as part of a destination resort area located partly in Israel and partly in Jordan. A popular tourist spot, Elat is a free-trade zone with no taxes.

- Gary Player Design Co., led by Phil Jacobs of the South African office, is designing one layout in the Elat complex, while another client is looking



The first tee at Israel's only golf course, The Caesaria Golf Club, a private 18-hole facility that opened in 1961.

for property for an inland course east of the Gaza Strip.

- Kibbutz Gadot, located just above the Sea of Galilee on the Jordan River — barely 200 to 300 yards from the original Syrian border before Israel

won the Golan Heights — has hired Dye and American golf course consultant Jim McLoughlin to work on a course as part of "a large-scale tourist project," including two vacation

Continued on page 30

It's do or Dye at Black Bear

By MARK LESLIE

EUSTIS, Fla. — Eighty-foot backdrops in central Florida? Features reminiscent of PGA West making a statement of character? A 19th "Shootout Hole" (lighted, no less) to break ties, or offer up a challenge after a round of golf? Yes, and more, says majority owner and general partner Richard Stein of his Black Bear Golf Club.

"We wanted a fun course, sort of a PGA West on the East Coast," Stein said. "And we wanted a golfers' club, not a country club. Golf alone. That's what we've got."

To get his wish, Stein hired P.B. Dye — son of PGA West architect Pete — to design the 18-hole semi-private track. Then he brought in John Reger, PGA president for North Florida, as director of golf and Dan Fore of the Medalist Club as superintendent.

The result opens for play Nov. 1 and hosts a tournament less than a week later. Golfers will be tested by sandy waste bunkers, undulating greens and dramatic fairway elevation changes on a track measuring 5,100- to 7,000 yards over five sets of tees. Dye, now part-owner, moved 500,000 cubic yards of earth to create soft rolls on the 164-acre site — a chore made easy since the former citrus grove boasts sugar sand 60 feet deep.

Two bodies of water add punch to the challenge, including a 10th hole that is encircled

Continued on page 34



P.B. Dye operates a bulldozer on his new design, Heritage Club, in Mason, Ohio.

P.B. filling his own Dye-ary

P.B. Dye, 40, is the brother of designer Perry Dye and youngest son of Pete and Alice Dye, the most famous golf course design duo on the planet. A scratch golfer, P.B. [Paul Burke] admits to learning most of what he knows about course design from his parents. He assisted Pete with highly touted Long Cove Club (1982) on Hilton Head Island, S.C., and the Honors Course (1983) in Chattanooga, Tenn. He has designed numerous courses on his own, including Black Bear Golf Club near Orlando, which will open in November, and the new nine at Urbana (Ohio) Country Club, which his grandfather originally designed in 1929.

Golf Course News: Is there



anything that distinguishes a P.B. Dye design from other courses?

P.B. Dye: I want something that is highly playable, but not necessarily easy. I was playing with a guy on one of my courses and he said, 'You know, this course has VD. It's visually disturbing.' I like that. My father and I like to visually disturb people. Our courses may look hard, but they don't really play hard. I want to make a course as hard

Continued on page 34

PGA + Fazio = Golf Club at The Reserve

By MARK LESLIE

PORT ST. LUCIE, Fla. — Fraternal twins, born together but very different in look and style. That's how Tom Fazio views the two courses he has designed here at the PGA Golf Club at The Reserve, which will become home to the pros and open to the public when it opens this winter.

The North and South courses represent "a vast difference in styles and looks," said Fazio. "I think if you took a consensus of golfers after they played the two, you'd get a split vote on which is best."

Comparisons will come soon enough. The North Course is slated to open in December and the South Course a couple of months later.

Their openings delayed at least two months by a series of drenching hurricanes and storms, the courses are "the fruition of a lifetime dream for the PGA to own a golf club our members can call their home," said PGA of America Chief Executive Officer Jim Awtrey. With a cap of \$49 set on the greens fee and car during high season, the tracks fulfill the association's mission "to make world-class golf open and affordable to the public," he added.

A learning center is also planned and a third 18-hole

Continued on page 30



EAGLE® HAS

Introducing Eagle fungicide

When it comes to maintaining healthy golf courses and long-term playability, new Eagle® soars above other systemic fungicides.

Eagle gives you unbeatable control against tough diseases, like brown patch and dollar spot. Long-lasting performance.

Low use rates. And exceptional turf safety. So you can give golfers high-quality greens.

Fits 14-day schedules

For preventive or curative control, Eagle provides great results. You'll find the best performance, though, with a 14-day protectant schedule.

Even during July and August — when temperatures and humidity rise and disease pressure is highest — Eagle doesn't quit.

Eagle offers another big advantage over other systemics...turf safety. You won't see weakened roots, leaf damage or coarse turf blades.



LANDED.

So greens always look and play their best.

Other benefits

Eagle brings good news for applicators, too. Just six tenths of an ounce per 1,000 square feet gives you all the control you need. And mixing couldn't be easier. That's because Eagle comes in

premeasured, water-soluble pouches you can toss right in the tank. There's no measuring, no mess and minimal worker exposure.

To find out more, see your local Rohm and Haas distributor. But don't wait long; Eagle is taking off fast.



For top-flight performance.

ALWAYS READ AND FOLLOW
LABEL DIRECTIONS FOR
EAGLE FUNGICIDE.

Eagle® is a registered trademark
of Rohm and Haas Company.
©Rohm and Haas Company 1995



TO-120 3/95

CIRCLE #120

Land of Bible targets golf

Continued from page 27

villages, golf school, water sports, hiking and horse-riding trails, and study centers on nature, archaeology and history.

• And another kibbutz, gifted with a beautiful piece of property west of Jerusalem, may also be interested, McLoughlin said from his McLoughlin Group offices in Plainville, N.Y.

These all join the only existing facility, Caesaria Golf Club, a private club built on the Mediterranean between Haifa and Tel Aviv in 1961.

"Clearly, there is a need," McLoughlin said. "But the five [planned] courses in Elat don't address the need for golf in Israel. Elat is to Tel Aviv, for instance, as the Florida Keys are to Boston. The Elat courses won't serve the everyday needs of the country of Israel."

A Kibbutz Gadot leader, Haim Milrad, said: "The demand for new golf courses in Israel is larger than what the government can allocate. At this time, there is no final decision as to whom the government will support."

The one course at Gadot is not enough to convince the general tourism community to add golf to its attractions, McLoughlin said. "Ninety-five percent of the Christians and Jews traveling to Israel are going for religious purposes — not to play golf," he said. "But all the tour operators could just add on golf [to their portfolios] and start attracting a wider group."

"You should be talking about three to five courses north of the line from Tel Aviv and Jerusalem," McLoughlin said. "It's what I call 'critical mass.' If there could be a course in Gadot, another at the other kibbutz and if the government or someone else would make \$500,000 available to upgrade Caesaria Golf Club and make it accessible to the public, that would be a beginning. Then, with

all the business between Tel Aviv and Jerusalem, it [golf development] would happen."

In addition to tourists, McLoughlin believes resident Israelis "would take readily to the game."

Kibbutz leaders consider Tel Aviv residents "a huge weekend market," Dye said. "The [Kibbutz Gadot area] is cooler, and is a place to get out of the city. They also have the opportunity to bring in foreigners."

The courses in Elat, which is being developed as an international resort area, should do very well, McLoughlin said. "For Europeans, there are few pure resorts to go to during the winter. Besides the Canary Islands, which are booked solid, Europeans have to go to Asia, or the United States."

Construction on the Player-designed course in Elat could begin as soon as September, said design associate Christian Robinson from Player's South African office. "We're just working on [contract] semantics," he said.

Robinson said Elat Golf Course, developed by an Israel-based company, will be a desert-style 18-hole championship-caliber track.

"It has been delayed by a mixture of money and political problems," he said. "It costs about \$3.5 million in U.S. money to build a golf course these days. And that's just the course. They have to get a hotel chain behind the project."

...

Meanwhile, Kibbutz Gadot may be indicative of other kibbutzim. Where in the 1950s there were 1,200 of the communities in Israel, today they number less than 300. Each kibbutz has to economically support itself and its families.

Kibbutz Gadot farms and operates a plastics factory, but its ruling council decided to build a 1,000-room hotel-villas complex to attract tourist money. The project hasn't started yet, but McLoughlin said he has obtained enough support from Jewish friends in New York to pay for two \$6 million courses.

Public golf in D.C.? At Augustine, yes

STAFFORD, Va. — The Washington, D.C. area's newest golf facility, Augustine Golf Club, an 18-hole Rick Jacobson-designed course, has opened for public play.

The Augustine Golf Club is the centerpiece of the Augustine community, which is under construction. The residential community will include 352 single-family homes developed by the Michael T. Rose Cos. of Laurel, Md.

Jacobson designed the golf course to blend with the character of Stafford County, and to harmonize with the area's topography and natural surroundings. The course was built by Wadsworth Golf Construction Co.

"Our firm's design philosophy favors subtlety and detail to create courses that are aesthetically pleas-

ing, playable by a diverse golfer profile and challenging," said Jacobson of his Libertyville, Ill., firm. "We were given the flexibility to design a course which blends aesthetically with the existing landscape yet is cognizant of the residential community that borders it. A win-win situation for everyone — the public golfer, the community and the developer."

The course design incorporated two five-acre man made lakes and 19 acres of wetlands to help create natural wildlife corridors linking the undisturbed open-space areas.

Superintendent Rick Owens is confident the Augustine golf course will meet criteria for the New York Audubon Society Golf Course Sanctuary program.

PGA Reserve tracks near opening

Continued from page 27

course is a possibility at the facility under Senior Director of Operations Marty Kavanaugh.

"The North Course is in a denser, forested area," Fazio said. "It has tighter driving areas because of the tree cover. From its form, shape and contour, it has quite a bit of roll and elevation change. It's more of a classic-style look in its shapes and form of bunkers."

On the other hand, the South Course is "substantially different," he said. "It's larger and wider and grander in scale. It's more of a '90s-looking course... It contains bolder, steeper slopes, and it is longer because of the bodies of water and the variety of features we put into it. Creating lake areas gave us more dirt and an opportunity to form more contours, relief and elevation change."

"We've buffered the lakes and play areas with multiple shapes and forms of bunkers — long, undulating and with more use of sand and more visual impact."

"It will look a lot harder, stronger and difficult than the North Course, but in actuality it probably won't be more than one shot per side more difficult."

What pressure is there from having, in effect, 14,000 golf professionals as a client?

"Knowing it's the PGA of America and the club pros will be coming there, obviously strength and quality is something you consider for that level of player," Fazio said. "But we always start with designing a course for the best players in the world as well as taking into account that lots of different golfers will play it..."

"I feel comfortable it will fit in with any golf course we've done."

He added that the biggest challenge was "to match the quality of what the PGA of America is all about. It's a big, quality organization, and each member is proud of it. They themselves are coming from great golf courses. We will be judged by them."

Tee & Green & In Between

Whether your challenge is a deadline, a tee, a green, a fairway, a rough, or a bunker surround, we have a blend that fits your needs.

We understand the variety of problems you face because we have spent a great deal of time listening to golf course superintendents. As a result, Tee & Green Sod offers the most complete product line



**TEE &
GREEN SOD**
— INCORPORATED —

available to the golf course industry—
even a four-foot wide washed roll!

Give us a call for information about our selection of products, and our unique harvesting and washing techniques.

- Bentgrass
- Bluegrass
- Washed sod
- Bluegrass-Ryegrass
- Bluegrass-Fine Fescue

401/789-8177 • 401/789-3895 (fax) • PO Box 418, Exeter, RI 02822

Railroad Ties for Landscaping

Highest Quality • Best Prices • National Delivery



**CROSSTIES • SWITCH TIES
BRIDGE TIMBERS**



800-769-TIES (8437)

**Midwest Railroad
Tie Sales**

GCBA A 'force' with all major builders aboard

CHAPEL HILL, N.C. — Nearly all the country's full-time golf course contractors now belong to the Golf Course Builders Association of America (GCBA), and Executive Director Phil Arnold believes that is largely due to the certification program.

"I think the association represents at least 95 percent of all the serious full-time golf course builders in the country," Arnold said. Whereas few of the firms belonged when Arnold took the reins five years ago, "now we have the lead dogs in the golf course construction industry," he said.

Arnold takes no bows for the growth, reflecting the credit to the GCBA accreditation program.

The certification program, he said, "is becoming the standard by which builders are judged, and it's becoming a requirement. Some municipalities have required that in order to bid on a project a company must be a certified golf course builder."

Of the GCBA's 149 members, 18 are U.S. builders, five foreign builders and 99 associates. Arnold said 27 companies have met all the requirements for certification for 1995. They are:

Atlantic Golf Course Construction Ltd. (Larry Brown), Fredericton, New Brunswick, Canada; G.A. Blocker Grading Contractor (Matthew Blocker), Oswego, Ill.; Brigrance Contractors, of Oxford, Miss.; Buky Golf (Bob Buky), Mt. Washington, Ky.; Central Florida Turf (Jeff Harstine), Avon Park, Fla.

Also, Paul Clute & Associates (Paul Clute), Hartland, Mich.; Daylen, Inc., of Fresno, Calif.; Dye Construction of California (Neal Iverson), Denver, Colo.; Eighteen Construction (Steve Harden), Jacksonville, Fla.; Environmental Golf (S. Gene Giannulli), Santa Ana, Calif.; Fairway Construction (Glen Gosch), Temecula, Calif.

Also, G.C.R.I. (John Salyers), Ft. Pierce, Fla.; Golf Course Construction (Glenn Caverly), New Hudson, Mich.; Golf Development Construction (Clarke Fenimore), Louisville, Ky.; Golf Works (Frank Hutchinson), Austin, Texas; Greenscape Ltd. (Dan Garson), Palo Alto, Calif.

Guettler & Sons (Philip Guettler), Ft. Pierce, Fla.; Holmes & Company of Orlando (James Holmes), Eatonton, Ga.; Kenova Construction Corporation (Gary Paumen), W. Palm Beach, Fla.; Landscapes Unlimited (Bill Kubly), Lincoln, Neb.; McDonald & Sons (John A. McDonald, Sr.) Jessup, Md.; Midwest Golf Development, of Cable, Ohio

Moore Golf (David Canavan), Culpepper, Va.; Prince Contracting

Continued on page 33

American designers still drive Asia-Pacific market

OBIHIRO, Hokkaido, Japan — After seven years of grueling permitting to meet local and federal regulations, the 36-hole Kamishihoro Kogen Golf Club is nearing completion.

"They're grassing part of the first 18 now, and the entire 36 holes should be completed by the fall of 1996 and open for play in summer of 1997," said course architect **Robert C. Walker** of Atlantic Beach, Fla.

The 36-hole resort course is being developed by **Seibu Co.**, owner of the Prince Hotel chain. "It is more of a stand-alone facility than others Seibu has done," Walker said.

The Kamishihoro Kogen Golf Club project was signed back in 1987, but it took seven years to obtain the permits for construction, Walker said. Causing major difficulty in routing the courses is a regulation that requires a 20-meter-wide corridor of native vegetation and buffers between golf holes as well as property lines.

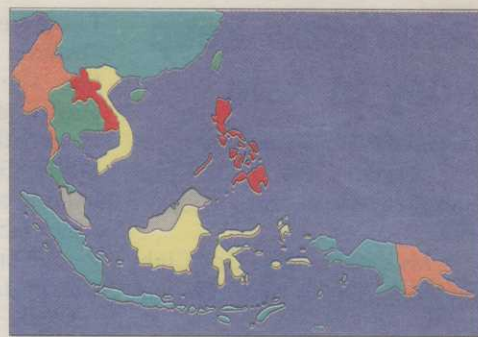
SILANG, the Philippines — Bernhard Langer and Fred Couples have agreed

to design their first signature golf course projects in The Philippines. The German and American stars will each design a course here at a new 36-hole residential community in this Manila suburb, under agreements with AFP Retirement and Separation Benefits System of the Philippines (AFPRSBS).

