

# GOLF COURSE NEWS

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Fred Couples (left) and Gene Bates are collaborating on a unique daily-fee project in California. See page 64.

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## Piece of the pie

More and more designers trade fees for ownership slice

By PETER BLAIS

With new course financing still difficult to obtain in some cases, architects and builders are increasingly willing to take an ownership interest in a project, either as part of the original development team or in exchange for all or part of their fees.

Michael Hurdzan, P.B. Dye and Bob Cupp are among the architects/owners. Landscapes Unlimited President William Kubly is probably the most active builder/owner.

"The main reason we're willing to get involved is that golf is a good business," explained Hurdzan, who owns part of three golf facilities. "If it were a bad one, we wouldn't do it."

Professionally, Hurdzan believes ownership increases an architect's credibility with clients by providing insights into golf

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#### SPECIAL GCSAA SECTION

- Comprehensive show & conference schedules
- Updates on bylaws, candidates
- Profiles of award winners
- Helpful party hints
- Speakers, show entertainment and more!

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Arthur Miller

## Environmental debate assumes center stage

By J. BARRY MOTHES

ORLANDO — It's 8 a.m. Friday at your golf course. Pithium is raging. A shot gun start member-guest golf tourney is set to start in 30 minutes. As golf course superintendent, you decide to go with a quick pesticide treatment. At a post-tourney barbecue, several golfers complain of headaches and vomiting. Do you tell them about the morning pesticide application?

The above scenario was a quick off-the-cuff creation by Dr. Frank Rossi, a turf professor at the University of Wisconsin-Madison. But it's exactly the kind of thing Harvard law professor and frequent TV legal commentator Arthur Miller can be expected to spring on a panel of golf industry and environmental experts at this year's Environmental General Session panel at the Golf Course Superintendents Association of America International Conference and Show.

Continued on page 27

## Progress at EPA? Maybe

By HAL PHILLIPS

WASHINGTON, D.C. — "They have a new way of handling data that has sped up the entire process," said AgrEvo's George Raymond. "Turn-around times on a number of submissions have dropped from 18 months to six."

Added American Cyanamid's John Thomas: "When they heard the arguments we posed regarding increased safety, they accelerated their review process and put us on the fast track for registration."

Could these people be talking about the Environmental Protection Agency (EPA)? Amazing as it may seem to golf industry veterans familiar with the lengthy, multimillion-dollar registration process, yes.

Continued on page 85



The stunning Maroon Creek GC in Aspen, Colo. — one of the projects which earned Landscapes Unlimited and its president, Bill Kubly (below), Golf Course News Builder of the Year honors.

THE ENVELOPE, PLEASE...

## Landscapes named GCN's Builder of the Year for 1995

By MARK LESLIE

LINCOLN, Neb. — The Perfect 10. No one has come so close to achieving it as did the 1995 Builder of the Year — Landscapes Unlimited, Inc.

In Golf Course News' annual survey of developers and architects, Landscapes, which lost the crown last year to Paul Clute & Associates, regained the title. In doing so, Landscapes averaged 9.72 on a 10-point scale in balloting of its 1995 clients — the highest average ever in the 7-year survey. Eleven clients, judging in the eight categories, gave Land-

scapes 10s in 70 of a possible 88 votes.

Wadsworth Golf Construction Co. of Plainfield, Ill., which won Best Builder the first three years of the survey before relinquishing the title to Landscapes in 1992 and 1993, finished second with an average of 9.25.

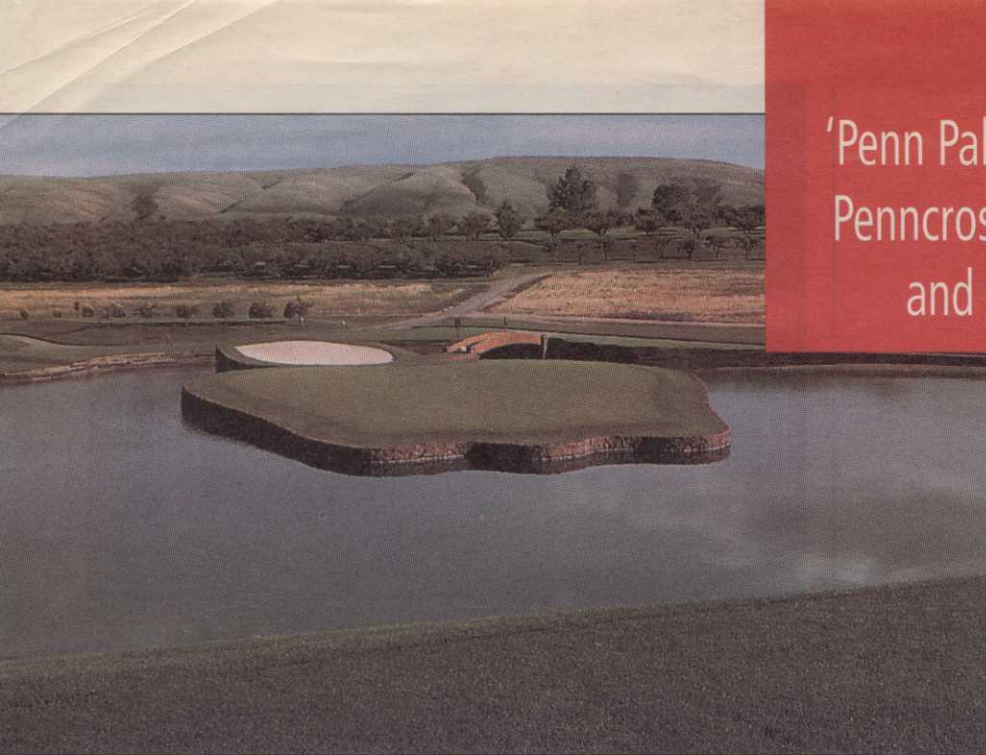
Following Landscapes and Wadsworth in the voting were, in order, Niebur Golf of Colorado Springs, Colo., with a 9.12 average; Clute of Hartland, Mich. (9.08); and Fairway Construction of Temecula, Calif. (8.74).

Continued on page 37

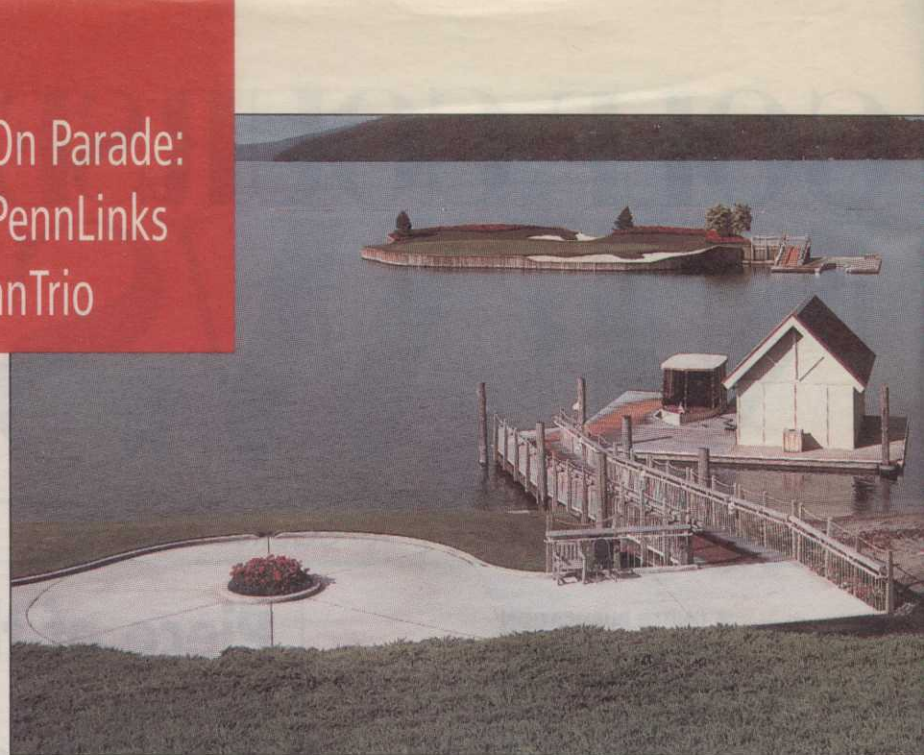


Phil Arnold photo





*PennTrio No. 17, Apple Tree GC, Yakima, WA*



*Penncross No. 14, Coeur D'Alene Resort, Coeur D'Alene, ID*

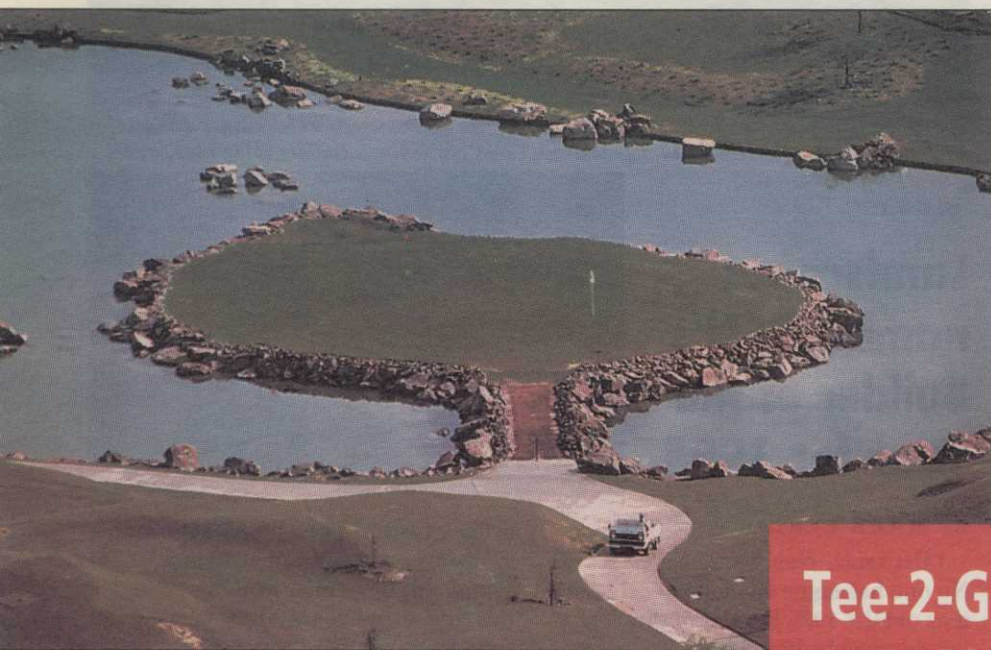
# *Tour the Islands with the 'Penn Pals'*

**I**sland putting greens are indeed a beautiful, yet intimidating, sight to behold with some very unique shapes and features. They're also meant to challenge golfers. Once a player has carried the water hazard and landed on the green, he should be rewarded for his efforts. That's why, in most cases, the putting surface is one of the 'Penn Pals'... icing on the cake, so to speak.

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## NEWS IN BRIEF

**DECATUR, Ga.** — Pinched by rising competition from nearby private golf clubs and shrinking public funds, DeKalb County is getting out of the golf business. The county is seeking bids from private contractors to see how they would go about privatizing the county's two courses, Sugar Creek and Mystery Valley. DeKalb is following the lead of other metro governments, such as Atlanta and Cobb County, which have turned over most operations of public golf courses to private companies.

**NORMAN, Okla.** — The \$4.4 million renovation and upgrade of the Oklahoma University GC is on schedule and the course is set to reopen in July. Golf Works Inc. of Austin has completed its phase of the golf course project, which started in February 1995. Bulldozers and tractors reshaped greens and rerouted some fairways. When finished, the course will have fully irrigated greens and fairways.

**DAYTONA BEACH, Fla.** — Golf course architect Robert C. Walker Inc. of Atlantic Beach is the designer behind an ambitious \$1 million renovation of the Municipal Golf Course (north course) here. The 18-hole layout has deteriorated in recent years and has been a major source of complaints. The city formed a Golf Course Advisory Board about two years ago.

## Golf still riding casino coattails

By HAL PHILLIPS

Golf development continues to benefit from the burgeoning gaming market, much of it administered by Indian tribes on reservations exempt from state and federal statutes.

As casinos of all types sprout up and expand in Connecticut, Mississippi, Nevada, Missouri and California, golf has proved a profitable ancillary component to gaming establishments intent on transforming themselves from mere bingo houses into diverse family-oriented, en-

tertainment centers.

Those casinos located on reservation land have proved even more accommodating to golf, as a tribe's sovereign-nation status frees golf developers from local, state and national environmental restrictions. Tribes also hold unfettered water rights on their reservations, making golf possible in arid climates like the American Southwest [GCN, July 1994].

"They've got land and they've got water. With the gambling element at play, it

Continued on page 68



## PALMER TEAMS WITH AGC

Hiddenbrooke Country Club in Vallejo, Calif., an Arnold Palmer signature course, opened for play Oct. 4. Owned by Tokyo-based Misawa Homes of America — one of Japan's premier house-builders — Hiddenbrooke is also the latest addition to the management portfolio at American Golf Country Clubs, a division of American Golf Corp. (AGC). For more AGC news, see page 81.

## WITHOUT RESERVATION?

What follows is a list of casino-related and Indian-related golf projects now under construction, in planning and being considered across the country.

- **Where:** Bay St. Louis, Miss.  
**Casino Magic!**  
**Architect:** Arnold Palmer/Ed Seay  
**Holes:** 18  
**Status:** Under construction
- **Where:** Pequot Nation Reservation, Ledyard, Conn.  
**Foxwoods Casino**  
**Architect:** Rees Jones/Robert Trent Jones Sr.  
**Holes:** 36  
**Status:** In planning
- **Where:** Chippewa Reservation, Watersmeet, Mo.  
**Lac Vieux Desert Band GC**  
**Architect:** Mattingly Kuehn Golf Design  
**Holes:** 9  
**Status:** In planning
- **Where:** Paiute Reservation, Las Vegas  
**Las Vegas Paiute Resort**  
**Architect:** Pete Dye  
**Holes:** 72  
**Status:** 18 completed, 18 under construction, 36 in planning
- **Where:** Stateline, Nev.  
**Primm Creek Golf Complex**  
**Architect:** Tom Fazio  
**Holes:** 36  
**Status:** 18 under construction, 18 in planning
- **Where:** Chataway Reservation, Philadelphia, Miss.  
**Dancing Rabbit Golf Club**  
**Architect:** Tom Fazio  
**Holes:** 18  
**Status:** Under construction
- **Where:** Golf Ranch Casino, Verdi, Nev.  
**Genoa Lakes**  
**Architect:** John Harbottle  
**Holes:** 18  
**Status:** Completed fall '95
- **Where:** Fort Mojave Reservation, Loughlin, Nev.  
**Project not yet named (managed by Southwest Golf)**  
**Architect:** Landmark  
**Holes:** 18  
**Status:** Under construction

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## Planners throw major roadblock at California 18-hole proposal

SAN JOSE, Calif. — A developer's plan to build an 18-hole golf course in the hills above Lexington Reservoir has suffered a major and possibly fatal setback.

The Santa Clara County Planning Commission recently voted unanimously against Los Gatos developer Pete Denevi's plan to build a private country club, restaurant, driving range and health club on 210 acres west of Highway 17 at Bear Creek Road.

The project was originally proposed for land across from the Alma Fire Station that was formerly owned by Alma College, a Jesuit seminary that closed in 1967.

Denevi has the option of appealing to the county board of supervisors. But his chances do not appear very promising. Not only did the planning commissioners deny Denevi's building permit request, they also refused to certify his environmental impact report, claiming that the report was inadequate.

The county planning commission's decision is the latest development in a long-running battle between Denevi and local environmental groups like the Sierra Club and Audubon Society.

The land at issue consists mostly of rolling meadows, oak trees and redwood groves and the proposed project became the

pre-eminent land-use battle in Santa Clara County in the past year. Environmental groups have been trying for 15 years to convert the land into a state park.

Denevi still has options to buy the land. The proposed golf course is only a small part of a larger parcel that totals about 1,100 acres. Stanley Ho, a Hong Kong casino developer and billionaire, bought the land in 1989 from the Jesuits.

## Arizona developer plans three more courses

TUCSON, Ariz. — Developer Conley Wolfswinkel has visions of building a golf mecca within the 8,000-acre master-planned residential community of Rancho Vistoso in Oro Valley, a 30-minute drive north of downtown Tucson.

The second and newest course at Rancho Vistoso, the Tom Weiskopf-designed Vistoso Highlands, opened in late December 1995. Wolfswinkel and his Vistoso Partners LLC plan three more 18-hole golf courses with the next one, the "Tortolita" or "Boulder" course, starting construction next August. That would

mean five golf courses in all.

Wolfswinkel said he is entertaining the idea of having a different golf course designer do each of the next three courses.

Rancho Vistoso's first course, in Del Webb's Sun City Vistoso, was designed by architect Greg Nash. Wolfswinkel is also negotiating to get top-level hotels like a 400- to 500-room Marriott and possibly a Ritz-Carlton to lodge the golfing tourists.

Rancho Vistoso is expected to have a residential population of about 10,000 when fully developed.



Wildcat Cliffs Country Club  
Highlands, NC



Forest Ridge Golf Club  
Broken Arrow, OK



The Standard Club  
Duluth, GA



Scioto Country Club  
Columbus, OH



Blackwolf Run  
Kohler, WI



Norwich Golf Course  
Norwich, CT



Atlanta Athletic Club  
Duluth, GA



Granite Bay Golf Club  
Granite Bay, CA

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Conway, SC



Willow Creek Golf Course  
High Point, NC



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Pinehurst, NC



Prairie Landing  
West Chicago, IL



The Plantation Golf & Country Club  
Venice, FL



Pequabuck Golf Club  
Pequabuck, CT



The Deerwood Club  
Kingwood, TX



Belle Meade Country Club  
Nashville, TN

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**K**A'UPULEHU, Hawaii — The new Jack Nicklaus-designed 18-hole championship course has opened for play at the Hualalai resort community on the Big Island's Kona-Kohala coast.

To build the course, Nicklaus turned an almost pure lava field into a stunning design by sculpting the solid pahehoe lava and crumbling lava into a visually dramatic, par-72 layout. The black lava is a stark contrast to the green fairways, white sand bunkers and blue ocean.

Nicklaus has designed three other courses in Hawaii. But

## Hawaiian lava beds form bedrock of new Nicklaus course

Hualalai is the first course where he faced the challenge of working entirely with lava. He said in a prepared release that he wanted to maintain the drama of the lava, but also keep the resort course generous for vacationing golfers.

"Every time I came out to see the project, we kept widening the landing area," Nicklaus said. "You want to keep the lava just out of play physically, but in play visually. It can be a great feature

visually, but it can also be a pretty stiff mental hazard. I don't care how far you push the lava, people are going to get into it."

The course, which opened in late January, is contoured with a 5-degree slope to the ocean and includes parts of the historic King's Trail, an ocean-side pedestrian highway for the pre-western Hawaiian natives that lived along the coast.

The 7,000-plus yard course starts and ends at a 14,000-square-

foot clubhouse that overlooks the ocean. The clubhouse is scheduled to be finished in September 1996 to coincide with the opening of the 243-room Four Seasons Resort. The 625-acre Hualalai resort complex will also have a sports club and spa and a range of homes, townhouses and villas.

With five-star accommodations and a Tour-quality golf course, The Hualalai Golf Club also opens with the distinction of being named the first PGA Tour Resort. As a result, the resort will be promoted by the PGA Tour and used as a destination for certain Tour functions.

## Latest plans unveiled for Oregon layout

**FLORENCE, Ore.** — Japanese investor Kenzo Ariki is reportedly crafting a new development plan for the prestigious Sandpines Golf Course and could begin construction at a 290-acre site in Florence next spring.

In October, Ariki won a year-long struggle in U.S. Bankruptcy Court in Eugene to take over ownership of the spectacular, windswept facility. The tract now holds the 170-acre Sandpines course and a handful of new homes. The previous owners had planned a clubhouse, hotel and as many as 350 single-family homes and condominiums.

Entrepreneurs Ellis Vandehey and Jack Roake bought the land and built the 18-hole course in the early 1990s, largely using \$9.3 million in loans from Ariki. But the pair buckled under the debt and sought bankruptcy shelter in 1994. A court-approved sale gave Ariki the project in lieu of an estimated \$14 million he was owed in principal and interest.



Lancaster Country Club  
Lancaster, PA



North Ridge Country Club  
Fair Oaks, CA



Barton Creek Club & Resort  
Austin, TX



Tumble Brook Country Club  
Bloomfield, CT



The Country Club of Birmingham  
Birmingham, AL



Royal Poinciana Golf Club  
Naples, FL



Governors Club  
Chapel Hill, NC



Bonita Bay Club  
Bonita Springs, FL

## Courses In America Rally 'Round Primo.



Four Seasons Resort & Club  
Irving, TX



Ellington Ridge Country Club  
Ellington, CT



Forsythe Country Club  
Winston-Salem, NC



Clinton Country Club  
Clinton, CT



Salem Country Club  
Peabody, MA



Quail West Golf & Country Club  
Naples, FL



Shady Oaks Country Club  
Fort Worth, TX



Troon Golf & Country Club  
Scottsdale, AZ

## Trevino design opens in Arizona

**TUCSON, Ariz.** — The 18-hole Torres Blancas Golf Club, designed by Lee Trevino, opened in December as the centerpiece of Santa Rita Springs, Green Valley's newest retirement community.