International Management Design (IMD), a division of Cleveland-based International Management Group, will provide land-use planning, technical and design support for Couples and Langer, as well as general marketing support.

• • •
HANOI, Vietnam — **The Daewoo Corp.** continues to emerge as one of this country's most influential foreign investors, and it has paid dividends in the development of Van Tri Marsh Golf Resort.

Premier Kiet decreed in July that rice fields could no longer be converted to non-agricultural use. Shortly thereafter, the Korean conglomerate Daewoo received a controversial exemption to build



the 18-hole Van Tri Marsh just outside the city limits.

The course design and routing have been finalized, according to architect **Gary Roger Baird** of Nashville, Tenn. Construction should begin sometime in October, as the rainy season subsides. The group is pointing toward a 1997 opening.

With US\$500 million already committed to Vietnam, Daewoo is the country's largest South Korean investor, according to Business News Indochina. Likewise, Daewoo has committed more funds to Vietnam than any other country in Southeast Asia. Yet the Vietnamese are protective of their rice production, and some object to paddies-turned-golf courses citing the expense and the game's appeal to largely foreign playing populations.

"I'm hopeful that some of the projects we've created will improve the environmental situations," said Baird, who has collaborated with Daewoo on other projects in China and South Korea. "It was basically very flat, marshy land. Some of the paddies we've dealt with were pretty stagnant."

"Many times these big corporations do their work, reap their profit and leave. The people at Daewoo are very, very concerned that their efforts, their investments have a spill down effect to the lower-income in Vietnam."

• • •
TOKYO — **Dye Designs International Inc.** has been extremely active in the past year on the Japanese golf scene.

The Denver, Colo., USA-based firm has opened five courses in the past 12 months, according to **O'Brien McGarey**, Dye Designs director of business development. Two are in Tokyo, two in Hokkaido and one in the Nagoya area of Mie Prefecture.

Following are the clubs, their locations and opening dates:

Continued on next page



TPC GOES INTERNATIONAL

The International Tournament Players Club in Mito, Ibaraki Prefecture, Japan, designed by then-PGA Tour architect Bobby Weed, is ready for play and will be opened next May. It contains all cool-season grasses, which is unique for central Japan. Many of its holes resemble Pine Valley in New Jersey.

111-year-old Ryan Central a charter member

CHAPEL HILL, N.C. — The Golf Course Builders Association of America (GCBA), headquartered here, has welcomed Ryan Inc. Central as a new Charter Member.

Charter members of the GCBA are those members who have a special interest in the continuing success and growth of the GCBA, and who have expressed their support by making a one-time minimum contribution of \$5,000 above and beyond their annual membership dues.

A fourth-generation family construction company, Ryan Inc. Central is an outgrowth of an earth-moving company founded by Patrick W. Ryan in 1884.

Twenty-five years ago, the company expanded into golf course construction.

Today, Ryan Inc. Central performs all aspects of golf course construction work, from initial clearing and mass excavation, through irrigation and grassing.

Headed up by President Patrick Ryan (great-great-grandson of the original founder) and now based in Janesville, Wis., Ryan Inc. Central also has branch offices in Elgin, Ill. and Ijamsville, Md.

Adam Ryan, vice president based in Elgin, lists site development for subdivisions, landfills, and golf courses as three common examples of the many types of projects that Ryan Inc. takes on.

For further information about the GCBA, contact: Phil Arnold, executive vice president, GCBA, 920 Airport Road, Suite 210, Chapel Hill, NC 27514, 919-942-8922, Fax: 919-942-6955.

Nelson Wright Haworth promote 2 in Pacific Rim

HONOLULU, Hawaii — The golf course architectural design firm Nelson • Wright • Haworth (NWH) has promoted project managers Mark Miller and Brett Mogg to the positions of vice president and director, respectively.

Miller, who has been with NWH in Honolulu since 1989 as a project manager, was responsible for the soon-to-open Royal Kunia Country Club on Oahu.

His most recent project is the newly opened Shenzhen Xili Golf Course (a mere 60-minute drive from the center of Hong Kong), the firm's first course of many scheduled to open in China.

Mogg, who divides his time between Singapore and Sydney, Australia, joined NWH in 1989 as a project manager.

Mogg's responsibilities include the 18-hole Guangzhou International Country Club in Guangzhou, China, which is scheduled to open in early 1996.

Americans keep busy in Asia

Continued from previous page

- Sapporo Bay Golf Club; Sapporo, Hokkaido; August 1995.
- Musashino Mori Golf Club; Saitama, Tokyo area; August 1995.
- Alpen Bibai Golf Club; Bibai, Hokkaido; June 1995.
- Kumozugawa Course; Mie Prefecture, Nagoya area; May 1995.
- Maple Point Golf Club; Yamanashi Prefecture; November 1994.

McGarey was particularly intrigued by Kumozugawa, which translates to Third Place Club. The name, he said, refers to a golf club's position in a person's life.

"First is family, second is business and third is the club," McGarey said.

McGarey said the company is involved, to varying degrees, with roughly 18 proposed projects throughout the Asia-Pacific region. Of those, probably six to eight will eventually be built, he added.

...

ZHUHAI, China — The golf course construction explosion on mainland China continues — in no small part with the help of Saratoga, Calif.-based **J. Michael Poellot Golf Design Group (JMP)**.

The next JMP course to be unveiled in China is Lakewood Golf and Country Club near Zhuhai, easily accessible from Hong Kong and less than 30 minutes from Macau.

Also under construction are Evergreen Golf and Country Club north of Shanghai and Long Island Golf and Country Club at Chang An, 30 minutes north of Shenzhen in Dongguan Province.

Yantai Golf and Country Club in Yantai, overlooking the Yellow Sea, will begin construction in early 1996, and design plans are being drawn for Beijing Golf Club — the oldest course in the Beijing area plans to expand to 36 holes.

Meanwhile, the first — and last — "Royal" country club in Cambodia will be JMP-designed Royal Cambodia Country Club in the capital city of Phnom Penh. A joint venture between a Singaporean and Cambodian development consortium, it started construction during the summer.

...

SAIPAN — Rounding out a compelling array of golf courses on this little island, a Bay Area development company has hired architect **Jay Morrish** of Flower Mound, Texas, to design a golf course here that will boast 12 holes on the ocean.

"This property has four miles of beach front as pretty or prettier than Pebble Beach," said Morrish. "In some spots, it drops 150 feet to ocean."

Saipan already sports courses designed by **Greg Norman** and

Larry Nelson, while another by **Graham Marsh** nears completion. The developer, **Haas and Haynie** of San Francisco, expects to eventually build 36 holes, Morrish said, adding that a new hotel is also anticipated for the resort facility. The time frame to get the project approved and under construction is unknown.

Of the 12 holes on the ocean, Morrish said: "That's probably too much of a good thing. But I figure if a golfer flies all that way from Japan or Hawaii, you might as well give them a chance."

...

HIROSHIMA PREFECTURE,

Japan — What is believed to be the first daily-fee course in the Hiroshima region is scheduled to open next year.

The US\$65 million Hiroshima Airport Golf Course was originally slated to be a private club serving the US\$300 million airport village complex. But the prefectural government recently took over the project when private investors withdrew.

Hiroshima general assembly speaker Toshihiro Hiyama and supporters decided the course should become the first daily-fee operation in the area, ide-

ally providing a model for others to follow. He estimates green fees will be approximately US\$300.

The course was roughly half finished when the government asked American architect **Lester George** of Richmond, Va., to visit the site in June and make recommendations on the design, playability, conceptual philosophy, operational concept, structures and marketing. This will be George's first international course.

"Over 50 percent of the 3 million cubic yards of earth moving was complete when I arrived,"

George said. "I was amazed at the quality of the work on such a rugged site."

George provided the government with a report of his findings and recommended changes. He returned to Hiroshima in mid-August with several consultants to continue work on the project. Among them were **Bill Atwood** of William Harrison Atwood, Architects in Charlottesville, Va., who will be clubhouse architect and **John Mason** of Fairway Management Ltd., in Hamilton, Bermuda, who will act as the operations and management consultant.

LOOK OUT FOR NUM



PENDULUM[®] AMDRO[®] AND IMAGE[®] THE PROFESSIONAL'S CHOICE FOR TOP TURF PERFORMANCE.

Savvy professionals rely on PENDULUM, AMDRO and IMAGE for reliable, cost effective control of unwanted hazards like problem weeds and fire ants.

And their confidence is repaid with courses that are noticeably better looking and more comfortable to play.

It's why they're the treatments of choice on the market today.

PENDULUM Herbicide with pendimethalin. Now for turf!

PENDULUM provides proven turfgrass tolerance and excellent preemergent control of crabgrass, goosegrass and other troublesome weeds. And with its superior season-long performance, people notice the difference when PENDULUM swings into action.

And although gentle enough for over-the-top application to more than 260 labeled ornamentals, 45 broadleaf and grassy weeds don't stand a chance against PENDULUM.

AMDRO Fire Ant Bait: Kills the Queen. Kills the Mound.

Fire ants may be annoying and dangerous, but they're not all that smart. That's why it's easy for AMDRO to fool worker ants into thinking it is food.

Golf course builders gain certification through GCBAA

Continued from page 31

Co. (Gary Wieseler), Palmetto, Fla.; Rausch Golf (Dick Rausch), Brownwood, Texas; Ryan Inc. Central, of Janesville, Wis.; and Wadsworth Golf Construction Co. (Paul Eldridge), Plainfield, Ill.

In order to be certified, a company must establish that it has been in the golf course construction business for at least five years, and been the pri-

mary contractor on three complete golf course construction projects or the equivalent in the last five years.

It must also provide references from a financial institution, credit agency, insurance company, bonding company, and individuals in five of the following seven categories: owner/developer, golf course architect, engineer, irrigation designer, golf course superin-

tendent, municipality, or certified golf course builder.

The final steps in the certification process are a 100-question examination and an interview by the GCBAA Certification Committee. Certification is an ongoing process and companies are recertified every year.

The GCBAA is a non-profit trade organization founded in 1970, and composed of the

world's foremost golf course builders and leading suppliers to the golf course construction industry. Its members represent all segments of the golf course construction industry.

For more information on the GCBAA or its certification program, contact Susan Monk, News Editor, GCBAA, 920 Airport Road, Ste. 210, Chapel Hill, N.C. 27514; 919-942-8922.

NGF officials hope InfoPacs make big impact on projects

JUPITER, Fla. — The National Golf Foundation (NGF) has introduced a new series of publications called InfoPacs, designed to provide the latest published information on a variety of important topics of interest to the golf industry.

InfoPacs are full-text collections of articles, reports and studies compiled by the NGF Library/Information Center. The first series of 25 InfoPacs was selected on the basis of the most popular of topics and on how much has been written about them.

They include such titles as: Slow Play Solutions, Computerizing Your Golf Facility, Promoting Your Golf Facility, Tournaments & Special Events, Increasing Your Pro Shop's Bottom Line, Clubhouse Design and Renovation, Accommodating Disabled Golfers, Golf Course Finance and Re-Finance and Marketing to Women.

For a complete list of InfoPacs or to place an order for an InfoPac, contact the Information Services Department of the NGF at 800-733-6006.

NGF brings guide books on golf ranges up to date

JUPITER, Fla. — The National Golf Foundation (NGF) has completed work on the second edition of its best-selling guidebook for golf course operators, investors and others interested in developing a commercial golf range.

Entitled "How To Plan, Build and Operate A Successful Golf Range," the 150-page book has twice the content material of the Foundation's original range book that was written with the help of more than 20 subject experts.

Some 6,000 copies of this edition have been sold since its introduction in 1989.

For more information, contact the NGF at 407-744-6006.

ER ONE THIS SEASON.



The worker ants take AMDRO back to the colony and feed it to the queen. The worker ants and the queen die, and the entire colony is eliminated — often in less than a week. And with baits like AMDRO, the colony won't relocate or satellite.

AMDRO is easy, because the worker ants do the killing for you. No other fire ant bait treatment works as fast and effectively to kill the mound. Which is why AMDRO is the undisputed market leader in fire ant control.

IMAGE Herbicide: Control the Uncontrollable.

IMAGE gets to the roots of the most troublesome weeds in warm season turfgrasses. IMAGE controls previously uncontrollable summer weeds like purple and yellow nutsedge, field sandbur, and dollarweed, as well as

winter weeds like wild onion and garlic.

Attacking below the turf line, IMAGE inhibits protein synthesis in the root, so these pesky weeds starve and die. Which means it improves the IMAGE of your course — year round.

PENDULUM®, AMDRO® and IMAGE®. The professional's choice for top turf performance. They'll leave your course looking like a million bucks.

Available from quality distributors of turf products. For more information or for the name of the Cyanamid distributor nearest you, call 1-800-545-9525.



ARCHITECTS, BUILDERS LISTS AVAILABLE AT GCN

Golf Course News maintains a list of golf course architects and builders doing business in the United States.

To obtain these lists, at \$10 apiece, write: Lists, Golf Course News, P.O. Box 997, Yarmouth, Maine 04096.

P.B.: Keeping up the long Dye family tradition

Continued from page 27

as I can, and yet fun and fair.

In the end, the most important thing is that the course is fun. There may be some things during a round at a P.B. Dye course that come up and bite you. But in the end, you can honestly say you had fun.

GCN: What trends do you see in the design field?

P.B.: Simplicity. It used to be that architects had to work with swampland, like my grandfather did here at Urbana. Now we can't touch that [because of government regulations] which means we get better pieces of land.

Architects are having to think more strategically, too. You can build a great 290-yard, par-4 that gets people thinking. I love to design at least three par-4s under 350 yards on every course.

GCN: Who is your favorite designer, other than someone in your family?

P.B.: Charles Blair Macdonald, Alister Mackenzie, Donald Ross. God, of course, was the best.

But I really like Macdonald. I just seem to know a lot of his work. He did some wonderful things, particularly with Seth Raynor, on Long Island like The Creek Club and Piping Rock and Yale University up in Connecticut. He was outrageous.

GCN: Do you have a favorite among your designs?

P.B.: The nine neatest holes in the world right here in Urbana. Paul F. Dye built the original nine on my grandmother's farm back in 1929. We built the new nine a couple years ago. We built it cheap, but it came out much better than I ever thought it would. We just pushed up the greens and used topsoil. It went against everything I'd ever learned. But it's worked. And it cost about \$250,000.

My log cabin looks out over the 2nd hole. I'll probably tinker with the course once in a while, kind of like dad does in the Dominican Republic [at Casa de

I was playing with a guy on one of my courses and he said 'You know, this course has VD. It's visually disturbing.' I like that. My father and I like to visually disturb people.

— P.B. Dye

Campo]. We don't own it [Urbana], but I'm sort of a caretaker.

GCN: You've been involved with Brassie Golf Corp., which recently merged with COPM management company and took over Hale Irwin Golf Services course management division. Are you still involved with Brassie?

P.B.: I'm a stockholder and designed three courses for them.

GCN: Do you routinely seek a part ownership interest in your course designs?

P.B.: I'll offer to take a part interest in a daily-fee project in exchange for, say, 30 to 50 percent of my fee. It lets me stay involved with a course on an ongoing basis. I offer it to everyone. Some take it and others don't.

But it doesn't affect whether I'll take the job or not. I have part ownership in three courses right now — Heritage (Ohio) Golf Club, Virginia Oaks Golf Club in Lake Manassas, Va., and Black Bear Golf Club.