Almost 2,000 homes and possibly a hotel are planned for the 596-acre golfing community.

The course almost wasn't finished. Santa Rita Springs LLC, led by Dorn Builders, bought the property from Farmers Investment Co. in August 1994 after it was left unfinished by the bankrupt Roadhaven Resort in 1985. The Torres Blancas course also was left partly built.

Jon Fitch, general manager for Par for the Course LLC, which owns Torres Blancas, said the course will be golfer-friendly with generous landing areas off the tee and open fairways.

## HILTON TAKES OVER COLORADO RESORT

**DURANGO, Colo.** — Hilton Hotels has assumed management of the Tamarron resort and renamed it the Tamarron Hilton Resort. Arthur Hills designed the facility, which has been rated among the top 50 resort courses in the country by *Golf Digest*.

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## Las Vegas' Summerlin to get second TPC track

LAS VEGAS, Nev. — The master-planned community of Summerlin is already known for its landscaping, mountain desert views and national ranking as the country's best-selling master planned community. Now it's about to get a second Tournament Players Club (TPC) course.

A second, 18-hole daily-fee TPC facility is under construction south of the Summerlin Parkway in The Canyons. Bobby Weed designed the course with player Raymond Floyd. The

course will become the new home of the Las Vegas Senior Classic in spring 1997, following its completion next fall.

Summerlin is already home to Nevada's only TPC course. That layout is the site of two major PGA tournaments every year — the Las Vegas Invitational and the Las Vegas Senior Classic.

Weed designed Summerlin's new TPC course to be a natural extension of the desert.

Weed has nicknamed No. 14, a short par-4 nestled between

two 30-foot rock walls, the "Indiana Jones" hole because of its rugged appearance. Weed expects No. 14 to become the course's signature hole.

In keeping with the TPC concept, the course will incorporate stadium features and provide hubs for spectator viewing.

In addition to using state-of-the-art drip irrigation, the new course will feature only 90 to 100 acres of turf, as opposed to the 125 to 150 acres on a typical course.

## Milwaukee facility allows goose hunt

MILWAUKEE — Fed up with geese eating grass seed as soon as he could put it down, golf course owner Lloyd Robinson allowed 10 hunters on the Lake Park Golf Course each morning from September to December to fire away.

Robinson, like many course owners and superintendents, was frustrated with the geese and their hungry ways, not to mention their

droppings. The hunters, who needed a special permit from Germantown village officials, were required to be off the golf course by the time the first golfers teed off, usually around 7:30 a.m. This is the second year Robinson has allowed hunters on the course. The bag limit for geese in Minnesota is one per day from Sept. 23 and Oct. 8 and two per day after that until Dec. 17.

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## Course building exhibit displayed at Houston Hall

HOUSTON — An historical exhibit tracing the evolution of golf course construction in Texas will be on display at the Texas Golf Hall of Fame at the TPC at The Woodlands during the Shell Houston Open here in late April.

"Building Texas Courses ... Then and Now" will feature tools and equipment used over the years like the antique "fresno." Fresno's, or scrapers, were powered by mules and were the fore-runners of today's bulldozers. They were used to construct golf courses well into the 1930s at historic Texas courses like Memorial Park in Houston and the Colonial Country Club in Fort Worth. The exhibit will also highlight changes in the construction industry including laser measurement and computer-generated, three-dimensional drawings.

SAJO Construction of Richmond, Texas, has agreed to underwrite the cost of the exhibit.

## Texas municipal layout subjected to more review

LAKE JACKSON, Texas — A proposed 18-hole golf course is headed to Washington, D.C., for high-level scrutiny and debate.

A regional director of the U.S. Fish and Wildlife Service based in Albuquerque, N.M., recently sent a letter to the Army Corps of Engineers that elevated the permitting process for the proposed golf course to high-level officials in Washington.

Lake Jackson city officials have been fighting for four years to build a municipal 18-hole golf course in a hardwood forest that contains federally-protected wetlands. Environmentalists and wildlife officials want to save the land for migrating songbirds.

Lake Jackson appeared to have won its fight to build the course in November when the Corps of Engineers in Galveston, Texas, recommended issuing a permit. But the extended review could last up to 50 days.



## Ohio student receives Best Sand scholarship

CHARDON, Ohio—Donald Burnett, Jr., of The Ohio State University Agricultural Technical Institute (ATI) in Wooster, Ohio, has been awarded a one-year turfgrass management scholarship from the Best Sand Corp.

Burnett is pursuing a golf course superintendent career after working nearly 15 years in industrial sales and marketing. He returned to school in 1994 to study turfgrass management and plans to graduate next January.

Since starting school, Burnett has

worked on the crew at Barrington Country Club in Aurora, Ohio, and served as assistant superintendent at Fox Meadow Country Club in Medina, Ohio, and Rawiga Country Club in Beville, Ohio.

Best Sand, which supplies sand to courses throughout the U.S. and Canada, presents its scholarship each year to a turfgrass management student from either ATI, Ohio State University or Clark State Community College.

## Nine additional holes set to open at historic Indiana golf course

GARRETT, Ind. — One of the oldest golf courses in the Hoosier state will soon become one of the newest.

Richard and Sandra Sholl, owners of the Garrett Country Club, have expanded the longtime, nine-hole course to 18 holes. The Sholls plan to open the new holes by this summer.

The Garrett Country Club was born in 1917 when a group of local businessmen hired Tom Bendelow, a golf course architect from Chicago, to design a nine-hole course. Bendelow designed many courses

in the area during the period, including the Medinah Country Club in Chicago (1928), site of the 1990 U.S. Open.

Garrett's new 136-acre course was designed and built by Schrock Golf and Land Development Inc. of Angola. The construction project was designed so that play could continue on the existing course during the construction and turf-growing periods.

The addition will have four teeing areas on each hole with the course length varying from 4,900 to 6,600 yards.

## Plans to convert links into residences draw neighbors' wrath

EAGAN, Minn. — The future of the public, 18-hole Carriage Hills Golf Course is up in the air now that owner Bill Smith has announced he had an offer for the land from a national developer who wanted to replace the rolling fairways and sculpted greens with houses and condominiums.

Smith said Pulte Homes is interested in developing the land, a possibility that has outraged people living along the fairways.

Smith originally offered to sell the golf course to the city for \$5 million. But he then withdrew his offer as the city was in the midst of analyzing the possibility.

Any sale of the golf course would require city approval to change the use of the land to allow housing, according to city officials. Pulte has also made no formal application to the city yet.

Eagan Mayor Tom Egan has said that even if Carriage Hills were sold, the city intends to make sure that there is another 18-hole public course available to replace it. There are currently two other golf facilities in Eagan — privately-owned, 18-hole Parkview executive golf course and private, nine-hole Lost Spur Country Club.

## Facelift proposed at Memphis muni track

MEMPHIS, Tenn. — The Memphis Parks Commission has approved a \$2.2 million renovation proposal for the Gallopway Golf Course and clubhouse.

If approved by the City Council, the renovation would start a multi-year project revamp of all the city's golf courses. The Parks Commission also approved \$40,000 to plan renovations at the Fox Meadows Golf Course. It also included \$200,000 to start planning an upscale, 18-hole daily-fee layout at Riverside Golf Course, which is currently a nine-hole track.

Park Commission chairman John Malmo said the upgraded Riverside course could be the equal of Southwind, the nearby Tournament Players Club.

### LAFEVER REJOINS KEMPER AT PIPESTONE

MIAMISBURG, Ohio — John Lafever has rejoined Kemper Management Co. as general manager of city-owned Pipestone Golf Club and Mound Golf Course. He will be responsible for daily operations at the two facilities. Lafever previously served Kemper as club manager at the Golf Club of West Virginia in Parkersburg.



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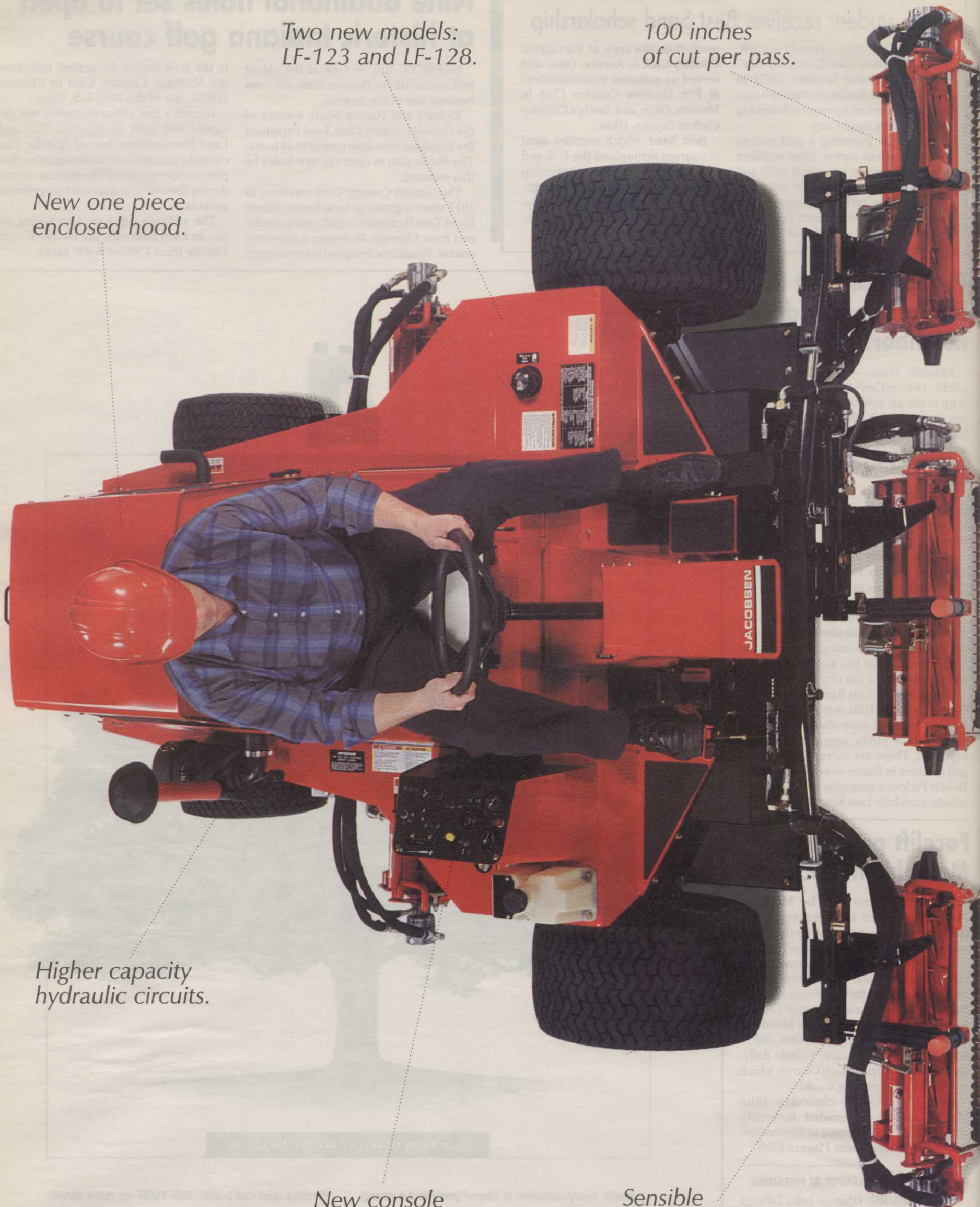
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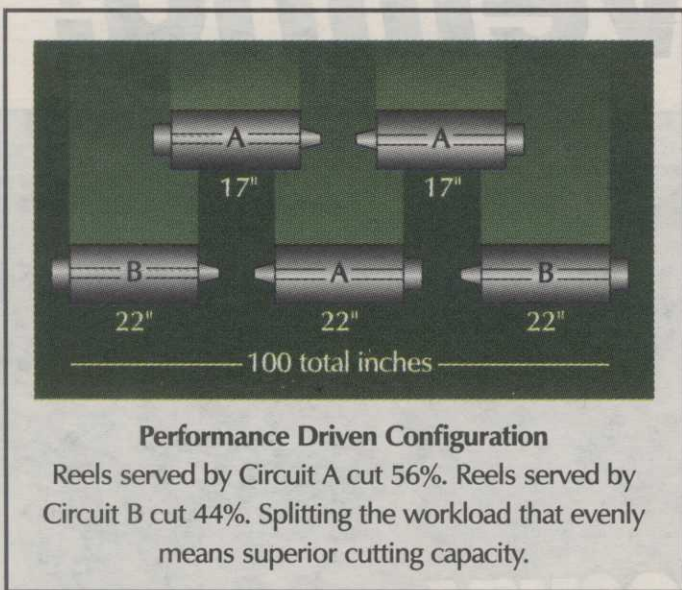
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**GREENLINKS BUYS SECOND  
TENNESSEE LAYOUT**

BRENTWOOD, Tenn. — Greenlinks Inc. has purchased Woodmont Contry Club (CC) and renamed it Old Natchez CC. Greenlinks has begun renovations to the clubhouse and course. Plans are to increase the club's 240 members by 200. This is Greenlinks second Middle Tennessee acquisition in the past two months, coming on the heels of its purchase of the Country Club of Franklin. Greenlinks is based in Brentwood. It has another Midwest club under contract.

**State approves first Nicklaus Tennessee state park layout**

CHATTANOOGA, Tenn. — The ambitious \$20 million proposal to build four Jack Nicklaus-signature courses across the state is moving ahead quickly after months of haggling.

The state's Building Commission recently cleared the way for construction of an 18-hole, Nicklaus design at Harrison Bay State Park. The decision enables Golf Services Group of Houston to begin work on the \$5 million course on 200 acres along Lake Chickamauga.

The Commission also approved construction of another 18-hole Nicklaus design for Wisemen Bend at Tims Ford State Park near Westminster.

State architect Mike Fitts said the courses

will be completed within three years. The other two Nicklaus-designed courses in the project are under construction already. They are at Cumberland Mountain and Chickasaw State Park.

Each of the courses will be championship-caliber, daily-fee courses with green fees expected to be around \$30, which is more than the fee at most courses in the state's parks.

According to project plans, the state will put up the \$20 million for construction of the four courses, and Golf Services Group, which will build and manage them, will repay the loan over 20 years.

**Ala. brothers  
design, build  
own course**

ATHENS, Ala. — Brothers Gary and Floyd Romine aren't listed in any directories of golf course architects.

That, however, didn't stop them from designing and building their own public, 18-hole golf course called Southern Gayles.

The Romines had no previous experience with golf course design or construction. Neither are even serious golfers. But, as owners of the 30-year-old Romine Construction Co, they do know a few things about building.

The Romines started construction on the 6,929-yard, par-72 course in July 1994 and Floyd Romine said they've been working 16 hours a day, seven days a week ever since. The course opened in December. Floyd Romine said there was no specific reason why he and his brother decided to build a golf course.

"It was just something I wanted to do," he told *The Huntsville (Ala.) Times*. "That, plus some people saying I didn't have enough sense to do it."

The Romines traveled around to several golf courses to learn more about golf course layouts. They also got help on their grassroots golf course project from their father, 80, mother, 76, and their sister. There are also plans for about 350 residential lots around the course.

Jerry Long, formerly course superintendent at Athens Country Club, became head superintendent in September.

**Art Hills design  
opens in Florida**

FORT LAUDERDALE, Fla. — The first of three distinct nine-hole layouts planned for the Arthur Hills-designed Addison's Reserve on South Palm Beach County's fabled Country Club Mile have opened for play with names of Biblical proportions.

The two recently-opened nines are called The Redemption and The Trepidation.

The Redemption serves as the front nine and is highlighted by a 186-yard, par-3 4th Hole that is quickly establishing itself as one of South Florida's most-memorable golf holes.

The Trepidation features a 446-yard, par-4 closing hole. There is also a 19th practice hole and driving range for use during the first-phase opening of Addison Reserve's golf course.

The third nine will be called The Salvation.

Addison Reserve is situated on the last prime spot of Country Club Mile — a row of world-class country clubs running from Glades Road to Linton Boulevard on Jog Road.

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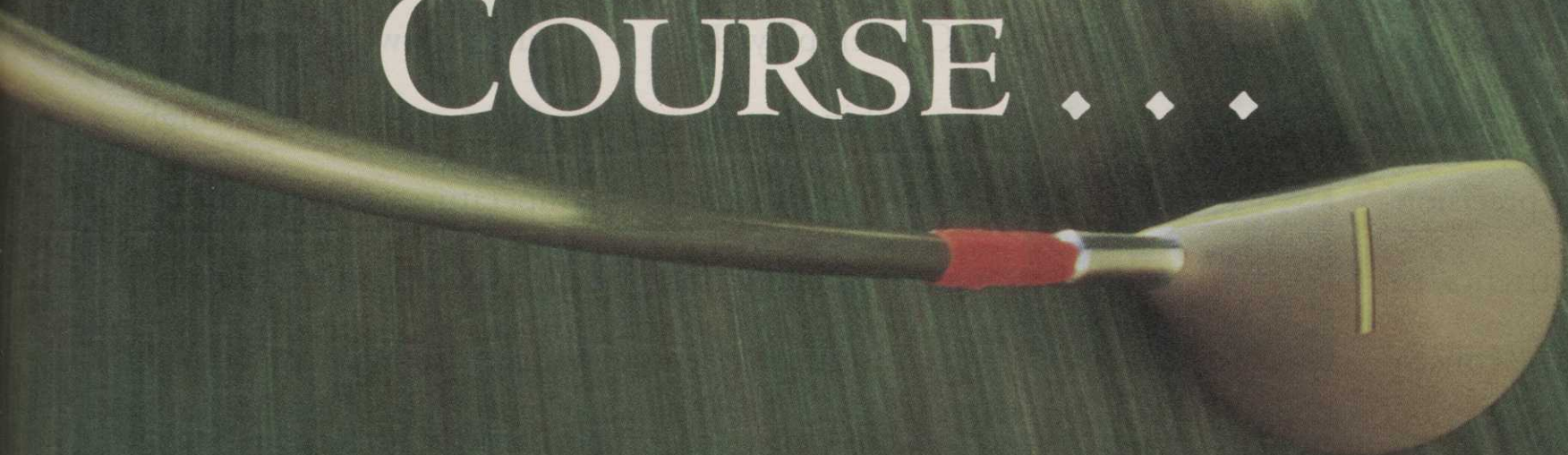
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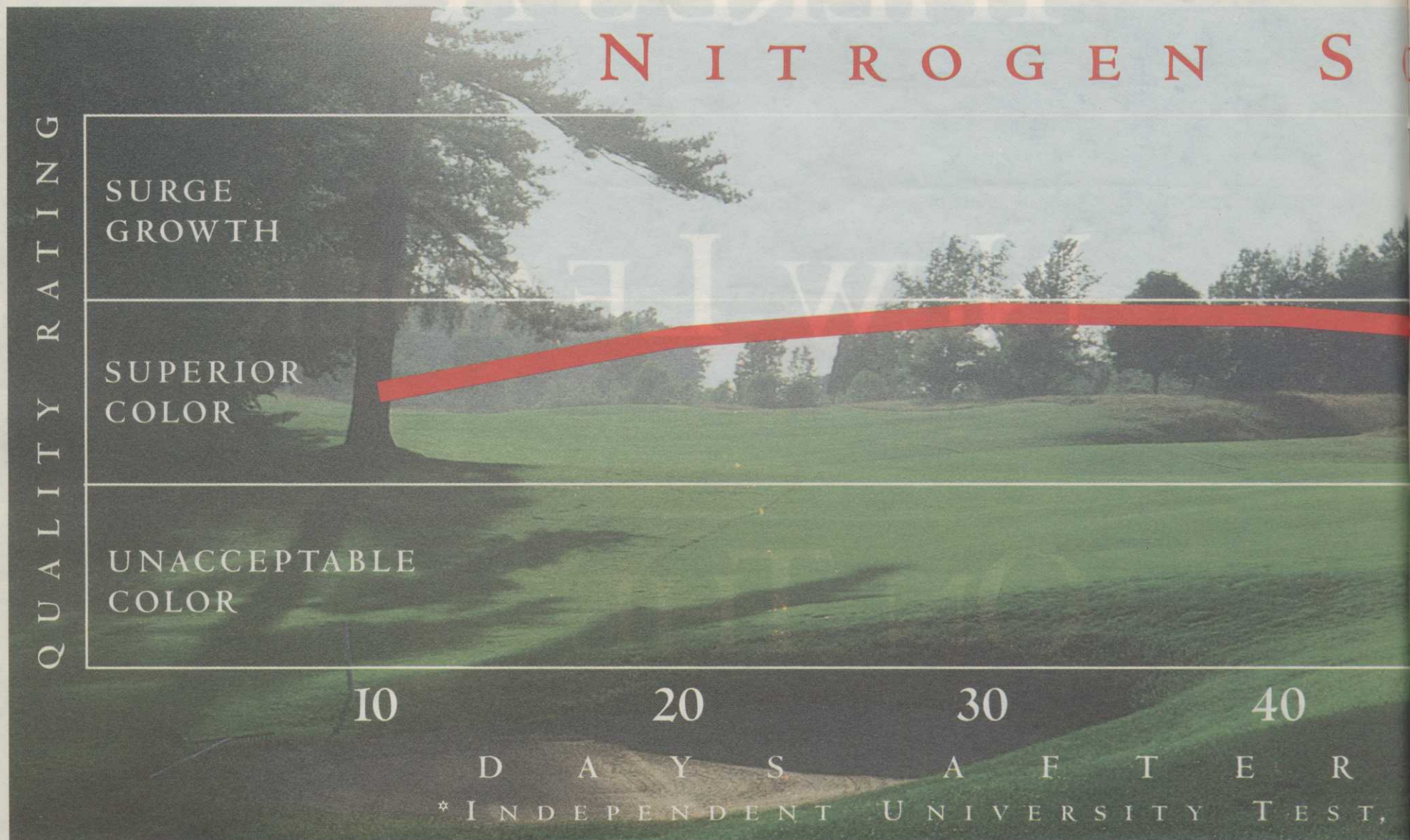
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## Florida man develops a maze-ing concept