GCN: Are you getting into the high-tech, computer-generated golf design systems?

P.B.: I wouldn't even know how to turn one on. I call what I do earth sculpting, which is basically playing in the dirt. I'll do the drawings and the rest I need to do to get permits.

But the plans any architect draws aren't exactly what he ends up with. I tell the developer going in that I don't know exactly what's going to happen. That's part of the process. But I know how to move dirt.

GCN: What's the most important thing you learned from your mother and father, both as a person and as a course architect?

P.B.: Personally, the thing they both stressed was that if you can do anything nice for someone, then do it and don't expect anything in return. It's a part of us, a family tradition that we always help if we can.

Professionally, I remember when I was working at Long Cove. Dad had just finished PGA West and was probably at his most radical point. Mom introduced me to a woman named Lajunta Stovall. She was an older woman, but had been a scratch golfer 30 years earlier. She was building a home near the 18th tee at Long Cove.

Mom sent me off to play golf with her for three days. She wanted me to learn how Mrs. Stovall played so that I could remember I needed to build courses that everyone could play, not just low handicappers.

That memory has helped me professionally as much as anything.

GCN: Are you more like your mother, father or Perry?

P.B.: None of the above. I'm really adopted... Seriously, I guess I'm a little like each one.

I've got a lot of Dad's habits and mannerisms. I like to play in the dirt. People can't tell the two of us apart on the phone. And I can focus strictly on the job at hand when I'm on the course.

I have a lot of Mom's personality traits. I'm very competitive, like to take the lead

Newest P.B. design a real bear in Fla.

Continued from page 27

on three sides by water.

A four-acre practice facility contains two par-3s, extensive greens, a chipping area, bunkers and videotapes.

Since the Tie Hole is lighted, "golfers can play into the night," Stein said.

"I had 200 acres of pure sand to work with and a low water table," Dye reflected. "You can manufacture just about anything with conditions like that. I tell everyone there are two great rides now in Orlando — Space Mountain and Black Bear."

Located next to Mount Dora, midway between Orlando and Daytona, Black Bear will offer five levels of membership, Stein said.

on projects and delegate authority. Mom and I are great organizers.

Perry and I both love our friends and like to party. We just can't work together. Our work habits are totally different.

He wanted the big office, large staff and high-level selling with clients late at night. I have a small office, no payroll and want to just go home and go to bed at night.

GCN: What was the greatest advantage in growing up a Dye and carrying that name as a designer? Any disadvantages?

P.B.: [Former Landmark Land Co. executive] Joe Walther said of Dad after he finished PGA West's Stadium Course, "I gave Pete Dye an unlimited budget and he exceeded it by \$2 million."

Joe was kidding, of course, but that quote was printed in every magazine in the country. The myth was born that every Dye project exceeded budget and was late.

I've designed 20 courses and every one was on time and on budget. But that Walther quote is the biggest disadvantage of having the Dye name.

The biggest advantage was simply growing up a Dye. In addition to having two wonderful parents, it also gave me a lot of great exposure to the game of golf and the golf industry.

GCN: How many courses a year do you design?

P.B.: Two, maybe three. There's just no way to do more than that.

GCN: Was there a course that made you as a designer?

P.B.: Growing up on Crooked Stick [Carmel, Ind.] got me interested in golf. But I really got off the stick and decided I wanted to be a golf course architect at Long Cove.

Dad and I went to Ireland six months before we started Long Cove. We saw at least two courses every day for three weeks.

I came back, finished up school, went right to Long Cove and jumped on a bulldozer.

I was there from January through October in 1980. Every square inch of the shaping there is mine. It was the first course where I was listed as the assisting architect.

That got me hooked.

Accurate Top Dressing With Wet Material. Amazing!



Top dress 18 greens in less than 4 hours.



Patented chevron belt design



Eliminates shovel loading



Precise on/off application

Turfco's patented belt uniformly and accurately spreads top dressing with all levels of moisture content. You can top dress with wet or dry material, from a light mist to a heavy application with the same Turfco spreader. Its 6 ground driven wheels give you a lower PSI than walking top dressers. They also eliminate hydraulics so you never have to worry about oil leaks on your greens. With just one operator, you can load the 22.5 cubic hopper and top dress 18 greens in only 3 to 4 hours. Amazing top dressers since 1961.

To demo our newest model call 612-785-1000.

TURFCO

Turfco Manufacturing Inc., 1655 101st Avenue Northeast
Minneapolis, MN 55449-4420, (612) 785-1000 Fax (612) 785-0556

BRIEFS

**MARRIOTT PROMOTES NAULT, SCHLICK**

ORLANDO — Long-time Marriott Golf employees Bill Nault and Tom Schlick have been named to the company's corporate staff. Nault was appointed director of golf operations and will be responsible for Marriott's 18 managed facilities on operational issues and new property development. Schlick was named to the position of director, ground operations. Kevin Hammock will remain as director of operations and business development.

MARE ISLAND GETS NEW MANAGER

VALLEJO, Calif. — The city has selected the #1 Golf Co. to operate Mare Island Golf Course. The nine-hole track will be expanded to 18 as soon as the U.S. Navy releases the property needed. Mare Island's entrances are still guarded by the Navy. The #1 Golf Co. operates two other California courses and is developing a third.

BRASSIE TAKES OVER MO. LAYOUT

LAKE OF THE OZARKS, Mo. — Brassie Golf Corp. has been awarded a management contract for North Port National Golf Club here. Great Southern Savings Bank of Springfield, which foreclosed on the property July 31, reached the agreement with Brassie and renamed the facility the Osage River Club.

MARYLAND FORMS OWNERS GROUP

Owners and managers of public and private golf facilities have formed the Maryland State Golf Course Operators Association. George Reich of the Severna Park Golf Center is the president. For more information contact association headquarters at 410-974-4473.

KSL ADDS PAIR

MANASSAS, Va. — Bethany Duffield and Jennifer Rydholm have joined KSL Fairways as MIS trainer and human resources manager respectively. Duffield comes from Diamond Management Systems, among the largest providers of club accounting systems in the United States. Rydholm recently worked for Columbia First Bank and has extensive human resources training in the printing, banking and government contracting industries.



Bethany Duffield



Jennifer Rydholm

GOLF COURSE NEWS

Southwest Golf set to expand reach throughout country

By PETER BLAIS

Golf courses are making money, but are they making friends? That's a question William Walters ponders every day.

"I'm not sure the attorneys, accountants and business people running golf today really understand what the game is all about," said Walters, chairman of The Walters Group and its subsidiary, Southwest Golf, which operates a total of five courses in Illinois, New Mexico and Arizona.

"The pros who ran golf courses for years knew little about how to run a business. Management companies came in and began operating them more profitably. The added revenue was good for golf. But they often lost the personal touch. There is still a huge demand for facilities run the old-fashioned way, with service and atmosphere being the most important things. We want to maintain our facilities at a high level with a high service level for our customers."

Service and atmosphere. Those are the qualities Walters said he will stress as he strives to grow his Las Vegas-based firm from its modest-sized present to a 20-plus course conglomerate.

The Burr Hill Club in St. Charles, Ill., currently under contract and expected to close in early October, is the latest addition to the Southwest portfolio. Southwest also operates Eagle Brook Country Club and The Golf Club of Illinois in suburban Chicago, Mesa del Sol Country Club in Yuma, Ariz., and Paradise Hills Golf Club in Albuquerque, N.M. All except Eagle Brook are daily-fee operations.

Southwest is also negotiating with the city of Las Vegas to build a Perry Dye-designed municipal course there. Walters said it would be only the second municipal layout in the fast-growing city. "It will be affordable, averaging \$22.81 per round for residents, including cart," he said. "Most of the public courses in Vegas are in the \$70-75 range."



A sample of how a portion of Paradise Hills Country Club in Albuquerque, N.M. looked before (above) and after (below) Southwest's renovation.



Walters hopes to buy or build four to five golf courses annually for the next few years throughout the United States. Plans are to group them like the three Chicago courses, which are located within 30 minutes of one another along Randall Road, a fast-growing area that is home to many corporate headquarters. The company will eventually

Continued on page 38

MARKETING IDEA OF THE MONTH

Dollar-per-hole plan attracts new and old golfers

By PETER BLAIS

ITHACA, N.Y. — It's 7:30 on a midsummer night, a time when a handful of golfers are working their way back to the clubhouse and the parking lot is fast emptying at most courses.

Not so here at Hillendale Golf Course.

"When most courses are getting ready to close down, we have a lot of people still coming in to play," said head pro Darlene Sommer.

Why? No, the course isn't lighted. And Ithaca isn't located above the Arctic Circle, so the club isn't bathed in sunlight 24 hours a day.

The reason is simple. Hillendale's dollar-per-hole plan allows golfers to play as many holes as they want any time of the day.

The program has been extremely popular with experienced golfers with an hour or so to kill after work and with beginners making their first tentative steps from the practice range onto the course.

"Our course is well set up for it," Sommer said. "Holes 1 through 3 bring you right back to the clubhouse. The same for 10 through 12. We get a lot of people who come out and play a few



The 16th tee at Hillendale Golf Club

holes who normally wouldn't bother to come out at all."

The dollar-per-hole program is particularly attractive to beginners, a special group that Sommer and course owner Mary Novickas have tried to make feel welcome at their course since the two began working together at Hillendale 11 years ago.

"We've always been geared to making the course comfortable for beginners and trying to understand what they're going through," Sommer said. "When beginners are out on the course with people bearing down on them it can feel like they're out there for an eternity. So we developed programs to make them feel comfortable and help

Continued on page 38

EPA ruling on USTs could free up loan money for courses

By PETER BLAIS

WASHINGTON — Lenders may be more willing to loan money to golf courses and others with underground storage tanks (USTs) because of a recent U.S. Environmental Protection Agency (EPA) ruling limiting the liability of lenders financially involved in properties with USTs.

"This doesn't change the things we'll require of a borrower," said Don Rhodes, vice president of Gray Rock Capital, a subsidiary of NationsBank and one of the country's leading golf course lenders. "But it will allow us to make a loan where we might not have done so before."

According to the EPA, the new rule will limit the regulatory obligations of financial institutions and others holding security interests in properties with USTs.

Lenders, EPA said, have been reluctant to extend loans to these small businesses for fear of incurring UST cleanup liability in situations where the business, for example, becomes bankrupt and the lender forecloses on the property. By reducing the regulatory obligations of lenders, the agency aims to remove this potential barrier to extending loans to small businesses with USTs.

The new rule makes lenders eligible for an exemption from all UST regulatory requirements, both prior to and after foreclosure, if the lender holds an ownership interest in a UST or in a property on which the UST is located to protect its

Continued on page 36

California court rules tee-time favoritism illegal

By NANCY SMITH

After 100 years of waiting, a recent California Supreme Court ruling may give women golfers the same access to club tee times as their male golfing counterparts.

The court recently decided in favor of Mary Ann Warfield, who fought a 14-year court battle with the Peninsula Golf and Country Club in San Mateo to win the right to hold a full-fledged membership. Her challenge was built on a 1897 state law entitling everyone, including women, free and equal access to all California businesses. Earlier this year, the California Supreme Court ruled the private golf club qualified as a "business establishment" under the Unruh Civil Rights Act, and therefore could not discriminate against a potential member. The landmark decision should change the way private clubs and selective membership associations in California operate and organize themselves.

Ms. Warfield's story began in 1970 when her then-husband, Richard, purchased a family membership in the Peninsula Golf and Country Club in San Mateo County, in Northern California. Ms. Warfield, an avid

Nancy Smith, J.D., is an attorney practicing in Pasadena, Calif. Her "Legal Corner" feature will appear in these pages on a regular basis. You may call her with story suggestions/queries at 818-585-9907.

golfer and daughter of a golf professional, enjoyed the club with her family for many years. She actively participated in club activities, was a member of the ladies golf team, and won several ladies club tournaments.

The complications started in 1981, when Ms. Warfield and her husband divorced. The couple's divorce settlement granted ownership of the club member-



ship to Ms. Warfield. But, according to club rules, family memberships were limited to ownership by the husband. As a result, the club's governing board terminated the membership. The club tried to buy out Ms. Warfield's interest for \$6,129.15, the membership's redemption value. Ms. Warfield refused to sell her interest back to the club.

As a longtime member, Ms. Warfield not only enjoyed her golfing privileges, but also used the club in her real estate business. The board tried to get around the awkward situation by creating a lesser "class" of membership for women which

she could buy for \$10,000. Again, Ms. Warfield said, "No, thanks."

Ms. Warfield then sued. She claimed the club's exclusion of her membership based solely on the fact she was a woman was discriminatory. She contended the club was a business under California law. Since 1897, California has quartered free and equal access to state businesses by anyone, regardless of gender, race, color, religion or other minority status.

Since 1981, Ms. Warfield has been engaged in a legal battle with the club, which claimed it had the right to bar her from membership because it was a "private social club" and not a "business" governed by the California law. Twice the case was heard in the trial court, twice it went up to the California Court of Appeal. More than 10 years later, the California Supreme Court ruled that the club had to follow the same rules as other businesses in the state.

The decade-long battle centered around the club's claim that it was a private club and not a business establishment. As a private club, it claimed to be exempt from the state's anti-discrimination laws. The state's highest court agreed that a truly "private" club would not be governed by the law and would be protected by constitutional rights to privately operate as its members chose.

However, the court ruled that Peninsula Golf and Country Club was not actually "private" because it conducted significant business with nonmembers. The golf and tennis "pro" shops located at the club were open to the general public as well as club members. Members of the public could book lessons with the shop pros at club facilities. The club allowed its facilities to be used for "sponsored events" in which a member would sponsor a nonmember to host a wedding, bar mitzvah, fashion show or dinner. Guests at such events could buy food and beverages from club facilities. Also, nonmember employees could use the club's facilities. Several local high schools were permitted to use the golf course during nonprime hours. In essence, the court held that the club could not buy and sell services to the public, and still claim at the same time to be entirely private.

"Through a variety of activities," the court wrote, "the club obtains both direct and indirect financial benefits from regular business transactions, conducted on its premises, with persons who are not members of the club."

The state's nondiscrimination law applies to "all business establishments of every kind whatsoever." Under this description, Peninsula Golf and Country Club was a business, rather than a private club, ac-

CMAA to hold 2nd Club Issues Forum

ALEXANDRIA, Va. — The Club Managers Association of America (CMAA) will host the Second Annual Club Issues Forum Nov. 18-20 in Palm Desert, Calif.

The forum is designed for managers, directors, owners and administrators of private clubs. The three-day event will provide an opportunity for managers and board members to look at their roles and responsibilities and how they can effectively work together to provide optimum services to members.

In addition, the chief operating officer concept will be presented as part of the roles and responsibilities discussion and effective planning explored as critical to establishing continuity and direction. Legal, regulatory and tax issues will also be presented.

Facilitator Tarun Kapoor, director of the Professional Institute at California's Polytechnic University's School of Hotel and Restaurant Management, will challenge participants to evaluate what they are doing in their own clubs.

Charles Rumbarger and Gerald Hurley will also make presentations. Rumbarger is the owner of Association Management Group, an association management and consulting firm. Hurley is president of Washington-based Association Executive Resource Group, a firm specializing in consulting and executive search for trade, professional and philanthropic organizations. For more information, contact CMAA at 703-739-9500.

cording to the California Supreme Court.

The club also argued that members had a constitutional right to associate with whom ever they chose. Imposing restrictions on the club's ability to choose members would violate its members constitutional rights of freedom of association, the club stated.

The court rejected the club's assertions. The club was not organized for a religious or fraternal purpose. The club was large and gave unrestricted access to its facilities. Elimination of the men-only membership would not fundamentally alter the nature of the club or its purpose, according to the court.

"The club's golf, tennis, and other recreational and social facilities generally have been open to women," the court wrote, "and women routinely have held nonproprietary classes of memberships within the club."



The only overseeder that does it all with one unique, simple motion.

It cuts the soil, opens the groove, sows the seed and closes the groove all in one simple operation. It'll even space as close as 1 1/2 inches. That's unique. And you'll be able to use the treated area right away. It's really a whole new concept in overseeding from Verti-Drain®, a company you can trust for innovation. To find out more contact your local dealer or contact us directly.



VERTI-SEED®
Sow and play right away.

Emrex, Inc., Box 1349, Kingston, PA 18704 (717) 288-9360

CIRCLE #125

YOUR "ONE-STOP" SOURCE
FOR AMERICA'S LEADING
GOLF SURFACES & SUPPLIES!

PARTAC®
GOLF COURSE
TOP-DRESSING



HEAT TREATED
PLUS CONSTRUCTION,
CART PATH, SAND TRAP,
AND DIVOT REPAIR MIXES

TYPAR®
GEOTEXTILES & TURF BLANKETS

Terra-Green®
SOIL CONDITIONER

NEW PARTAC® NEW
GREEN SAND
DIVOT REPAIR MIX

A UNIQUE SOLUTION TO UNSIGHTLY DIVOTS!
PARTAC® GREEN SAND BLENDED
WITH PARTAC® PREMIUM
TOP-DRESSING FOR EXCELLENT
GERMINATION AND
DEEP GREEN COLOR!

THE BEST DIVOT REPAIR MIX AVAILABLE!

AVAILABLE NATIONWIDE
800-247-2326
IN N.J. 908-637-4191

PARTAC PEAT CORPORATION
KELSEY PARK, GREAT MEADOWS, N.J. 07838
ORLANDO (FL) MEMPHIS (TN) RENO (NV)

HIGHLIGHT GOLF HOLES,
IMPROVE VISIBILITY,
& MAINTAIN CONSISTENCY

U.S. GOLF HOLE
TARGETS™



TerraFlow™
Drainage Systems

FLEXIBLE GOLF COURSE MARKERS
SAND TRAP PUMPS
RAKES, PLUG PUSHERS, SQUEEGEES
AND MANY MORE
GOLF SPECIALTY PRODUCTS

CIRCLE #127

1. Circle the appropriate reader service numbers below. **2.** Print your name and address; answer all questions; sign and date this form. **3.** Affix postage and mail.

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

Reader Service and Free Subscription Card

October 1995 (expires 1/96)

IMPORTANT
All information must be provided for processing!

Do you wish to receive/continue to receive *Golf Course News* FREE? ☐ Yes ☐ No

Signature: _____ Date: _____

1 My primary title is: (check one only)

- ☐ A. Golf Course Superintendent
- ☐ K. Assistant Superintendent
- ☐ B. Green Chairman/Dir. Grounds
- ☐ C. Director of Golf/Head Pro
- ☐ D. Club President
- ☐ E. General Manager
- ☐ F. Owner/CEO
- ☐ G. Builder/Developer
- ☐ H. Architect/Engineer
- ☐ I. Research Professional
- ☐ J. Others allied to field (please specify) _____

2 My primary business is: (check one only)

- ☐ 01. Public Golf Course
- ☐ 02. Private Golf Course
- ☐ 11. Semi Private Golf Course
- ☐ 03. Municipal/County/State/
Military Golf Course
- ☐ 04. Hotel/Resort Course
- ☐ 10. Other Golf Course: (please specify) _____
- ☐ 05. Golf Course Architect
- ☐ 06. Golf Course Developer
- ☐ 07. Golf Course Builder
- ☐ 09. Supplier/Sales Rep
- ☐ 08. Other _____

(please specify)

3 Number of holes:

- ☐ A. 9 holes
- ☐ B. 18 holes
- ☐ C. 27 holes
- ☐ D. 36 holes
- ☐ E. Other (please specify) _____

4 Total annual maintenance budget:

- ☐ 1. Under \$50,000
- ☐ 2. \$50,000-99,999
- ☐ 3. \$100,000-249,999
- ☐ 4. \$250,000-499,999
- ☐ 5. \$500,000-749,999
- ☐ 6. \$750,000-1,000,000
- ☐ 7. Over \$1,000,000

5 Annual capital expenditure:

- ☐ A. Under \$100,000
- ☐ B. \$100,000 - 249,999
- ☐ C. \$250,000 - 500,000
- ☐ D. Over \$500,000

6 Purchasing involvement:

- ☐ 1. Recommend equip. for purchase
- ☐ 2. Specify equipment for purchase
- ☐ 3. Approve equipment for purchase

PLEASE PRINT

Mr. ☐
NAME: Ms. ☐
TITLE: _____
FACILITY/COMPANY: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
TELEPHONE: (_____) _____ FAX: (_____) _____

Circle the appropriate number for product information.

101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
116	117	118	119	120	121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140	141	142	143	144	145
146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
176	177	178	179	180	181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200	201	202	203	204	205
206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235
236	237	238	239	240	241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260	261	262	263	264	265
266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295
296	297	298	299	300	301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316	317	318	319	320	321	322	323	324	325
326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355
356	357	358	359	360	361	362	363	364	365	366	367	368	369	370
371	372	373	374	375	376	377	378	379	380	381	382	383	384	385
386	387	388	389	390	391	392	393	394	395	396	397	398	399	400

My need for this information is: 1. ☐ Immediate 2. ☐ Future

All requests are subject to verification.

Publisher reserves the right to serve only those who meet the publication's qualifications. Free offer is for United States only. All Canadian subscriptions cost \$45.00 USD. All other foreign subscriptions \$125 USD. Non-qualified US subscriptions \$45. Payment must be received for subscription to begin.

Return Address



AFFIX
32¢
STAMP
HERE

GOLF COURSE NEWS
PO BOX 3047
LANGHORNE PA 19047-3047



Banc One

Continued from page 1

Voters in North Mankato, Minn., and Fountain, Colo., felt operating the courses were too much of a financial burden on their municipalities and, as was their option under the financial agreement, chose to return the properties to Banc One, Ayres said. The citizens of Carter Lake, Iowa, and Lemoore, Calif., are negotiating with the bank and could follow the same course, he added.

Banc One is no longer negotiating golf course municipal lease arrangements, Ayres said.

"We're still doing municipal leasing for other projects [police cars, fire engines, etc.]," Ayres said. "We're just not doing golf courses. Cities just don't seem interested."

First Golf Corp. of Tempe, Ariz., was the builder on all but the Colorado project, according to First Golf President Bob Neptune.

"We were hired to build the courses," said Neptune. "In each case, we came in on time and on budget for the work we were contracted to do."

• North Links Golf Course in North Mankato, Minn. opened its first nine holes in July 1993, a year later than anticipated because of rainy weather during construction, according to Town Finance Director Wendell Sande. The second nine opened a year later. The entire facility, including a large clubhouse the city chose to add, cost \$6 million. That was roughly \$2 million more than expected, he said.

"We're not unlike any other construction company in that we can't control acts of God," said Neptune in reference to the wet weather during construction. "But the price difference had nothing to do with us in North Mankato."

The city operated North Links for a year and a half. The course hosted 24,000 rounds in 1994, well below the 30,000 projected, according to Town Administrator Bob Ringhofer. Cart rentals were also below estimates, Sande added. Ringhofer said the projections may have been unrealistic to begin with since national rather than Minnesota figures were used in making the projections.

"The caliber of the feasibility work is critical for any golf project," said consultant James McLoughlin of the Pleasantville, N.Y.-based McLoughlin Group. "Too many feasibility study outfits simply say 'yes' to everything. I'd estimate 95 percent of the feasibility work done today simply doesn't pass muster."

As a result of the rain-delayed opening, cost overruns and unfulfilled projections, the city lost \$2 million on the North Links project, Sande said. When told at the end of 1994 that the municipality would have to subsidize the project for another five years before it was self-sustaining, taxpayers voted to return North Links to Banc One.

"If you look 10 to 20 years down the road, the city may regret giving up the course," Ringhofer said this spring. "It needed five years to begin operating properly. Giving it a year just wasn't fair. But the public prevailed."

Banc One, which provided \$4.6 million in financing, hired a management company to operate North Links and opened it late this spring. "Since we took over and put the management company in place, we've been meeting our projections," said Ayres, adding that Banc One will operate the course through the remainder of the year and seek a buyer next season.

• Banc One is negotiating with the suburban Omaha, Neb., city of Carter Lake, Iowa, regarding the troubled Shoreline Golf Course.

Carter Lake borrowed \$3.1 million five years ago to build the 18-hole facility, according to Golf Board Chairman Jay Gundersen. First Golf built the Pat Wyss-designed facility. It has been losing \$200,000 annually since it opened and the city has been unable to make its payments to

'North Mankato and Carter Lake could have been refinanced properly to make both work for their municipalities. I think both will be successful in the long run.'

— Bob Neptune,
President First Golf Corp.

Banc One the past two years, Gundersen said.

Floods and heavy rains damaged the course and curtailed play in 1992 and 1993, Gundersen said. But even half-inch rains have forced the course to close for the day, he said.

"I blame First Golf for many of the problems," Gundersen said. "The course is built on sandy soil, so it should drain well. We've had a couple architects tell us it's the poorest building job they've ever seen. We [city] made a lot of mistakes. But accepting the course as built in the first place was probably the biggest one... The city is still operating the course. But I don't know how much longer we can."

Neptune strongly disagreed with Gundersen regarding the quality of his company's construction work. Any problems, he said, may be a result of the city engineer's changing of the architect's plans. First Golf was ordered to go along with those alterations, he added.

"We absolutely did not do a poor job on that golf course," he said. "It was built to the specifications we were told to use. We did what we were hired to do and no one can document otherwise."

Gundersen added that Banc One hasn't been very supportive. "They wanted us to issue some junk bonds to fix up the course, but they wanted First Golf to do the work. They [First Golf] were the problem in the first place" he said.

Ayres said he couldn't comment on the Carter Lake situation since Banc One was still negotiating with the city.

"North Mankato and Carter Lake could have been refinanced properly to make both work for their municipalities," Neptune said. "I think both will be successful in the long run."

• In the early 1990s, Banc One financed an additional nine holes and a sprucing up of the abandoned Appletree Golf Course in Fountain, Colo., to the tune of \$2 million, Ayres said.

The city and local investors operated Appletree for four years before taxpayers voted to turn it back over to the bank in January 1994, said City Finance Director Bill Clark.

"It just wasn't meeting its debt obligation," Clark said. "The city ran it alone for a year, but it became clear it just wasn't going to happen for us."

Appletree never came close to reaching the 50,000 to 60,000 rounds projected in "overly optimistic" feasibility studies, Clark said. He blamed the course's relatively isolated location, far from the main road and a dozen miles outside Colorado Springs, for the lack of play.

Ayres said Banc One is actively seeking a buyer for the course. "We've had a professional management company in there for the past two years and it's doing quite well," he said. "There are so many municipalities that are having to make tough decisions about how to spend their money. Taxpayers often view golf as a luxury item and are likely to cut that before schools, police departments and other things."

• The city of Lemoore, Calif., will likely refinance its municipal course with Banc One, according to City Manager Allen Goodman. Banc One provided financing to upgrade and expand the facility from nine to 18 holes.

The new nine opened 30 months ago. Total revenues have been less than projected largely because greens fees have been held artificially low, Goodman said.

Phillips comment

Continued from page 8

simply made applications impossible. Meanwhile, in the upper Midwest, the combination of oppressive heat and skyrocketing dew points made for fungus heaven. Indeed, manufacturers could barely ship the fungicide fast enough.

Of course, it matters not what the adverse weather conditions might be — the superintendent faces the music without exception. That's why Mark Leslie's column (turn back to page 8) is so insightful this month. Go ahead: Give it a read... I can wait.

Apologies are due the Jacobsen Division of Textron, which was inadvertently left out of September's report on the first International Hong Kong & China Golf Exhibition and Conference (page 39). Jacobsen will exhibit during the November show. Indeed, Jake

has been involved in the venture from the outset.

Speaking of Asia-Pacific, expect a homecoming of sorts over the next few years, as American architects who've made their marks in the Pacific Rim look to secure more domestic contracts.

Many U.S. designers find it easier to cut their teeth abroad, where the pool of qualified native architects is, frankly, rather limited. Yet the call of America's lucrative design market, not to mention the "luxury" of doing business closer to home and family, is beginning to pull them back. Examples? Ron Fream, Nelson Wright Haworth, Perry Dye and J. Michael Poellot.

Domestic golf course developers would be remiss if they failed to consider these four, and others like them, for U.S. design jobs. They're experienced, innovative and, perhaps most important, they're hungry.

USTs & banks

Continued from page 35

security interest. The lender would not be liable for cleanup costs from a contaminated property provided it does not engage in petroleum production; refining and marketing; participate in the management or operation of the UST; or store petroleum in the UST after foreclosure.

"It's the right thing to do," Rhodes said. "The old rule was excessive environmental protection. It hurt everyone from golf courses to gas station owners. This gives lenders the safe harbor they need to make loans."

The rule specifies a range of activities, including foreclosure, which lenders can under-

take to manage and protect their collateral without being held responsible for compliance.

The rule also describes circumstances under which a financial institution would be considered to be participating in the management of any UST property and therefore responsible for UST cleanup costs.

Lenders will be allowed to regularly monitor or investigate borrowers' collateral, business condition and financial health. The lender may also require that the property be maintained in an environmentally sound manner as well as provide financial, administrative or other specific or general advice to clean up the property if contaminated.



Strength . . . Design . . . Beauty . . .

On Site Timber Bridge & Wall Construction

- Experienced With Environmental Areas
- Treated (CCA) Southern Yellow Pine
- Projects Throughout The U.S.
- Low Profile & Arched Bridges
- Retaining Walls
- Curb System & Picket Rails
- Custom Design & Build Service
- Piling Support & Free Span Bridges
- Designed To Specific Load Requirements

YORK
BRIDGE CONCEPTS
The Professional Bridge Company

Southern USA
800-226-4178

Northern USA
800-383-0555

Western USA
800-474-4990

See us at Golf Course Expo (booth #423) Nov. 9-10

Southwest Golf

Continued from page 35

establish a Real Estate Investment Trust (REIT) to finance further acquisitions, he added.

"We've targeted the high-end, daily-fee market," Walters said. "And we're willing to spend the money to bring our courses up to that level. You look at what we spent in Albuquerque, especially on the irrigation system. We could have probably bought two courses for that much. But we wanted Paradise Hills to be the best. And it is."

Walters also believes in spending money on good people.

"There seems to be a feeling out there in the industry that you can hire anyone as a golf professional," Walters said. "But good people, with experience, are worth

extra money. We hired Jim Barber to be in charge of the Golf Club of Illinois. He had 35 years experience and we pay him for that. [Director of Golf] Hank George at Paradise Hills had 16 years experience. We could have gotten someone for 35 percent of what we pay Hank. But he couldn't serve our customers like Hank."

As chairman of The Walters Group, William Walters oversees Southwest Golf and the company's other divisions. Walters is also known as the operator of a very successful handicapping and sports wagering company, real estate developer and builder of casino properties. He founded The Walters Group, known until recently as Berkley Enterprises, in 1988. With total assets of \$28 million, the company is also involved in mortgage banking, venture capital, real estate development, hotel opera-

tion, casino development and management.