NORTH PORT, Fla. — Charles Hamilton has figured out a way to make a miniature, putting golf course perpetually challenging, if not eternally frustrating and even a little spooky.

Hamilton, a sod farmer, is in the process of developing a putting course that will wind its way through a maze of 8-foot high viburnum hedges. There will be swinging gates within the maze to allow him to change the layout of the course every day. Hamilton has already secured a patent for the idea.

As if that's not enough, the patented course will also feature two fountains that players will have to duck under while playing and two fog machines that will blow a cooling mist around the maze that will temporarily disorient people lining up their putts.

Hamilton and his wife, Chris, recently opened the first phase of their \$500,000 Woodhaven Family Golf Center which will eventually include a lighted driving range, nine-hole pitch-and-putt course, and the unique miniature putting course in the maze.

## Methane leaks force closing of N.C. golf facility

CHARLOTTE, N.C. — High levels of methane gas have closed the clubhouse at Renaissance Golf Course indefinitely. The course is part of the city-owned park where a methane explosion seriously burned a woman in 1994.

The course had reopened hours after the November 1994 explosion on a neighboring recreational soccer field. A woman looking for a soccer ball in a hole near a light pole lit a pocket lighter and methane in the hole exploded. No dangerous methane levels were found at the course at that time. Renaissance Park, off Tyvola Road near the Charlotte Coliseum, sits atop an old landfill, which generates potentially explosive methane gas.

In late December, alarms sounded at the clubhouse indicating a buildup of methane gas. Methane readings inside the concrete block walls of the clubhouse reached five times higher than safety standards. Officials suspect a problem with a system outside the clubhouse that is supposed to capture and vent methane from the soil and into the air before it reaches the clubhouse.

American Golf Corp., which manages the course, has closed the facility until late summer for ongoing renovations. It's possible a temporary clubhouse may be built. The course's front nine holes had already been closed for grading repairs when the dangerous methane levels were found.

### CLUBCORP, SUDING TEAM TO WIN ENVIRONMENTAL AWARD

CORPUS CHRISTI, Texas — The team of Padre Isles Country Club and course superintendent Carl Suding are one of 19 U.S. merit winners for 1995 of the GCSAA fourth annual Environmental Steward Award. Created by Ciba-Geigy Chemicals and Rain Bird Golf, the award recognizes professionals whose efforts protect or enhance a golf course's environment and, ultimately, provides thousands of dollars to the GCSAA's Scholarship and Research fund. ClubCorp has overseen Padre Isles since 1994.

## Rain delays opening of NC course

GREENVILLE, N.C. — Weather delays have pushed the Ironwood golf course community's planned December 1995 grand opening back to at least this March.

Construction of Ironwood, which features an 18-hole Lee Trevino signature golf course and private clubhouse, is virtually finished.

Sodding work, which has been pushed back by the wet weather, is moving closer to completion, according to developers.

The overall Ironwood project on Highway 43 will include a private 18-hole golf course and community on the north side of the highway, as well as a separate, and as-yet-unnamed 18-hole public layout.

Construction of the public course will begin in the next few years on the south side of State Highway 43.

Ironwood officials have said they will allow public play on the private course until the public course is completed.

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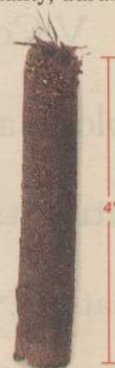
## The New Aercore™ Aerators Have Arrived

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## Hurdzan to renovate NY layout

ENDICOTT, N.Y. — Architect Mike Hurdzan's \$1.3 million in renovations to En-Joie Golf Club are expected to modernize the municipal course that hosts the B.C. Open every September.

The project — scheduled to start in September — will involve rebuilding and reshaping all 18 greens. Hurdzan plans to create faster, truer putting surfaces with subtle undulations that will require less fertilizers, pesticides and water.

All greens will be reshaped and enlarged. The dominant annual bluegrass, *Poa annua*, will be replaced with creeping bentgrass. Hurdzan will also be looking at bunker placement, tees and possibly additional spectator mounds. Greens will be reworked one nine at a time with the first set expected to be ready for May 1997 and the other nine the following May.

Hurdzan described En-Joie as a typical 1950s course. His intent is to make the course more strategic for Tour players and everyday golfers alike.

## Cornish and Silva add new partner

UXBRIDGE, Mass. — Architect Mark Mungeam has become a partner with designers Geoffrey Cornish and Brian Silva.

Mungeam is a graduate of Worcester (Mass.) Polytechnic Institute with a degree in civil/environmental engineering. He worked for a time for Prince Contracting Co. of Palmetto, Fla., and was construction superintendent at Silva-designed Ocean Edge Golf Club on Cape Cod.

Mungeam joined Cornish and Silva in 1987 and has been involved in many of the firm's projects including Shaker Hills Golf Club in Harvard, Mass., runner-up in *Golf Digest's* best new public course category in 1993. He became a member of the American Society of Golf Course Architects in 1994.

The company has been renamed Cornish, Silva and Mungeam.

## NY muni plans to dust off its Twain classic

ELMIRA, N.Y. — The Mark Twain Golf Course is an 18-hole Donald Ross design that has always been a secret gem tucked away in this small down-state New York city.

Now city officials are looking to spruce it up with a \$1.2 million master renovation plan, most of which is focused on buildings and facilities.

The long-term improvements designed by Hunt Engineers & Architects of Corning, N.Y., seek to elevate the stature of the course, which Ross designed in 1937, and surrounding buildings and grounds. The project would be broken down into three phases to be completed over six years.

The first phase would cost \$192,000 and would include a new golf cart storage building, resurfacing the parking lot, moving the course entrance, landscaping and improving locker and shower facilities.

Phase II would cost \$93,000 and include refurbishing the original clubhouse to make it the main entrance and reworking locker rooms and administrative offices.

The third and most expensive phase would cost \$913,000. The existing concession/lounge and pro shop would be demolished to provide an open view to the ninth, 18th and practice greens. A new two-story clubhouse with a bar/lounge, restaurant, banquet/meeting room, pro shop, locker rooms and kitchen would be built.

Meanwhile, a separate \$370,000 improvement project is included in the city's 1996 budget proposal.

That money would go to repairing the course's 30-year-old irrigation system at a cost of \$320,000 and reconstructing the 11th green for \$50,000. The putting surface on the 11th hole had partially collapsed and is almost unplayable.

The city hopes to issue bonds, which would be paid off through a 25-percent increase in membership fees, to pay for the improvements.

City and course officials have endorsed the financing plan although members have expressed displeasure with the proposal.

### AMERICAN GOLF RENAMES ARIZONA FACILITY

GILBERT, Ariz. — American Golf Corp.-managed Golf Club at El Dorado Lakes has been renamed Kokopelli Golf Resort, in honor of the acclaimed hump-backed Native American flute player in the Southwest. The Bill Phillips-designed layout is located minutes from Arizona State University.



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more forgiving, and easier to maintain. Plus, mounting geometry and "flexi-link" supporting arms ensure the tines stay perpendicular to the ground longer for a cleaner hole.

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Standard "flexi-link" supporting arm on both the Aercore 1000 and 1500 ensure a high-quality hole by helping keep tines perpendicular to the turf surface longer.





## And the winner is... Acushnet River Valley Golf Course

ACUSHNET, Mass. — And the new name for the new 18-hole public golf course to be built starting this year in the Acushnet River Valley is ... Acushnet River Valley Golf Course.

Local resident Michael Hanczaryk was the winner of the city Golf Course and Recreation Commission's contest to name the proposed new course, which has been designed by Cornish, Silva and Mungam golf course architects. As the winner, Hanczaryk will be one of the first to tee-off at the course when it's finished and he will get one free season of golf.

Hanczaryk was actually one of two entries that suggested the name Acushnet River Valley Golf Course. But, in keeping with the contest rules, Hanczaryk's entry — one of 80 — had the earlier postmark. The proposed 18-hole course would be built on 275 acres off Main Street between Hamlin and Leonard Streets. The Golf Course and Recreation Commission is now waiting for an archaeological study to be completed before construction can begin. The study will be done to determine if land where the course is to be located was once used by Native Americans.

## Carolinas Group opens one course with plans to soon unveil another

RALEIGH, N.C. — The Carolinas Golf Group recently opened the Oak Valley Golf Club in Advance, near Winston-Salem.

Stuart Frantz, president of the Carolinas Golf Group, which operates six golf courses in North Carolina, said the 18-hole semi-private, daily-fee course is already drawing rave reviews from professional and amateur players. The course was designed by Arnold Palmer.

The Carolinas group also has

great expectations for its Rees Jones-designed Currituck Golf Club on the Outer Banks, which it plans to open in July. The 18-hole course will be semi-private with memberships available only to residents of the resort development community.