President and Chief Operating Officer Richard Chulick, formerly a partner in the Big Six accounting firm of Deloitte & Touche, focuses on the financial aspects of the company, including finding and evaluating investment opportunities. Other key Walters Group executives include Executive Vice President and Director of Real Estate Activities Stephen Yavorsky, Director of Real Estate Construction Daniel Way, Chief Financial Officer Cathryn Goecke.

Southwest Golf was formed in 1991 to fulfill Walters' dream of owning and operating a golf course. Paradise Hills was the company's first purchase followed by Mesa del Sol. The company expanded out of the Southwest in the past year with the purchases of The Golf Club of Illinois,

Eagle Brook and The Burr Hill Club.

Southwest Golf's management team includes several former Jim Colbert Golf Inc. [now Golf Enterprises Inc.] veterans. Director of Acquisitions Richard Campbell, Director of Operations Larry Wright and Western Regional Director of Golf Course Maintenance Richard Friedmann are all Colbert alum. Other key Southwest personnel include Director of Golf operations Michael Sullivan, Director of Golf Course Development Jim Barber, Director of Sales and Marketing Gail King, Director of Food and Beverage Services Mitchell Epstein and Midwest Regional Director of Golf Course Maintenance Gregory Johnson. Johnson is a former agronomic consultant for architect Perry Dye and superintendent of the Golf Club of Illinois.

THIS FALL... THINK SPRING!

- An excellent dormant feed fertilizer that provides a deep green spring color
- Beneficial in applications after aerification or prior to seeding and sodding to promote turf growth and recovery
- Minimal leaching and volatilization for use near sensitive wetlands or waterways
- An 85% slow-release natural and organic fertilizer which promotes excellent color and density without excessive growth

THE
NATURAL
CHOICE
FOR YEAR-ROUND
TURF MANAGEMENT

**Nature
Safe®**

Natural & Organic Fertilizers

A DIVISION OF
GRIFFIN INDUSTRIES, INC.
OVER 50 YEARS OF EXPERIENCE

FOR A DISTRIBUTOR NEAR YOU

CALL (800)252-4727

CIRCLE #129



Also available in
10-2-8, 10-3-3, and 7-1-14



Dollar-per-hole

Continued from page 35

ease their way onto the course."

Hillendale began offering eight, one-hour lessons for \$20 11 years ago (the cost is \$60 today). The last lesson ends with Sommer taking her pupils onto the course and staying with them for two to three holes before returning to the clubhouse.

Many return, Sommer added, to take advantage of the dollar-per-hole offer. They usually begin playing two or three holes at a time. Many work their way up to nine then 18. Before long they join leagues, buy merchandise in Hillendale's pro shop and ultimately become members. Sommer estimates 80 percent of Hillendale's 175 members are graduates of the club's group-lesson program.

"The transition from the range to the course is a big one," Sommer said. "Beginners often feel like they don't belong on the course or in the clubhouse. The National Golf Foundation has done studies and is concerned about the number of beginners who start but give up the game."

"Our beginners aren't leaving. We have a lot of older men and women who are intimidated to go out and play a full nine on a regulation course."

"They come into the pro shop with the intention of playing three holes and come back off the course having played nine or 18. We get people playing and enjoying the game. If they enjoy it, they'll play more often. That's when we make our money."

Since most of the members came up through the dollar-per-hole program, there is rarely resentment on the part of members toward the fledgling golfers playing three, four or five holes at their course, Sommer said. Golfers are given the option of paying before or after they hit the course. Since many don't know how many holes they'll ultimately play, most wait until they're finishing before settling up at the pro shop.

"We haven't had any problems with people paying less than they should," Sommer assured. "People have been absolutely honest."

GOLF COURSE NEWS

BRIEFS



TURFLINE SECURES VIBRATORY PATENT

ST. CHARLES, Mo. — Turflite, Inc., the manufacturer of the True-Surface(r) Greens Rolling System, has been awarded a patent for the company's vibratory greens roller by the U.S. Patent Office. The patent was issued in 1992 and the rollers can now be found on courses in the U.S. and overseas. The True-Surface(r) system incorporates an unbalanced center shaft with an eccentric flyweight to create the needed movement of the outer roller, designed to result in a truer, faster putting surface. For more information, contact the firm at 1-800-443-8506.

BOWLER TO STAFF SEAL'S A-P OFFICE

KUALA LUMPUR — National Seal Co. will open a new sales office here in an effort to target the expanding Asia-Pacific environmental market. National Seal sees particular opportunity in Taiwan, Australia, Thailand and the Philippines, where rapid growth in the environmental industry has spurred interest in these types of containment systems, according to Mike Bowler, vice president of Asia-Pacific operations. For more information, phone the U.S. office at 708-898-1161.



Mike Bowler

EP AERATION SCORES AT PGA WEST

LA QUINTA, Calif. — E.P. Aeration has announced that eight of its EP LK series sub-surface activated oxygen aeration systems have been installed at the new Tom Weiskopf-designed course here at the PGA West complex. The systems, which will treat three lakes at the course, were specified and selected by Pacific Advanced Civil Engineering, based in Huntington Beach, Calif. The lakes were constructed by Living Waters of Brea, Calif.

GREENSCAPE EXPANDS, RELOCATES

CARROLLTON, Texas — Greenscape Pump Services, Inc. has announced the expansion and relocation of its main offices here. The new address is 1425 Whitlock Lane, Suite 108, Carrollton, Texas, 75006; phone — 214-446-0037; fax — 214-446-0313. Greenscape has also opened a new branch San Antonio office, which can be reached by writing 11031 Wye Drive, Suite 102, San Antonio, Texas, 78217; calling 210-590-9577; or faxing 210-590-9066.

Chemical firms brace for MCS P.R. struggle

By HAL PHILLIPS

WASHINGTON, D.C. — It's called MCS, short for multiple chemical sensitivity. No one is sure what causes MCS, how to prevent it, or whether there's actually anything to prevent. However, the specialty chemical industry is shoring up its scientific flanks in anticipation of a public relations struggle.

The phenomenon of MCS — a condition of ill health allegedly induced by reactions to household and workplace chemicals — has prompted an upcoming conference, "Multiple Chemical Sensitivities: State of the Science Symposium," scheduled for Oct. 30 to Nov. 1 in Baltimore. The event is co-sponsored by the International Society of Regulatory Toxicology & Pharmacology, the Johns Hopkins University Educational Resource Center and the National Medical Advisory Service, Inc.

MCS also commanded a great deal of attention at the RISE Annual Meeting, held here in September. RISE (Responsible Industry for a Sound Environment) — a trade association and lobbying group representing more than 120 members of the specialty chemical industry — has taken a position consistent with the nation's mainstream medical community: That MCS is essentially a psychological affliction.

Nevertheless, RISE devoted an entire morning's education session to MCS, a disorder not recognized by mainstream toxicologists but one that has garnered increased public exposure in the courts, in Environmental Protection Agency (EPA) facilities, even in the nation's movie theaters. RISE members also heard from representatives of the Environmental Sensitivities Research Institute (ESRI), a group trying to inject more science into the debate.

"The broader issue of MCS affects the

Continued on page 41



contingent representing Europe and Asia-Pacific, traveled to Deere headquarters in order to evaluate and critique the firm's product lines. During testing and neighboring Pinnacle CC, green, fairway and rough mowers were all evaluated, in addition to utility vehicles and a number of concept machines.



Bob Samner photos

FEEDBACK '95 IN MOLINE

More than 800 golf course industry experts, 550 of them superintendents, descended on Moline, Ill., in late August for John Deere's annual Feedback '95. Five different groups from the United States and Canada, plus a

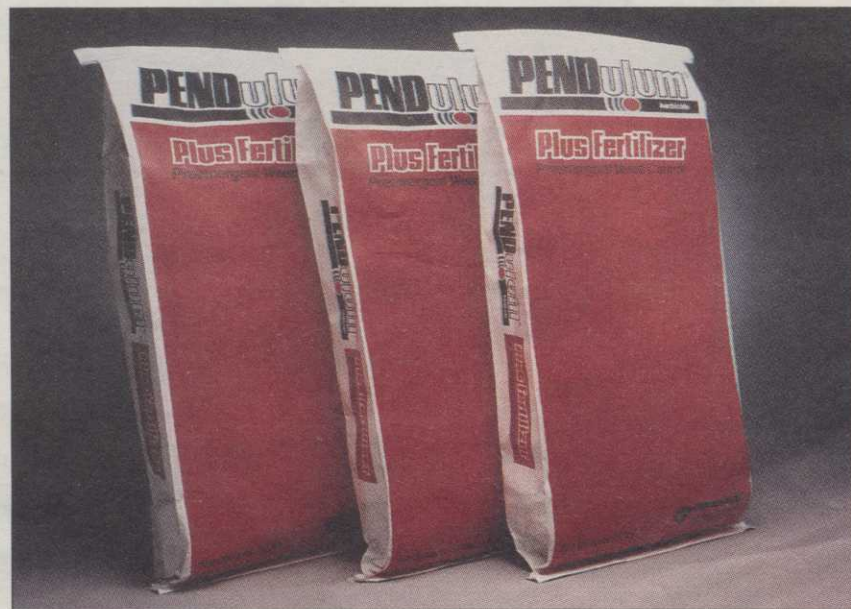
HCC wins patent suit for Dig-it knockoff

ALEXANDRIA, Va. — Spancrete Machinery Corp. of Milwaukee, Wis., has been awarded an undisclosed sum in financial damages from RH&M Machine Co. of Morgantown, W.Va., for the infringement of U.S. Patent No. 4,925,358, covering a towable backhoe marketed under the trade name, Dig-it.

The ruling, issued by the U.S. District Court for the Eastern District of Virginia, also orders RH&M to discontinue sale of the infringing backhoe

which it had designated as the Gopher Digger II.

The jury's infringement verdict had been reached in December of 1992 but had been stalled when the trial court overturned the verdict on technical grounds. The original verdict of infringement has since been reinstated by the court of appeals for the Federal Court. Dig-it products are currently marketed and manufactured by HCC, Inc. of Mendota, Ill.



NEW PRODUCT OF THE MONTH

American Cyanamid has brought golf course superintendents the convenience of pre-emergent herbicides and fertilizer in one product with Pendulum Plus Fertilizer, formulated to provide control of most annual grasses and many broadleaf weeds found in turfgrass. Pendulum Plus is a granular product and can be applied with most commercially available spreaders. It will be available in early 1996. For more information on Pendulum Plus Fertilizer, call 201-831-387. For more new products, see page 42.

American Cyanamid, Rohm & Haas join forces on insecticide

American Cyanamid Co. and Rohm and Haas Co. have announced the formation of RohMid L.L.C., a marketing and sales joint venture to develop, register and commercialize a new insecticide, RH-0345, for the U.S. turf and ornamental market.

According to Janet Giesselman, Turf and Ornamental products manager for Rohm and Haas, and Tom Perkins, Ph.D., business manager, Turf, Ornamental and Pest Control Products at American Cyanamid, both firms have expertise in developing molting accelerator compounds (MACs) for the 2.2 million acre U.S. turf market. The formation of RohMid allows the companies to share the costs of developing a new insecticide and to expedite the development of data needed to register the product with regulatory authorities.

RohMid hopes that the Environmental Protection Agency will grant a registra-

Continued on page 41

Mass. firm tests market for biodegradable tees

By J. BARRY MOTHES

DALTON, Mass. — A small western Massachusetts environmental business thinks it has the answer to tee areas littered with broken tees that take months, if not seasons, to decompose.

The Terra Form company makes biodegradable "TerraTees" from corn starch and other biodegradable materials. TerraTees absorb moisture more quickly than wood and become inviting to microorganisms. They decompose in about six weeks. Wooden tees take a full season, if not longer.

TerraTees are currently sold in selected environmental stores, some golf specialty shops like Pro Golf Discount and Nevada Bob's, and K Mart and Wal-Mart. The company also does a fairly brisk business in the custom advertising specialty market. A box of 15 tees recently sold for \$1.99 at an environmental specialty store in Maine.

Gary Larravee, the co-owner of Terra Form, said the idea for TerraTees was born three years ago during a meeting with Warner Lambert Co., the company which made Listerine, Trident gum and other pharmaceuticals. Warner Lambert had a material that was in need of an application. The company had tried to make golf tees from the material on its own with mixed results. Larravee told Warner Lambert he could do it, and from there launched the product.

As well as having a quicker decomposition rate than wooden tees, TerraTees are quickly and easily sliced by certain types of golf course maintenance equipment, like mowing reels, that can be nicked or affected by wooden tees. Larravee said he has heard mixed reports about the strength of TerraTees compared to wooden tees. He said some people have told him they break the tee every time they tee off, while others claim to get two or three hits off them.

TerraTees are not the first biodegradable golf tee ever produced. Larravee said a 14-year-old boy in Golden, Colo., made a biodegradable golf tee from peat moss, recycled paper and other products for a science project and won a national science fair with the idea. The boy's father opened a business around the product but it didn't pan out.

"Right now we are the only ones in the U.S. doing it," said Larravee. "The market hasn't expanded because of the cost of the tee. We can't compete with a wooden tee."

TerraTees are slightly more expensive than wooden tees,

something that Larravee sees as a real obstacle to truly cracking the serious golf market.

TerraTees cost between 3 and 5 cents each while wooden tees cost one cent. Larravee hopes to be able to change that in the near future if the cost of materials goes down.

"We're trying hard to get into the resorts and [golf] clubs," Larravee said. "That's where the big market is."

Milorganite deal backs turf research

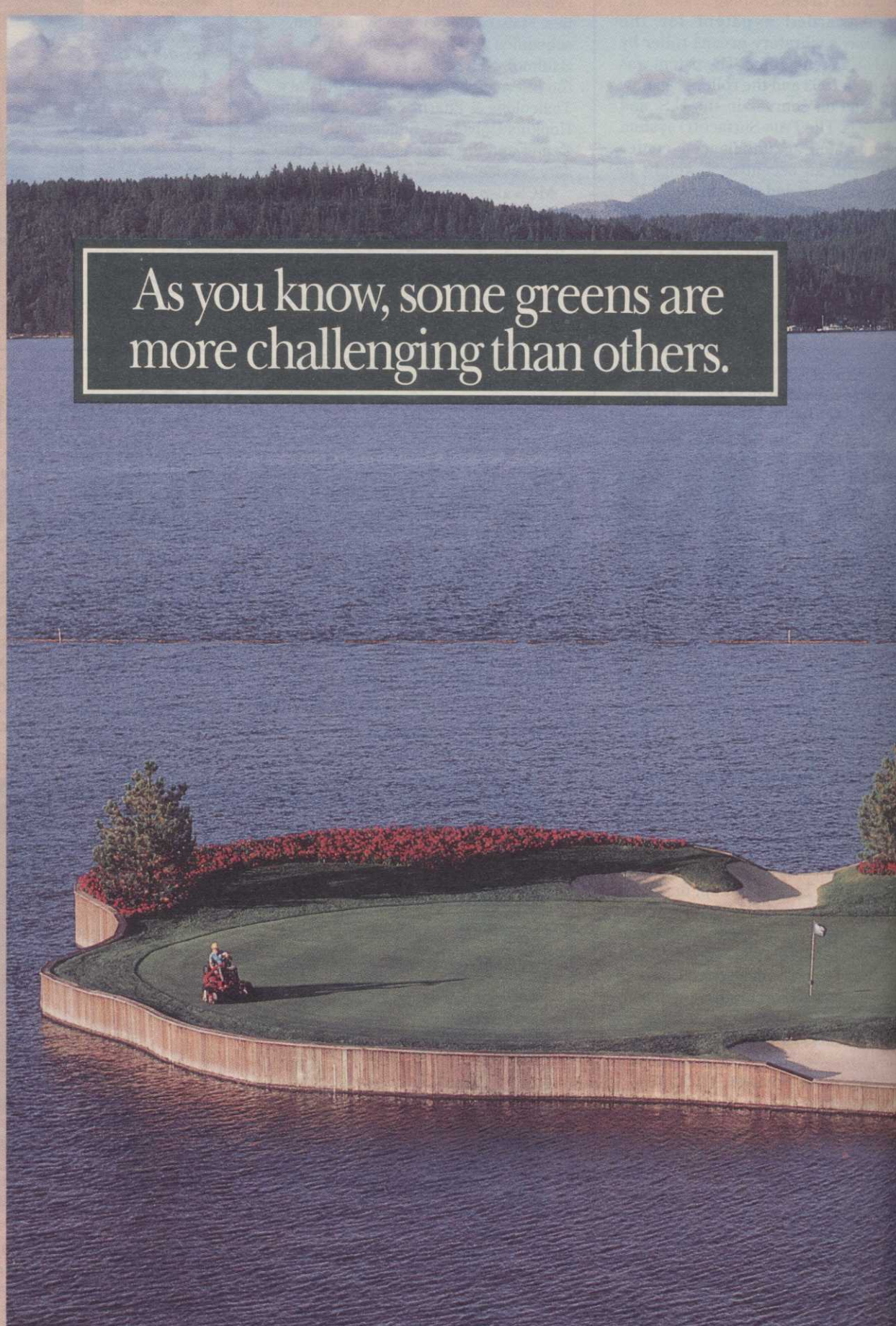
MILWAUKEE, Wis. — Turf managers can help support turfgrass research when they buy Milorganite fertilizer this fall, according to Alan Nees, Milorganite's director of marketing. For each ton of 50-pound bags or new 1,000-pound mini-bulk bags purchased and delivered between now and Nov. 30, Milorganite will donate \$10 to the superintendent's turfgrass research organization of choice.

"We've been long-time supporters of turfgrass research at the national level through our involvement with the O.J. Noer Turfgrass Research Foundation," Nees explained. "We're excited about this program because it enables Milorganite customers to support turfgrass research at the local level as well."

Call Milorganite at 1-800-287-9645 or your Milorganite distributor for details.

RANSOMES EARNS PATENT FOR LEAK DETECTION SYSTEM

LINCOLN, Neb. — Ransomes America Corp. has been awarded a patent by the U.S. Patent Office for its hydraulic oil leak detection system. Early detection of hydraulic oil leaks helps prevent turf damage. Adaptable to either the Ransomes Greensplex 160 greens mower or the Ransomes 250 fairway mower, the Ransomes Turf Protection System features a float sensor, temperature gauge and micro-computer which work in concert to monitor hydraulic oil levels and temperature variances.



As you know, some greens are more challenging than others.

Gill acquired by Woods Equipment

OREGON, Ill. — Woods Equipment Co. has acquired the assets of Gill Manufacturing Co., L.P. Terms of the agreement were not disclosed.

Based in Charlotte, N.C., Gill is a manufacturer and marketer of landscaping products to dealers primarily located in the Eastern and Southeastern regions of the U.S. Core products include pulverizers, turf renovators, seeders, core plug aerators, landscape rakes, and spreaders. The integration of these products broadens the spectrum of Woods'

Turf and Grounds Care Business.

As the third acquisition for Woods in the past twelve months, Gill joins the ranks of other brands that comprise the Woods product offering. In July 1994, Woods expanded into the industrial/construction attachment market with the acquisition of Gannon Manufacturing.

The addition of Alloway Manufacturing in November 1994 reinforced the commitment to provide agricultural dealers with a brand of specialty agricultural attachments.

Netlon secures Minn. distributor

BLAINE, Minn. — The Glen Rehbein Companies, headquartered here, have joined the Netlon Limited North America distributor network. The network centers on providing the patented Netlon Advanced Turf system, which incorporates small, interlocking polypropylene mesh elements with a free-draining rootzone medium covered by natural grass. The system is designed to relieve surface pressure.

The Glen Rehbein Companies include Glen Rehbein Excavating, which handles golf course construction, and Glen Rehbein Farms, which maintains two sod farms, a major installation of Strath Ayr SquAyr, and a washed-turf system. Glen Rehbein Farms can be reached by calling 612-674-7937. For the Netlon distributor nearest you, contact Stephen Guise at 714-578-0215.

MCS campaign

Continued from page 39

entire pesticide industry, including golf courses, because the ultimate solution in terms of believers of MCS is non-use of the offending pesticide," explained RISE Executive Director Allen James.

"In reality, the issue is not that big. That's not the reality. However, for more specific uses like golf courses, there more might be more local reactions. Neighbors might object to the uses of certain chemicals under the aegis MCS, saying they were supersensitive to pesticides."

MCS has gained momentum in recent years as an increasing number of people have sued employers, citing adverse physical reactions to the chemicals used in pest control products, paint and lawn applications. In California's Marin County, HUD recently financed construction of the ultimate "safe house," built and maintained with nothing that might be deemed chemically volatile — paint, pesticides or certain polymers. Even an EPA building here in Washington has been singled out as chemically "unsafe," owing to allegedly toxic carpet glue.

Hollywood has entered the fray with "Safe," an art house film that documents an affluent housewife's bout with mysterious symptoms she believes are caused by chemical aspects of her environment. Though the film makes clear the housewife's problems are primarily psychological, industry representatives and groups like RISE and ESRI fear the stampede of public opinion may legitimize the mysterious disorder.

"There's a harassment factor here," James explained. "Many proponents of MCS will simply harass the users of a particular chemical until the users simply cannot fight it anymore. We haven't seen it on golf courses yet, but we've seen it in other areas, like homeowners associations."

For more information on "Multiple Chemical Sensitivities: State of the Science Symposium," contact the symposium coordinator at 301-230-6553. For more information on the ESRI, call 301-984-8933.

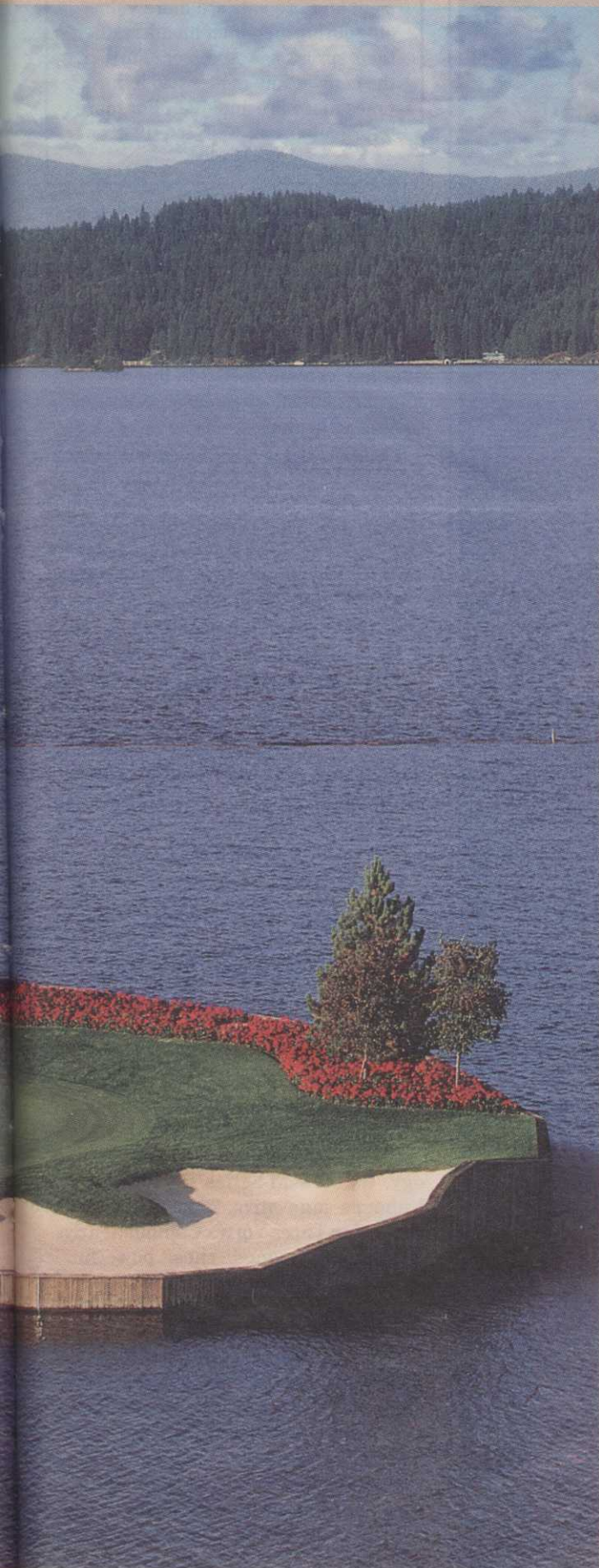
Insecticide coop

Continued from page 39

tion for the insecticide in the U.S. by early 1997.

RH-0345 is a diacylhydrazine insecticide that controls grubs and other soil-borne pests on golf courses, industrial parks, home lawns, and other turf applications. This compound (benzoic acid, 4-chloro-, 2-benzoyl-2- (1,1-dimethylethyl) hydrazide) has a unique mode of action that interferes with the normal molting process of grubs and caterpillars.

RH-0345 can be applied at low use rates, without harm to earthworms, honeybees or other beneficial insects.



14th green, The Coeur d'Alene Resort Golf Course, Coeur d'Alene, Idaho.

They come in all sizes, shapes and locations. But every green challenges you to maintain a consistently superb quality of cut.

You gladly accept that challenge. And Toro offers a complete family of riding and walk greens mowers to help you succeed.

Like our Greensmaster® 3100. With fully floating reels, in 2 or 3 wheel drive. The softest footprint of all. A quieter engine. And Turf Guardian® leak detector.

No wonder more riding greens mowers bear the name Toro than any other.

Because ours are products of Toro's partnership with golf course superintendents for

80 years. To design exactly what you need to create beauty and playability of tournament caliber.

We like challenges, too.



Greensmaster® 3100. Designed to be both environmentally friendly and quiet. With a superb quality of cut.



Greensmaster® 1000. Superintendent rated the world's best walk greens mower.

TORO

Helping You Put Quality Into Play.®

For more details, contact your Toro Distributor.
1-800-803-8676, ext. 152

CIRCLE #132

Turfgo Glisten cleans, leaves fresh scent

A new golf ball and club cleaner, Turfgo Glisten, has been introduced by United Horticultural Supply.

Glisten cleaner can be added to golf ball and club washers at a very low rate, just one ounce per gallon of water. Glisten has pleasant citrus aroma and excellent cleaning capabilities. Glisten offers two unique traits which sets it apart from current ball washers on the market today, a brightener and biocide. The brightening action is extremely effective on golf balls. The biocide works in the washer to reduce rancidity.

For more product information, contact United Horticultural Supply, 4564 Ridge Drive NE, Salem, OR or call 503-390-9473.

CIRCLE #302

Amiad offers new 2-inch t filters

Amiad Water Systems Technologies has introduced 2-inch t and 2-inch Super t plastic filters, designed to provide several key benefits to the filter user: ease of maintenance, a lower pressure loss through the filter, and the ability to use more than one type of filter media. The compact versatile design allows for "in-line" installation or 90-degree "angle" installation while offering a flow capacity of up to 150 gallons per minute. For more information, contact your Amiad distributor, or call Amiad at 1-800-969-4055, ext. 202.

CIRCLE #301

Yamaha Ultima goes 48V, with Pacesetter

Yamaha Golf Car Group has unveiled the new Ultima 48V with PaceSetter, available in early 1996. Equipped with a new 48-volt power system, a regenerative braking system and the 48V Charger, the Ultima 48V reduces fleet operating costs because it draws less energy from its batteries than a 36-volt car. The 48-volt car provides more rounds per charge. With Yamaha's new PaceSetter regenerative braking system, the solid state microprocessor speed controller converts the electric motor into a generator when the golf car reaches a predetermined speed, actually putting energy back into the batteries. For more information, contact Yamaha at 770-254-4150.

CIRCLE #303

DLT kills fire ants with 'understanding'

DL Turner of DLT Laboratories of Marshall, Texas, has discovered what makes fire ants tick. But more important, he can show you how to make them "untick".

Turner's environmentally friendly pesticide Bioguardian, when used as directed, takes away their below-ground energy source and fire ants instantly shut down to die. Turner has had his formula rated by the U.S. Drug Administration and Texas A&M at 98 percent efficacy and, according to Turner, Bioguardian is guaranteed to work each and every time it is used. Turner said that, although Bioguardian works the same all year around, you are most efficient and fire ants are more vulnerable during the winter months rather than spring and summer. Further, the concentrate makes two to three times more fire ant killer. For more information, call 1-800-927-1902.

CIRCLE #304

Buckeye Beer Garden

Open for lunch each day!

Meet prospective employees!

OTF 1995

Ohio Turfgrass Foundation Regional Conference and Show

December 5 - 8, 1995 Columbus, Ohio

Exhibits!

Over 550 booths with the latest in turfgrass equipment, chemicals, and technology await you!

Education!

No matter what your specialty is, you will benefit from attending the 1995 Ohio Turfgrass Foundation Regional Conference and Show. Don't miss one of the industry's largest events!

- Golf Course Superintendents
- Lawn Care Operators
- Athletic Field Managers
- Grounds Maintenance Personnel
- Landscapers
- Sod Producers

The industry's top experts will once again be in Columbus to share the latest in turfgrass research and education. Recertification credits are available from many states!

Silent Auction

Industry products and other valuable items will be available for you to purchase at the Silent Auction.

New! Breakfast Roundtables

Meet with your fellow turfgrass professionals and industry representatives in an informal breakfast meeting.

Rush me information on:

- ☐ Exhibiting ☐ Attending ☐ Membership

Name

Company

Address

City State

Zip Phone

Ohio Turfgrass Foundation • PO Box 14824 • Columbus, OH 43214-0824
Phone 614-261-6750 • Fax 614-261-1242

IPMS offers injectable pesticide system

Integrated Pest Management Systems, Inc. has introduced Turfject, a low pressure-low volume pesticide injection system for control of molecrickets, nematodes and grubs.

Turfject injects all liquid applied insecticides/nematicides below the thatch layer, where the soil borne insects and nematodes live. Unlike high pressure systems, Turfject uses pressure from 20-50 PSI and volumes from 10-20 GPA.

Turfject uses a spring loaded disc to slice the sod creating a slit 1/2-2 inches deep. A low pressure thin stream of pesticide solution is injected into the slit. The insect comes into contact with the pesticide through diffusion with irrigation or during movement through the soil. Call IPMSI at 800-380-0718 for more information or write: IPMSI, 2440 SW Cary Parkway, Ste. 125, Cary, NC 27511.

CIRCLE #305

Kubota introduces two new tractor models

Rugged in design and boasting advanced new styling, Kubota Tractor Corp.'s 42-PTO-horsepower M4700 and 50-PTO-horsepower M5400 utility tractors are designed to meet the power and performance superintendents demand.

Offering cutting-edge engine technology, the new M-Series tractors feature Kubota's innovative 2600 rpm ETVCS (Emission Three Vortex Combustion System) diesel engines. These powerful 5-cylinder, liquid-cooled engines feature a combination of high power, low noise and vibration and quick starts.

Featuring synchronized shuttle transmission, the M4700 and M5400 tractors allow operators to easily shift directions. One simple movement with the shuttle lever is all it takes to change direction from forward to reverse with the synchro-mesh shuttle transmission. For more information about Kubota products, contact Kubota Tractor Corp. at 3401 Del Amo Blvd., Torrance, Calif., 90503.