Frantz has described the Currituck course as aesthetically spectacular. The site features thousands of live oaks, dunes, and subtly dramatic elevation changes.

## Airport layout set to take off in Mississippi

LAUREL, Miss. — Golfers will be able to tee it up at a brand-new 18-hole golf resort at the Hattiesburg-Laurel airport by July 1997.

The airport board recently granted final approval to the project, which will be built by Woodrow Reynolds and Sons of Waynesboro, a timber company with a golf division. Construction is expected to start this spring.

The new resort will include an 18-hole golf course and clubhouse. It will be located on a 172-acre tract behind the new Pine Belt Mental Healthcare facility, which is currently under construction. Later expansion plans call for an adjoining hotel and a golf school.

After completion, the course will be managed by Deerfield Golf, Inc., which runs a number of courses in Mississippi and Alabama.

## Pennsylvania ski area to add links

MERCERSBURG, Pa. — The Whitetail Ski Resort is looking to go year-round with golf as one of the key draws.

Whitetail officials recently announced they will build a \$10 million residential community of slope-side townhouses and condominiums where homeowners can ski from their doorsteps in winter and play golf in the summer.

The resort, which opened in December 1991 and sits atop Two Top Mountain, will build an 18-hole golf course that is expected to be open by spring 1998 in the valley across from the ski trails, according to Stephen K. Rice, president of Whitetail Ski Co. The course will be located on farmland owned by the resort.

Whitetail, located about 80 miles from downtown Baltimore, is the nation's newest ski resort and popular with residents of the Baltimore-Washington corridor.



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## NGF offers two new nine-hole facility surveys

JUPITER, Fla. — The National Golf Foundation is offering two sets of in-depth survey reports on nine-hole golf courses that are designed to help both operators and developers compare and assess their operational and financial profiles against respondents in their region.

One survey report focuses on public, nine-hole courses. The other focuses on private nine-hole operations.

Like similar survey reports it did four years ago on 18-hole golf courses, the NGF's nine-hole course reports are broken down by 21 separate revenue and expense line items under seven basic headings:

Revenues, e.g., green and cart rental fees, merchandise sales, food and beverage, range, annual dues, etc.

- Expenses, e.g., clubhouse payroll, maintenance payroll, irrigation, chemicals, merchandise, food and beverage, taxes and insurance.

- Net operating income, i.e., before taxes, debt service and depreciation.

- Capital Expenditures, i.e., amounts spent over the past five years on such items as golf cars, maintenance equipment, infrastructure improvements, etc.

- Key Operational Characteristics, e.g., total acreage maintained as a golf course, sources of irrigation water and average daily use for winter and summer months.

- Size and Composition, i.e., number of full-time, seasonal and part-time employees by job type.

The data for these reports is further broken out by sunbelt and frostbelt climate region.

Findings from NGF's nine-hole and 18-hole studies on daily-fee facilities show that — although smaller in scale in terms of revenue and rounds played — nine-hole, daily-fee courses experience similar operating margins based on the national median — 23 percent for nine-hole courses, 25 percent for 18-hole courses.

Copies of the nine-hole and 18-hole editions of "Operating and Financial Profiles of Golf Facilities in the U.S." can be obtained by calling NGF Information Services at 1-800-733-6006. The reports cost from \$50 to \$75 each for NGF members and \$100 to \$150 each for non-members.

### CORRECTION

Because of a reporting error, a piece of information appeared in January's page 3 story on course revenues ("New NGF report gives perspective to superintendents and owners"). The report, "Operating & Financial Performance Profiles of 18-hole Golf Facilities in the U.S.", is not free to NGF members. It retails to members for \$75 for the 18-hole daily-fee, municipal and private edition and \$50 for the 18-hole resort edition.

## Hilton Head's first course reopens after multimillion dollar renovation

HILTON HEAD ISLAND, S.C. — The Ocean Course at Sea Pines Plantation, the original 18-hole golf course here, is suddenly one of the newest and most sought out.

PGA Tour player and course architect Mark McCumber designed a \$3 million makeover for the semiprivate, daily-fee course that opened for play last fall.

McCumber's design created substantial fairway mounding and reshaping, more elevation changes to improve aesthetics and drainage, more and varied tee locations, a series of new, interconnected lagoons and U.S.G.A.-spec greens that average 6,300 square feet, at least a 1,000 square-foot increase in most cases over the old "pushed-up" style greens. The original Ocean Course was built in the late 1950s, when there were just a handful of vacation homes on the island.

One of more remarkable things about the makeover was the short time in which it was accomplished. Crews started tearing up the old course in December 1994. Sprigging was done in two stages in April and July 1995. The "new" Ocean Course opened back up for full play in September 1995.

"It was one of the fastest grow-ins I've ever been associated with," said Jim Cregan, head superintendent at the Ocean Course the past 3 1/2 years. "But we had ideal conditions with the heat and little rain. We had an aggressive fertilizer program and we had a lot of boys working out there."

One notable change is the reworked No. 15, a scenic par-3 that plays straight out to the Atlantic. No. 15 on the old Ocean Course was one of the most-memorable and most-photographed holes on the East Coast.

For the "new" No. 15 — which still plays to a demanding 190 yards from the Championship tees — McCumber elevated the tee area by more than 4 feet to create a gorgeous, more open view of the ocean. He also lowered the green structure to improve the view from the tee, added dune-style bunkers, thinned and removed existing vegetation which blocked ocean views and added new dunegrass plantings.

Another highlight is an expanded 10-acre practice area in front of the clubhouse that serves both the newer Sea Marsh Course and the Ocean Course. The range features five bunkered target greens, two full-sized practice greens, and an academy-style lesson tee at the far end of the range.

Crews also thinned many trees, which helped Cregan sustain healthy new Bermuda 419 fairways and Tifdwarf greens.

"There were four or five reasons why we rebuilt and quality of turf was one of them," said Cregan. "There have been so many courses built down here in the last 10 to 15 years that we were sort of getting passed over."

## Forecast opens golf range brokerage

RICHMOND, Va. — A new company, Forecast Golf Realty Inc., has been formed to act as a broker to sell golf ranges.

Forecast Golf Realty is teaming with Forecast Golf Group Inc. to provide the new service, known as the Range Exchange. Forecast Golf Group offers a variety of golf range products and services.

Forecast maintains a database of individuals interested in getting into the range busi-

ness and has accumulated a list of existing golf ranges nationwide. The newly formed company will tap into this information to secure listings and market facilities to potential buyers.

Lawrence Salesman is president and principal broker of Forecast Golf Realty Inc. Salesman is a graduate of the University of Richmond law school, a licensed real estate broker and AM appraiser.

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## Dual membership? Beware the hype

**N**ever accuse the Golf Course Superintendents Association of America (GCSAA) of sugar-coating. The latest example? An article appearing in the GCSAA's newsletter, *Newsline*, which attempts to answer the question posed by its headline; "Why a dual-membership requirement?"

The author, incoming association President Bruce Williams, says there are three groups of potential GCSAA members. The first group?

"Those who do not want to join, no matter what the cost," Williams writes. "These individuals have no interest in advancing their profession, and they are also true threats to our profession. Neither GCSAA nor the chapters should let these individuals direct our actions or efforts."

### Threats to our profession?

Geez, Bruce, that's a touch heavy-handed; especially when GCSAA has never offered its membership any opposing views — any cons to balance its chorus of pros — on the subject of a dual-membership requirement. Despite what you may have read about the September 1995 Chapter Delegates Meeting in Lawrence, there are members in good standing who oppose aspects of the membership bylaw change [see this month's guest commentary on opposite page].

Don't get me wrong: A dual-membership requirement — whereby superintendents would be required to join both their local chapters and GCSAA national, or neither — would definitely strengthen the superintendents' position in the golf universe. That's good. Superintendents have made great strides over the past 20 years and for that we can primarily thank GCSAA, which has done a creditable job promoting the profession as just that, a profession.

But make no mistake: The current "debate" (if we can call it that) over dual membership has nothing to do with cooperation and everything to do with power, a point about which the association makes no bones. You can't create a stronger GCSAA without diluting the power of affiliated chapters.

Individual chapters have specific needs more easily addressed on the local level. The proposed bylaw change would make it harder for smaller chapters to operate, which makes them anxious. For example, the new bylaw would impose a more structured formula on local chapters — not just regarding membership, but regarding who can serve as local chapter officers and board members.

These are not stumbling-block issues. They can be resolved. But it's unfortunate that GCSAA has not given a public voice to these concerns. It's more troubling the association has seen fit to label dissenters and those not interested in joining GCSAA as "threats to our profession."

### In case you missed it:

Architect Roger Rulewich has left Robert Trent Jones Sr. to form his own design firm, The Golf Group (TGG), based in Bernardston, Mass. [Because we received word just before the January issue went to press, the staff here was able to

Continued on page 22

## Letters

### USGA: A GOV'T AGENCY?

To the editor:

I'm confused. When I'm at a new golf course, I always see the course's rating up on the wall, as given by the United States Golf Association. However, when looking through my government manuals, I can never find the address for USGA.

My friends and business associates all contend the USGA is a governmental body, and do not like my differing with them. They say their course is rated in the top 25 by the USGA, and it probably is. But dare I say that it's a standard by which the association itself has invented and not some act of Congress? They get visibly perturbed and think I'm some kind of anti-government protester.

I'm just trying to make a point.

To confuse me further, though, my friend who works for the federal government wonders why, if the USGA is not a government agency, can it represent itself with the exact same seal and logo as the Great Seal of the United States? Good question. I think if you polled all of the active golfers in the United States, the vast majority would think the USGA is a governmental agency to where their tax dollars go. I am certain the rest of the golfing world outside America feels this way, as well.

Why am I so adamant about making the distinction that the USGA is not a governmental body? Because if my friends, business associates and the rest of the golfing world think it is, no wonder golf gets such a bad rap as a sport for the rich and

## Supers struggle to keep pace with technology, information

And so the Lord took the man and put him in the Garden of Eden "to work it and take care of it."

My, we've come a long way — from merely "taking care of it" to studying the effects of temperature on turf, leaf wetness duration and inoculum concentration on infection of annual bluegrass by *Colletotrichum graminicola*. Scientists say mankind's storehouse of knowledge has doubled in just the last four years. Just as that is happening in the world as a whole, so too is it occurring in the little realm of golf. While university researchers are delving into the mysteries of turfgrass and its care, the application of the knowledge we have is being spread globally. And this is being done by my pick for Heroes of the Year: American golf course superintendents and university agronomists.

Former Golf Course Superintendents Association of America (GCSAA) President Mel Lucas relates the leap in greenkeeping knowledge in Europe (where he often consults) to that between his dad's time as a greenkeeper and the 1990s. "Today, in Europe, they are at those [same] doorsteps," said Lucas, who is involved in projects in Austria and Hungary. Going from very little knowledge to "having all the great equipment that they have to work with now, it's mind-boggling for them. They're piling the last 70 years of advancement all into the first or second year of their infancy."

"With the computer age of irrigation and the marvelous hydraulics we have now, we're virtually seeing the greenkeeper of the teens and '20s being thrust into our generation of managing golf courses. It's exciting to make that all happen."

"The same thing is occurring in Mexico," said Dave Fleming, a certified golf course superintendent who is designing courses south of the border.

But, whereas many foreign superintendents are "frighteningly uneducated," Fleming added: "From 10 years ago to today, they've caught up 20 to 30 years of knowledge. And they'll do the same in the next 10 years. This information is getting to them at break-neck speed and they're getting better and better."

From the university researchers performing the scientific studies to the associations, companies and golfers funding these efforts; to the superintendents fine-tuning those findings by their field work; to those adventurers disseminating all that information to other nooks and crannies of the world — our hats go off.

...

Meanwhile, in the midst of this explosion of knowledge and technology, some of the old-time superintendents are being left behind. Many superintendents retire from their full-time positions but continue to keep a hand in the business by working on grounds crews or as mechanics.

"Unfortunately, there are those retiring superintendents who have found themselves to be unmarketable in today's high-tech golf world," said Richie Valentine, a turf consultant after four decades as superintendent at Merion Golf Club.

Also unfortunate is that retired superintendents often must stay

Continued on page 22



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editor



Mark Leslie,  
managing editor

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## Nicklaus: Public-access now driving the market, as golf comes full circle

By JACK NICKLAUS

Public golf. Somewhere along the 500-year history of our sport someone came up with that term to differentiate the game being played by the masses from that being enjoyed by the gentry. When you think about it, it's kind of a silly term, almost redundant.

After all, when the Scots invented the game they didn't do so behind the heavy oak doors of a private clubhouse. They did it on park land like St. Andrews which was public at the time of golf's birth and remains so today.

But somehow the glorious public golf of the 15th century, which we still celebrate in stately prints and paintings, was replaced by the public golf of the 20th century. Somewhere we traded in public golf for municipal golf which, when I was coming up, was a watered down version of the private game.

But as the 20th century has worn on several things have happened to enhance the public golf course market. First, private club membership has

*Jack Nicklaus is, well... he's Jack Nicklaus (if you don't know who he is, then maybe you should read another magazine). When not on tour or site, he lives in North Palm Beach, Fla., and Muirfield Village, Ohio.*

grown too expensive for many young families. And even if they did have the money, few young parents are willing or able to sacrifice the time required to get the maximum from a \$50,000 entrance fee, provided they are admitted in the first place. Subsequently, as the financial boom of the 1980s waned,

club applications declined, revenues dipped and banks became reluctant to lend money to private golf club projects.

Ironically, in the early 1990s — at about the same time banks were losing interest in expansive, extravagant private clubs — Americans happened

to be taking up the game in record numbers. This golf rush exposed a void between the upscale private clubs with their manicured fairways and hefty entrance fees and their ragged public counterparts charging \$8 a round.

The solution: Why not provide a higher-quality public golf experience at a proportionately higher daily-fee price?

That's exactly what's happening in public golf today. Now it's almost as though the public golf philosophy of the 15th century Scots has returned.

Today, as designers or developers, we're able to do golf courses which go beyond the \$6 and \$8 Dark Ages of

Continued on page 21



Jack Nicklaus

## Passing dual-membership bylaw may overburden certain chapters

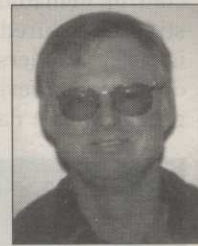
By MARK RUFF

The new affiliation agreement between the Golf Course Superintendents Association of America (GCSAA) and the individual affiliate chapters could present a dilemma for some of the small-in-member-numbers-but-geographically-large-in-area affiliates. Individual sections of the agreement may be difficult to achieve without placing a financial burden on a small chapter. Provisions requiring class A and B members to serve as officers could also place a manpower burden on the affiliates with smaller memberships.

The requirement that affiliate bylaws must be consistent with, but need not be limited to, the bylaws of GCSAA should not be difficult for the affiliates to conform with. But the financial impact of changing bylaws may cause dues increases for some affiliates.

The requirement that all officers

*Mark Ruff is head superintendent at Mountain Dell Golf Course in Salt Lake City, Utah, and president of the Intermountain Golf Course Superintendents Association, which includes members from Utah, Idaho, Wyoming and Nevada.*



Mark Ruff

be class A or B members may also be harder to attain for affiliates with fewer members. For example, my chapter has two appointed officers who serve as Secretary and Treasurer. They are both commercial members who donate their time to help serve the chapter. Neither has the right to vote on Board of

Director decisions. This is not a problem that cannot be overcome, but it may take time to find class A or B members willing to commit the time to do the job properly.

The requirements to incorporate and be tax exempt are logical and necessary to any business entity working

as the affiliates do. The requirements of submitting annual financial reports with copies of tax returns will also have some financial impact on the affiliates and may cause dues increases for some chapters. In addition to the financial impact, there was some concern at the chapter relations meeting in September that total disclosure of affiliate finances may be of concern for some affiliates.

The requirement for carrying insurance coverage for an affiliate's operation, activities and conduct to include but not be limited to premises, operations, property, personal injury, special events and directors and

Continued on page 21

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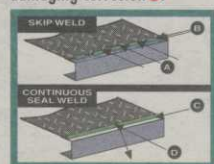


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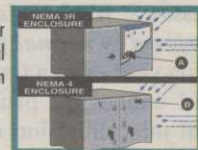


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# 1995: A year to remember (one to forget)

By JIM MOORE

When USGA Green Section agronomists gathered for our fall staff meeting, all agreed 1995 was one of the most difficult in many years, particularly when it came to bringing greens through the summer.

We learned much from the difficulties Nature threw our way so we should be better prepared for the next tough summer. As German philosopher G.C. Lichtenberg stated: "It is in the gift for employing all the vicissitudes of life to one's own advantage and to that of one's craft that a large part of genius consists." In other words, there are lessons to be learned from the difficulties we faced.

Following are some of the most important lessons superintendents should take with them into the new year.

*Lesson 1: Water management will make or break your greens.*

No aspect of greens management is more critical. Yet on many courses, individuals charged with hand watering greens are summer hires. Most have little experience and less dedication. They learn fast. Unfortunately what they seem to learn first is that if they really pour the water to a green they may not have to come back later.

We should not expect computerized irrigation systems to achieve good water management on their own. No system can be designed that accurately. For these reasons, many top superintendents revert to manual irrigation of their most troublesome greens for the balance of the summer. Truth is three or four well-trained and dedicated hand water folks can apply water more accurately than the best computerized systems.

*Lesson 2: Weak turf can be easily injured by normal practices.*

This year even a tiny mistake could cause big problems. A slight miscalibration of a piece of application equipment, or just a little too much overlap often led to serious injury. In most years, these small mistakes might have caused a little streaking. This year, they resulted in dead turf. Many superintendents also suffered painful reminders regarding the application of pesticides during bright sunlight and high heat. Often the carriers in pesticides can be mildly phytotoxic. On severely weak turf, mild can turn into extreme. Although the days may already be long, it is smart to wait to apply such products until evening or early-morning hours.

*Lesson 3: Nematode problems are best attacked before damage occurs.*

While nematode problems vary by region, in many parts of

the country these pests are growing more troublesome. Not only have we lost the use of the most powerful and persistent pesticides, some of those we still can use have been diluted in that the amount of active ingredient that can be applied has been reduced to much less effective rates. Combine this reduced ability to control nematodes with other stresses endured this year and it is easier to understand how some damage was inevitable. On those greens where damaging nema-

tode populations exist, treatment before severe damage occurs is more effective. This may mean a spring application of a nematicide. But nematicide applications alone seldom prove successful. Other stresses must also be reduced. A green that suffers limited light and/or air movement, is too small for the play it receives, or is improperly fertilized or watered, will suffer more severely from nematode injury.

*Lesson 4: Traffic management*

*should begin in the spring and continue through summer-before damage occurs.*

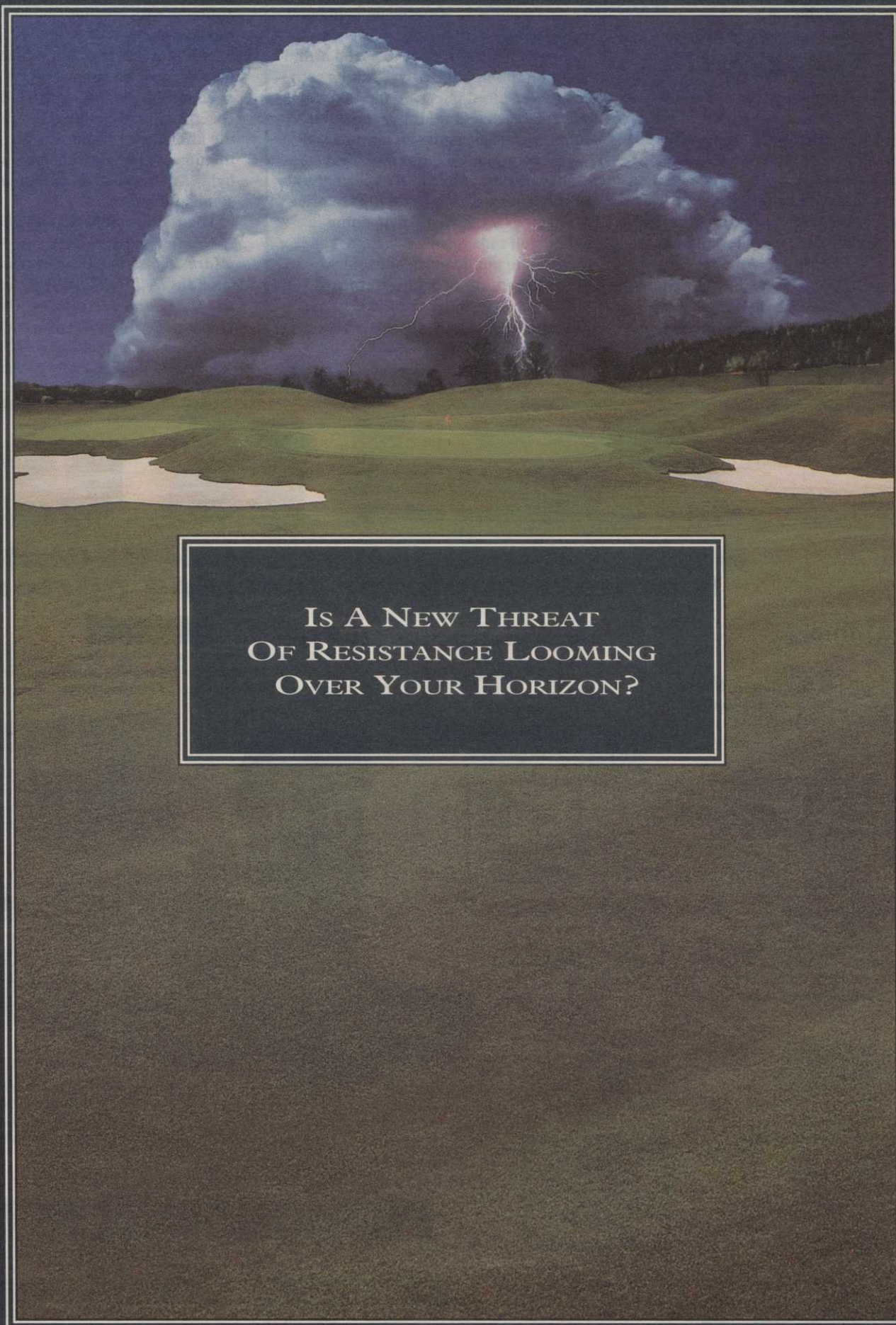
Every superintendent knows where golfers most often enter and exit greens. Every superintendent knows exactly which areas of the greens suffer the most during the summer. Not surprisingly, the two areas often coincide. What every superintendent does not do is divert traffic from concentrated areas before the turf is injured. Superintendents who instituted traffic-control measures before damage occurred fared better than those who waited until the turf was