CIRCLE #306

Golf Course Marketplace

To reserve space in this section, call Diana Costello-Lee at 207/846-0600

EMPLOYMENT OPPORTUNITIES

SALESMAN WANTED

Sell to golf courses. Inexpensive, widely used pipe locator. Commission basis, 30%. **Bloch & Co.** PO Box 18058, Cleveland OH 44118. (216)371-0979.

GOLF COURSE SUPERINTENDENTS & ASST. SUPERINTENDENTS.

American Golf is rapidly expanding, offering opportunities for advancement & relocation. This is an excellent opportunity to gain experience and advancement in the New York, Michigan & Ohio areas. Send resumes to: **American Golf Corporation, Northeast Regional Office c/o Dean Wochaski, CGCS-6904 Salisbury Road, Maumee, OH 43537.**

ATTENTION! WASHINGTON STATE GOLF COURSE BUILDERS.

"One of the finest finish graders in the golf course construction industry" desires to move and work in the state of Washington. 35 years experience as a golf course shaper. (Quote is by Randy Brown) Call Elvin at: **360-928-9541.**

CERTIFIED IRRIGATION CONSULTANT

Professional designer offers consulting in irrigation and drainage for new construction & remodel jobs anywhere in the world. Emphasis on water use/cost efficiency and construction quality control. **Gary S. Kaye, CID: 602-482-8270; 800-985-8186.**

GOLF COURSE CONSTRUCTION

Landscapes Unlimited, Inc.

To keep up with the constant growth that is occurring at Landscapes Unlimited, we are in need of experienced Shapers, Operators, and Irrigation Specialists who are committed "to be the best". You can team up with us by calling or sending a resume to: **Landscapes Unlimited 5831 S. 58th St., Suite C Lincoln, NE (402)423-6653.**

GOLF COURSE CONSTRUCTION

Shapers needed at once. Must be willing to travel. Fax resume and date available to: (616)547-7009.

WANTED:

Golf Course Irrigation Supt. or Foreman. Must have excellent references. Excellent pay & benefits. Fax resume to: **512-261-9165.**

Bernhard & CO.

Suppliers of world leading grinders

Express Dual & Anglemaster.

Are looking for sales/tech reps to join our rapidly expanding team in US markets. Can you demo & handle sales calls around the USA using our precision machines at top golf courses?

Call us at **1-800-210-2235.**

GOLF COURSE CONSTRUCTION

Superintendents, shapers & irrigation specialists needed at once. Fax resumes to: 915-784-7918. Or mail to: **Rausch Golf Inc. Rte. One, Box 281, Brownwood, TX 76801.**

WANTED:

Experienced heavy equipment operators, shapers and job supervisors. Immediate openings! Please contact Cindy at (612) **796-6554.** Please have resume ready to fax to us.

DO YOU HAVE AN IDEA FOR A NEW PRODUCT OR PRODUCT INNOVATION?

If so, please let us evaluate your idea. We are looking for new products in the golf maintenance area. Call 1-800-253-2112, and ask for a confidential disclosure form.

FOR SALE

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.**

PIPE LOCATOR

INEXPENSIVE! Locates and traces underground drains, water pipelines of clay, PVC, ABS, steel & cement. Finds sprinklers, valves & clogs. Used by over 1000 golf courses! **Bloch & Co. PO Box 18058, Cleveland, OH 44118. (216)371-0979.**

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.**

GOLF COURSE ACCESSORIES

Premium Replacement Parts for Outdoor Power Equipment

J. THOMAS DISTRIBUTORS, INC.

Introducing: **INTERMIX™** No Smoke NEW Oil

FOR THE UNEATABLE PRICE OF **\$23.50 PER CASE**

OPTIMUM TRIM LINE™ PRICES START AS LOW AS **\$9.95**

Spindle Bearings PRICED AS LOW AS **\$4.80 EACH**

Complete Gearbox STARTING AS LOW AS **\$149.99**

FOR PRODUCT INFORMATION OR A FREE CATALOG OF OUR COMPLETE LINE OF MOWER AND SNOWPLOW PARTS CALL **1-800-422-4184**

QUALITY!

- Laser Measuring • Scorecards
- Sprinkler Tagging • Yardage Books
- Redwood & Bronze Tee Signs

FORE BETTER GOLF, Inc.
1-800-468-8672
Fax: 708-893-0455



Mid Tenn Turf, Inc.

Services -
• Row Plant Sprigging • Broadcast Sprigging
• Sod Installation • Hydro Seeding • Laser Grading
• Complete Athletic Field Construction & Renovation

Sod Varieties -
Available in 16" x 24" Slab or 42" x 120" Big Roll
• Blended Fescue • Vamont Bermuda
• 419 Bermuda • Quickstand Bermuda
• Tifway II Bermuda • Myer Zoysia

Sprigs available in all Bermudas and Zoysia
Manchester (615) 728-0583
Nashville (615) 254-4728
Fax (615) 728-0168 Toll Free 1-800-782-4083
4698 New Bushy Branch Rd.
Manchester, Tennessee 37355

GET THE LATEST DEVELOPMENT
Subscribe to the **Golf Course News Development News letter** which tracks golf course projects under consideration across the nation! Just \$195 for a yearly subscription. Call Editor **Peter Blais** for more information on how you can subscribe. Call (207)846-0600.

REAL ESTATE

TEXAS GOLF COURSES

Nine & eighteen holes-statewide. Some with extra land, development lots. Descriptive list available. **Texas Golf Properties, 1603 Lightsey, Austin, TX 78404. (512) 442-1812.**

GOLF COURSE FOR SALE-DELRAY BEACH FLORIDA

18 Hole executive length Golf Course with 9+ acres of prime, undeveloped land. For Information write to: **PO Box 3327 Palm Beach, FL 33480.**

GOLF COURSES AVAILABLE

Turnaround Opportunity. 18 Hole, semiprivate. Richmond, VA asking 2.8M cash. Excellent 27 hole Golf Course near Albuquerque, NM asking 2.95M cash. **For info: Roger Garrett, CB Commercial Golf Group. (602)-262-5511.**

WANTED-GOLF COURSE COMMUNITIES

Available for purchase, located in Eastern US. Call: **Woodland Real Estate Advisors-Stephen Davis (412)281-7400.**

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: \$80 per column inch (25-35 words, including a bold headline). Each additional 1/4 inch is \$20. If ordering a logo, please indicate and include an extra \$42; for a blind box, please indicate and include an extra \$16. All line ads must be prepaid. All rates are per insertion. For more information, call Diana Costello-Lee at (207) 846-0600. To place your classified ad, mail this form with enclosed payment to: **Golf Course News, PO Box 997, 38 Lafayette St., Yarmouth, ME 04096** or fax to: (207) 846-0657.

Your Name _____
Company Name _____
Address _____
City/State/Zip _____
Daytime Phone _____ Fax _____

☐ Payment enclosed, or
☐ Charge to my credit card
☐ Visa/MC _____ Exp. date _____
☐ Am Ex _____ Exp. date _____
Signature _____

Please attach separate sheet of paper if extra space is needed.

☐ Logo
☐ Blind Box

CLASSIFIED ORDER FORM

October

7-10 — *American Society of Landscape Architects in Cleveland.* Contact Mindy Peckham at 202-686-2752.

9-12 — *49th Northwest Turfgrass Conference in Stevenson.* Contact 360-754-0825.

11 — *West Texas Turfgrass Conference in Snyder, Texas.* Contact Pam Deeds at 806-354-8447.

31 — *The Carolinas Golf Investment Seminar in Pinehurst, N.C.* Contact Andy Hinds at 910-379-1400.

November

4 — *6th Annual Rutgers Professional GolfTurfManagement School and Alumni Awards Banquet in East Brunswick, N.J.* Contact 908-828-6900.

4-7 — *Georgia GCSA Annual Meeting at Jekyll Island.* Contact Karen White at 706-769-4076.

7-10 — *Turf and Grounds Exposition in Rochester, N.Y.* Contact 800-873-TURF.

9-10 — *Golf Course Expo in Orlando, Fla.* Contact Golf Course News Conference Group at 207-846-0600.

13-15 — *Women in Golf Summit '95 in Pinehurst, N.C.* Contact 904-254-8800.

13-16 — *7th Annual West Virginia GCSA Turf Conference and Show in Morgantown.* Contact David Tennant at 304-594-1541.

14-16 — *Midwest Regional Turf Foundation Turfgrass and Ornamental Seminar in Lafayette.* Contact 317-494-8039.

16-18 — *Tree Care Industry Exposition '95 in Indianapolis.* Contact National Arborists Assn at 800-733-2622.

December

4-7 — *26th Annual Georgia Turfgrass Conference and Trade Show in Atlanta.* Contact 404-228-7300.

5-8 — *Ohio Turfgrass Foundation Conference and Show in Columbus, Ohio.* Contact 614-261-6750.

6-8 — *Minnesota Turf and Grounds Conference and Show in Minneapolis.* Contact Scott Turtinen at 612-473-0557.

6-8 — *Rocky Mountain Regional Turfgrass Conference and Trade Show in Denver.* Contact Julia Marie at 303-688-3440.

12-14 — *Georgia Turfgrass Conference and Show in Atlanta.* Contact 404-975-4123.

1996

January

6-7 — *National Golf Course Owners Association Seminar for Family Businesses in Palm Springs, Calif.* Contact NGCOA at 803-881-9956.

15-17 — *Massachusetts Turf Conference in Boston.* Contact Edward Brearley at 508-584-6568.

23-25 — *36th Virginia Turf and Landscape Conference and Trade Show in Richmond.* Contact Bruce Tharp at 804-340-3473.

23-26 — *Midwest Regional Turf Foundation Midwest Turf Expo in Indianapolis.* Contact 317-494-8039.

25 — *9th Annual Inland Northwest Turf and Landscape Trade Show in Spokane.* Contact Julie Boyce at 509-535-8305.

February

5-12 — *GCSAA 67th International Conference and Show in Orlando, Fla.**

10-17 — *Club Managers Association of America World Conference of Private Club Managers in Honolulu.* Contact 703-739-9500.

March

2-5 — *Canadian Turfgrass Conference and Trade Show in Vancouver.* Contact Chuck Desveaux at 905-602-8873.

* For more information contact the GCSAA Education Office at 913-832-4430.

Golf Course Marketplace

To reserve space in this section, call Diana Costello-Lee, 207-846-0600

Featuring:

- Hancor** Technology...Innovation...Solutions
- Drain Pipe
- Nyoplast Drains
- NDS Drains
- Geotextiles
- Lake & Pond Liners
- Silt & Safety Fences

Eagle Interface for Greens Construction

Serving the Golf Construction Industry Worldwide

EAGLE GOLF & LANDSCAPE PRODUCTS
1-800-21-EAGLE



CIRCLE #150

Quality with a Twist

A twist of our easy off lid gives you quick access to Pinhigh's quality reel sharpening compound.



Call 1 (800) 422-4748

CIRCLE #152



Buildings For:

- Club Houses •
- Offices • Retail •
- Cart & Equipment Storage •

• Proven Performance •
• Warranted Satisfaction •
Pre-engineered wood frame buildings.


LESTER

LESTER BUILDING SYSTEMS
A Division of Butler Manufacturing Company

1-800-826-4439

Call Now For Free Information!

CIRCLE #154



PAVELEC BROTHERS GOLF COURSE CONSTRUCTION CO., INC.

✓ New Construction
✓ Renovation
✓ Field Drainage Systems

TONY PAVELEC (201) 667-1643
EMIL PAVELEC (201) 939-6182

98 Evergreen Ave.
Nutley, NJ 07110

CIRCLE #156

Exceptional Software...

SCMS Superintendents Compliance / Management System

"The Choice of Today's Grounds Managers"

From Equipment Tracking and Employee Training...
To Compliance Reports and Chemical Records

Free Demonstration Diskettes
Call Toll Free (800) 472 8882

Environmental Compliance Systems, Incorporated
21 North Avenue Lake Forest IL 60045

CIRCLE #158

TRIMS for Windows

The Worlds Most Popular Grounds Management Software is now available for Microsoft Windows. TRIMS for Windows features multi-tasking, multi-user capability and on-screen report preview!



TRIMS for Windows includes:

- Budgets & Expenses Tracking
- Inventory & PO's
- Personnel & Labor Activity
- Equipment Maint. & WO's
- Chemical & Fertilizer Records
- Irrigation & Weather
- Fuel Reporting
- Event Scheduling
- TRIMS DrawView for site plans


TRIMS Software International
3110 N. 19th Ave., Suite 190
Phoenix, AZ 85015

For More Information Call:
(800) 608 - 7467
(602) 277 - 0067

CIRCLE #151

Slow Play is Not Caused by Slow Golfers - It's a Management Decision.

A poorly marked course slows play. Isn't it time you made the management decision that increases revenue and golfer satisfaction?



The Kirby Marker System

800-925-4729 • 619-931-2624

CIRCLE #153

Flymo

Hovering Trimmers

3 NEW MODELS
GCT12, GCT15, and GCT21

Starting at \$369.95

Powerful engine, multidirectional cutting, lightweight, fast and easy to use, assembled in the USA

1-800-345-1960
FAX 305-973-8032

PRECISION
SMALL ENGINE CO., INC.
POMPAHO BEACH, FL

CIRCLE #155

Featuring **CERTIFIED**

MEYER Z-52 ZOYSIA

- EL TORO ZOYSIA
- TALL FESCUE
- TIFWAY II
- TIFTON 419
- TIFDWARF
- MIDLAWN

1-800-666-0007

QUAIL VALLEY FARM

"Of course we're playing on Quail Valley!"

P.O. Box 5508
LITTLE ROCK, AR 72215

CIRCLE #157

LAMINATED WOOD SHELTERS & BRIDGES



Order Direct From The Leading Manufacturer in U.S.

- Complete Prefabricated Packages
- Ready for Fast Erection
- Direct Distribution Throughout the U.S.
- Custom Design & Engineering

EnWood Structures
MANUFACTURER OF ENGINEERED WOOD PRODUCTS

CALL 800-777-8648
P.O. Box A • Morrisville, NC 27560
Tel. 919/467-6155 • FAX 919/469-2536

CIRCLE #159

Golf Course Marketplace

To reserve space in this section, call Diana Costello-Lee at 207-846-0600



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

NGF Sponsor Member

NATIONAL GOLF FOUNDATION B-DA-CL

CIRCLE #160

Formost Construction Co.

Serving the nation for over 30 years.



IRRIGATION SPECIALISTS

"Doing One Thing Well"

P.O. BOX 559
TEMECULA, CALIFORNIA 92593

(909) 698-7270
FAX (909) 698-6170

STATE LIC. #267960

CIRCLE #162



EXCEL

BRIDGE MANUFACTURING CO.

Golf Course Bridges are our specialty! We fabricate easy-to-install, pre-engineered spans and deliver them anywhere in the USA. Call today for a free consultation.

Carlton Oaks Country Club, Santee, CA 10' wide x 60' long, 10,000 lb. capacity

Our classic design, with a look that stands the test of time.

800/548-0054 (Outside CA)
12001 SHOEMAKER AVENUE, SANTE FE SPRINGS, CA 90670
310/944-0701 • FAX 310/944-4025

CIRCLE #163

ENGRAVED YARDAGE LABELS

- Bright Colors • Fasteners included
- Orders quickly shipped UPS **Free Samples!**

NEW ITEM... "THE SOLUTION"

For Areas Without Sprinklers. Put Your Message Plus Yardage Anywhere: Hazard Points, Tees, Practice Ranges.

YARD EDGE GOLF

1-800-284-9273

P.O. Box 13159
Wichita, KS 67213




CIRCLE #165

ACCU-GAGE™



NEW! **LIFETIME WARRANTY** ON BARS WITH **DURA-COAT™**

ACCU-GAGE is a precision tool for making highly accurate height-of-cut measurements on greens mowers or other precision mowers.

AVAILABLE IN 15", 18", and 24" bars.

Our LIGHTWEIGHT and RIGID aluminum bars are now treated with DURA-COAT. DURA-COAT wears better than tool steel and enables us to offer this unique LIFETIME WARRANTY.

To order call **1-800-253-2112** or fax **1-313-429-3985**.

PRECISION TOOL PRODUCTS CO.
7836 Bethel Church Rd. • Saline, MI 48176

CIRCLE #167

POND & LAKE LINERS

- ◆ Buy Direct from fabricator 20, 30, 40 mil PVC, Hypalon, HDPE, & VLDPE.
- ◆ Custom fabricated panels of up to 25,000 S.F. available.
- ◆ Material Only, Material & Supervision, or Complete Installation service.

1-800-524-8672

Colorado Lining Company, 1062 Singing Hills Road, Parker, CO 80134. 303-841-2022 Fax 303-841-5780

CIRCLE #161

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 \$195 for a year's subscription

For more information contact
Editor Peter Blais at 207/846-0600

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 #164

Keep Your Divot Seed Mixture Where It Is Used ...




... in Divot Seed & Soil tee buckets next to the tee markers. Available in Cedar or Redwood slats and with companion Trash™ debris buckets.

Ask Your Golf Course Distributor for **INNOVATIVE MAINTENANCE PRODUCTS**

From *Master of the Links*

P.O. Box 283, Lockport, IL 60441-0283
(815) 723-4444 • Fax (815) 723-4485

CIRCLE #166



C-LOC

Developed and introduced the first vinyl plastic interlocking panels for soil retention applications

PANEL FEATURES:

- Attractive appearance
- Easy to install
- Proven performance

To find out more about C-LOC, call or write today:

C-LOC Retention Systems, Inc.
P.O. Box 0283 • Utica, MI 48318
(810) 731-9511 • FAX (810) 731-9516

CIRCLE #168

ADVERTISERS' INDEX

Cir.#	Advertiser	page
123	American Cyanamid	32-33
112	American Cyanamid	15-17
168	C-LOC Retention Systems, Inc.	45
114	Club Car	19
161	Colorado Lining Co.	45
160	Continental Bridge	45
108	DTN Weather Center	12
130	E-Z-GO	47
150	Eagle Golf & Landscape Products	44
158	Environ. Compliance Systems	44
159	Enwood Structures	44
163	Excel Bridge Mfg.	45
115	Flowtronex/PSI	20
162	Formost Construction Co.	45
—	Golf Course Expo	24-25
129	Griffin Industries/Nature Safe	38
164	Harrington/Harco Corporation	45
131	Jacobsen	48
149	Jacobsen*	28-29
152	Jesco Products/Pinhigh	44
—	John Deere	21
153	Kirby Markers	44
154	Lester Building Systems	44
166	Master of the Links	45
122	Midwest Railroad Ties	30
104	Milorganite	6
128	Ohio Turfgrass Conf. & Show	42
102	Otterbine/Barebo	3
109	Par Aide	14
127	Partac	36
156	Pavelec Bros. Construction	44
155	Precision Small Engine	44
167	Precision Tool Prod. Co.	45
116	Precision Tool Prod. Co.	21
157	Quail Valley Farms	44
201	Ransomes, Ransomes America Corp.*	4
103	Rhone-Poulenc*	4-5
120	Rohm & Haas*	28-29
118	Rohm & Haas	22-23
107	Sandoz Agro, Inc.	10-11
105	Standard Golf	7
119	SubAir	26
121	Tee & Green Sod	30
101	Tee-2-Green	2
132	Toro Comm'l. Prod. Div.	40-41
151	Trims International Software	44
117	Turf Merchants	21
124	Turfco, Inc.	34
202	United Horticultural Supply*	5
125	Verti-Drain/Emrex	36
113	Warren's Turf Professionals	18
106	Watertronics	9
165	Yard Edge	45
126	York Bridge Concepts	37

* Appears in regional editions.

Vigoro Corp. reports 2nd quarter earnings

CHICAGO, Ill. — The Vigoro Corp. (NYSE:VGR) has reported record net earnings for the second quarter and first half of 1995. Second quarter net earnings of \$41.4 million, or \$2.09 per share for the three months ended June 30, 1995, increased 21 percent compared to \$34.2 million, or \$1.72 per share, last year.

Potash revenues rose \$26.4 million, or 69 percent, and potash operating income increased \$7.5 million, or 41 percent, to \$25.8 million in the quarter, primarily due to the acquisition of Central Canada Potash in early January.

Expo Development Track addresses an ever-changing market

By PETER BLAIS

ORLANDO — Profit centers, the environment, planning, financing and public/private partnerships. These are all matters developers and operators of public golf courses didn't have to worry about just a few years ago.

But the golf industry has changed dramatically in the past decade. The golf boom of the 1980s was great for the cash register. But as with any growing industry, success brought with it greater governmental scrutiny and increased competition.

How to deal with these and other factors affecting public golf development will be the focus of the **Development Track** at this year's Golf Course Expo scheduled for Nov. 9-10, here at the Orange County Convention Center. Golf Course Expo is the nation's only conference and trade show geared toward public-access golf course superintendents, developers and general managers.

"Golf course development has become much more specialized as the years have gone by," said Barry Frank, vice president of consulting for the National Golf Foundation. The NGF is organizing the Development Track for the second annual Expo.

"Developers who prepare themselves to meet

new challenges will be more successful," Frank said. "The speakers and sessions we've assembled will leave attendees much better prepared to meet those challenges."

The first of those speakers, course architect Dr. Michael Hurdzan, will follow Thursday morning's keynote address from fellow architect Pete Dye and his family. Hurdzan will speak from 10:15 to 11:15 a.m. on *The Value and Trends in Golf Learning Centers*.

Hurdzan has designed some of golf's most famous courses, including Devil's Pulpit and Devil's Paintbrush in Caledon, Ontario, named the best new courses in Canada in 1992 and 1993 by *Golf Digest* magazine. The Columbus, Ohio-based designer also worked as a golf course superintendent and a course builder before becoming a course architect.

"Golf has long suffered from an image problem that it was a rich, white man's sport," Hurdzan said. "It's a mistaken perception, but that's what many people believe. One of the reasons they feel that way is they haven't been exposed to the game. Learning centers will help improve the game's image by exposing more people to golf."

"Practice centers are also good business. A well-designed facility will be attractive to 100 percent of



Dr. Michael Hurdzan



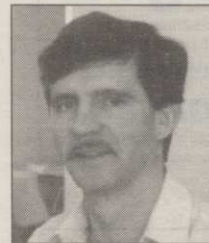
Kathy Milthorpe

the population rather than just the 10 percent of the population that plays on regulation courses. And practice centers will help the game grow."

Stuart Cohen, president of Environmental & Turf Services Inc., will wrap up Thursday's Development Track with a one-hour discussion of *The Current Environment of Environmental Permitting* beginning at 12:30 p.m.

At his Wheaton, Md.-based firm, Cohen is responsible for supervising and conducting field and computer risk assessments for turf chemicals used on golf courses. Cohen received the U.S. Environmental Protection Agency Special Achievement Award for work in groundwater contamination by pesticides and the EPA bronze medal for the ethylene dibromide groundwater assessment.

Jack Mathis, president of Golf Plan Group, opens Friday's NGF session speaking from 10:15 to 11:15 a.m. on the *Importance of Planning Your Golf Project*. Mathis has organized many multi-million-dollar projects during his 20-plus year career in course planning, development and design. His company works directly with course developers,



Stuart Cohen

Hiers added to Expo speaking program

ORLANDO, Fla. — Tim Hiers, certified golf course superintendent at Collier's Reserve in Naples, will replace Double Eagle superintendent Terry Buchen as a speaker at Golf Course Expo here, Nov. 9-10.

With Buchen unable to speak, attendees will hear a litany of money-saving tips from Hiers, who last February became the first individual to ever be awarded the President's Environmental Award from the Golf Course Superintendents Association of America. Under his leadership, Collier's Reserve became the first Audubon Signature facility in the world.

Winner of the first-ever John James Audubon Steward and the Florida Region Environmental Steward awards, Hiers will share a number of ways to save money on the course and in the maintenance complex while conserving the environment.

builders and architects throughout the creative planning and government approval phases.

"Planning and programming run hand in hand," Mathis said. "Proper planning and programming won't guarantee success. But improper planning and programming will guarantee failure."

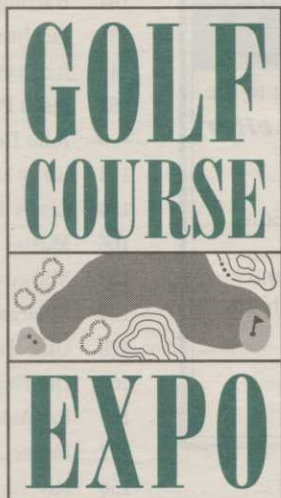
Funding Methodology: Public Sector Options and Private Sector Options will be the topic for speakers Gregory Fairbanks and Kenneth Reece from 12:30 to 1:30 p.m. Fairbanks is vice president of investment banking for Miller & Schroeder Financial in Columbus, Ohio. He has more than 10 years experience in the securities and finance industries and has been financing municipal courses since 1989.

Reece is senior vice president with NationsBank's commercial banking division covering Raleigh, N.C. and the greater Wake County area. During his 22-year career with NationsBank, Reece has provided financing for all types of golf course projects throughout the Carolinas and Virginia.

The final Friday session runs from 3-4 p.m. and features Ladies Professional Golf Association Director of Finance and Administration Kathy Milthorpe and Consolidated Development's Bill McMunn. They will speak on *Public/Private Partnerships*, especially as they relate to the public-access, 36-hole LPGA International in Daytona Beach, Fla.

The development of the LPGA's new home reflected the combined efforts of the LPGA, the state of Florida, landowner Consolidated-Tomoka Land Co., the city of Daytona Beach and the Buena Vista Hospitality Group, according to Milthorpe.

"This type of cooperative effort is becoming more popular because of the difficulties municipalities and private developers have in going it alone," Milthorpe said. "We'll discuss how this partnership came about, some of the successes we've enjoyed and the difficulties we encountered."



ORANGE COUNTY CONVENTION CENTER
ORLANDO, FLORIDA
NOVEMBER 9-10, 1995

A NATIONAL EXHIBITION AND CONFERENCE FOR OWNERS,
SUPERINTENDENTS, MANAGERS, AND DEVELOPERS OF
PUBLIC-ACCESS GOLF FACILITIES



Audubon, allied associations target public-access courses at Expo

Continued from page 1

planning to exhibit at the Expo. The United States Golf Association (USGA) Green Section, American Society of Golf Course Architects (ASGCA), Golf Course Builders Association of America (GCBA), National Golf Course Owners Association and other groups will also be present.

"Public golf represents the vast majority of golf activity in the U.S.," said Jim Snow, national director of the USGA Green Section, "and we are anxious to get the word out to these facilities about what we offer. We want to have as big an impact as we can on the conditions the public golfer has to enjoy."

"It's important to be at the Expo to make sure we're known in that market," said Phil Arnold, executive director of the GCBA. "More and more courses are public-access and, right now, that is driving the industry forward. Whereas, four or five years ago it was real-estate, now it is the stand-alone, public, medium- to high-end public course. Obviously, as long as the construction industry is going forward, my members are benefiting."

"From the 100 years golf courses have been built in this country, it's been a long, slow trend toward more public golf courses and less private," said Jeff Brauer, president of the ASGCA. "There is nothing that I see to contradict that trend. I'm certain that's the wave of the future — to an even greater degree than what it is now."

"There may be certain periods of time — such as the 1980s — when construction of private courses accelerates relative to public courses. But I think we've demonstrated that public courses are the most financially feasible and we've even seen public courses used to sell housing lots, which is a relatively new trend. They make an excellent front door. And they provide valuable recreation assets for the entire community."

In a 90-minute meeting at 5 p.m. Nov. 9 at the Orange County Convention Center, Dodson will speak to current and potential members about the international Audubon

program. Shelly Foy, Florida coordinator for the Audubon Cooperative Sanctuary Program (ACSP), will give an overview of her state's many projects. And Nancy Richardson, senior ecologist and director of the Audubon Signature Program, will speak on that program.

In its second year, Golf Course Expo is the only national conference and trade show geared solely toward superintendents, owners, managers and developers of public-access golf facilities. Along with a trade show, the Golf Course News-sponsored event presents concurrent educational tracks dealing with development, marketing and management, and maintenance. Keynote speakers will be the Pete Dye family and Club Corporation of America founder Robert Dedman.

"Working with public-access courses is important," said Dodson, "because our ultimate goal through all our programs is to inform the public about the attributes of a well-sited, well-managed golf course and the role that they as golfers can play in being stewards of the environment..."

"Working with publicly accessible golf courses broadens our ability to work with people from all walks of life and all interest levels. So it's important to us from an educational perspective as well."

Only about 10 to 15 percent of the 1,700 golf courses belonging to the ACSP are public facilities. Dodson feels that is because of the misconception that it is an expensive proposition. Quite the opposite, he said, adding that he and the other speakers at the Audubon meeting will illustrate the many cost savings that can be made by initiating environmental measures. Snow said about 25 percent of the courses that call in Green Section agronomists for consultations are public. Many public course superintendents may have the idea that paying a USGA agronomist is beyond their means. But Snow explained: "We charge by the half-day. Courses in one area could band together and call us in. We can hit three courses in one morning sometimes."



Work Wonders.

Transport turf. Shift sand. There's very little E-Z-GO turf vehicles can't handle. Thanks to heavy load capacities. Spacious load beds. And a wide range of options and accessories to customize for virtually any job. So workers will be able to haul more. Handle bulkier loads. And get more done.

Call 1-800-241-5855. We'll put you in touch with your nearest E-Z-GO representative. You'll wonder how you ever got along without one.

E-Z-GO **TEXTRON**

©1994 E-Z-GO Textron

E-Z-GO Division Of Textron Inc.

CIRCLE #130

2 new models. 5 extra inches. 11% more common sense.

Higher capacity hydraulic circuits.

New one piece enclosed hood.

New console for controls.

Two new models: LF-123 and LF-128.

Sensible hydraulic flow layout.

100 inches of cut per pass.



It just makes sense: Start with the top-selling light-weight fairway mower in the world, and introduce two new models. Both the 23-horse LF-123 and the 28-horse LF-128 offer common sense where you need it most.

More horsepower per inch of cut. Even with fewer horses than the nearest competitor, we deliver up to 11% more horsepower per inch of cut. How? By featuring hydraulic flow layouts that get power to cutting units more sensibly. Instead of one pump being responsible for more cutting, each shares work evenly. The result: superior cutting capacity—even in thicker, heavier grass.

More inches per pass. Of course, you not only get more muscle where you need it most, you also get a 5" wider swath than the nearest competitor—a full 100 inches of cut per pass.

More sensible features. New, more ergonomic controls mean more operator convenience. A stylish, new enclosed hood design lowers sound levels and makes accessibility easy. And the optional, one-of-a-kind Turf Groomer® fairway conditioner creates the ultimate fairway playing surface. Both two-wheel and four-wheel-drive models are available. Ask your Jacobsen dealer for a demonstration.

THE PROFESSIONAL'S CHOICE ON TURF.

**JACOBSEN
TEXTRON**

Jacobsen Division of Textron Inc.

CIRCLE #131