damaged. It is very difficult to recover injured turf at the height of playing season. Take steps early in the spring to spread traffic over a larger area. There will be golfers who ignore your efforts and even some who remove ropes and signs. But if even half cooperate, you reduced traffic by the same amount.

*Lesson 5: Fungicides cannot always stop a disease organism from continuing to cause injury.*

One of the most dangerous misconceptions regarding fungicides to control disease is that if you just identify the organism

Continued on page 53



IS A NEW THREAT  
OF RESISTANCE LOOMING  
OVER YOUR HORIZON?

Jim Moore is director of the U.S. Golf Association Green Section, Mid-Continent Region.



## Nicklaus sees opportunity in public golf

Continued from page 19  
public golf.

Money's still as tight as it ever was. But we've learned that, as they do with most expenditures, public course golfers are insisting on value. Today's players will pay \$25, even \$200, to play a quality golf course — but only a quality golf course. For the less-frequent golfer, that adds up to a good deal. Even at \$200 a round, a golfer who plays 10 times a year only spends two thousand bucks compared to

the \$50,000 entry fee being charged across town.

This concept of bringing real value back to public golf means there's finally enough margin in the green fee to make public golf a financially viable business. That's why I now have more public golf course projects under development than at any time in my career.

This fall and rise of public golf has been a symbiotic boon to both course designers like myself and golf-starved players around the world. As design-

ers, we now have the freedom to do our very best work. Back in the days when the most a public-access course could charge was 8 bucks, developers and designers were handcuffed. The "muni courses" of back then could be identified by their bland, bunkerless lack of character.

Today a developer's *pro forma* figures in significantly more revenue per round. That translates into bigger design budgets, which result in more creative layouts which, in turn, result in more pleasing and profitable experiences — not

only for those of us in the golf course business but, more important, for our customers.

However, in order to maintain this win-win situation it's important to remember that, as terrific as the daily-fee or public golf course market has become, it's not private golf. It's a separate business with its own unique parameters.

No question, with the money available today we can build public golf courses as grand and as extravagant as most any private club. But we in the industry always have to be

mindful of who will play the course. It's tempting, with the popularity of public golf, to build public courses with all the accouterments of a private championship golf course, but we must keep in mind the public course player has different needs and interests from the private club member. It's the end user's expectations which should determine the final product. Who's going to play it?

Essentially these courses are going to be hosting a diverse talent pool and one which, by its presence at your course, has expressed its aversion to 6-hour rounds and exorbitant costs. We have to remember that these courses, while offering a challenge, should be a little easier to get around on and a little easier and cheaper to maintain. We're not putting in all the bells and whistles of an expensive golf course, but we are putting in good, solid, fun golf for people who are increasingly willing to pay a little bit more for it.

That's a good market to be in.

## Huff comment

Continued from page 21

officers liability, is a sound business practice. But, once again, it could place some affiliate chapters in a financial bind to pay for the premium. This could once again cause a dues increase.

Having a delegate attend the annual chapter relations meeting is an important step in keeping the affiliates in touch with the parent chapter. Any cost to the chapter is already a relatively small expense for the affiliate and is considered a reasonable cost.

The proposed bylaw change for GCSAA requiring dual membership in GCSAA and an affiliate chapter beginning in July 1997 does not affect any current membership unless a current affiliate drops its affiliation or a member changes job locations. If a current affiliate does drop its affiliation, current members would continue as GCSAA members, but would probably seek out a new affiliate to join. With the vast expanse geographically of the western U.S. it would be difficult to attend most meetings. Forming a new affiliate would be an option, but would be costly.

The new affiliation agreement has caused much discussion in our chapter board meetings. We have concluded that it is beneficial and we will apply to continue to be an affiliate chapter. Other affiliates may feel that circumstances dictate that they choose to drop their affiliation. The decision ultimately lies with the membership of the affiliate chapters.

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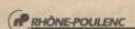
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CIRCLE #112/GCSAA BOOTH #1461



## Phillips comment

Continued from page 18

insert only a short story on the matter — see page 5 in last month's GCN].

As Rulewich is universally liked and respected, friends and colleagues in the golf industry wish him the best of luck, including the staff here at *Golf Course News*. But there's more than meets the eye here.

Considering Rulewich's departure and Mr. Jones' advanced age, what will become of Robert Trent Jones Co., one of the most storied —

if not the most storied — firms in the history of golf course architecture? Sons Bobby and Rees have gone to great lengths to establish their own design firms, not to mention their own identities. Many assumed Rulewich, the long-time lieutenant, would run the company when Mr. Jones was no longer in the picture.

Apparently, many assumed wrongly.

Further, because design associate John Harvey has accompanied Rulewich to TGG, the long-time RTJ headquarters in Montclair,

N.J., is now empty of architects. Sources inside the firm indicate that all current projects will be completed, but just who will handle new projects — if they will indeed solicit new projects — is unclear.

...

The synergy now generated between Indian tribes, casinos and golf is truly fascinating, as much for its apparent incongruity as its unqualified success [see story, page 3]. A troika of very different entities getting together to make money. I've been thinking: Because these casino courses

are often built on Indian reservations well south of the transition zone, shall we call this three-way cooperation "The Bermuda Triangle"?

...

**This just in:** The latest figures supplied by the National Golf Foundation (NGF) indicate that 465 new courses opened for play in 1995. Because all the statistics had yet to be compiled, last month we reported (rather tentatively, as it turned out) that '95 would yield "more than 400" new facilities. Well, 465 is certainly "more than 400."

Further, it's nearly 100 openings more than the previous record.

One sobering note before we all go skipping down the garden path: Taking into account all the 9-hole projects, the 465 figure works out to approximately 334 18-hole equivalents.

Of course, that's not particularly sobering, as there was a time when 334 openings — 9s and 18s combined — would have been cause for industry-wide delirium.

The NGF is sticking to its 500-plus projection for 1996, based on its data concerning course projects now under construction: 742 of 'em.

Incidentally, those figures are still a mystery to many GCN readers, even though we ran a chart detailing them last month [page 46]. Unfortunately, the colors were too dark, rendering them illegible. Here's the information again; more drab but legible:

New openings	9-hole	18-hole
Daily-fee	78	254
Municipal	13	51
Private	10	50
Expansions	9-hole	18-hole
Daily-fee	182	36
Municipal	21	4
Private	32	11

## Leslie comment

Continued from page 18

busy for financial as well as psychological reasons because they did not work under the same pay scales and benefits of today's supers.

...

One more insight from Valentine: "There is no tolerance for mistakes or failures on the courses today, and this has contributed to the loss of longevity of the superintendent. Retiring superintendents in the future will more than likely be leaving a position they have held for five years than one they have held for 25 years."

...

A few months ago, we reported on Perry Dye and Gary Player designing golf courses in Israel — Dye's project being on the west bank of the Jordan River. Now, Lindsay Ervin of Crofton, Md., is designing a course in Beirut, Lebanon. That's bombed-out, bereft Beirut!

These are cases where you'd want to wear a hard hat — and not because you're on a construction site.

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# Superintendents descend on Orlando



Did you know?... Orlando was originally named Jernigan, after an early South Georgia settler.

## Williams to assume GCSAA presidency at Feb. 10 meeting

ORLANDO — Bruce R. Williams has been nominated for the presidency of the Golf Course Superintendents Association of America (GCSAA).

The association's 1996 election of officers and directors is scheduled for Feb. 10, during its annual meeting at the GCSAA International Golf Course Conference and Show here.

Williams, the head superintendent at Bob O'Link Golf Club in Highland Park, Ill., currently serves as vice president.

The nominee for vice president is Paul S. McGinnis of Union Hills Country Club in Sun City, Ariz., the current secretary/treasurer.

The nominees for secretary/treasurer are Dave Fearis of Blue Hills Country Club in Kansas City, Mo., and George Renault III of Burning Tree Club in Bethesda, Md.

Vying for two director positions are Paul A. Dermott of Oakdale Golf & Country Club in Downsview, Ontario, Canada; Ken Mangum of Atlanta Athletic Club in Duluth, Ga.; Samuel Snyder VII of Hercules Country Club in Wilmington, Del.; Robert J. Tillemma of Sherwood Forest Golf Club in Sanger, Calif.; Michael Wallace of Hop Meadow Country Club in Simsbury, Conn.; and R. Scott Woodhead of Valley View Golf Club in Bozeman, Mont. Both Wallace and Woodhead currently serve on the GCSAA board of directors. GCSAA directors serve a two-year term.

Fearis and Renault each have one year remaining on their current terms as directors. In accordance with GCSAA bylaws, the incoming president will make an appointment to fill the director's seat vacated by the successful candidate for secretary/treasurer.

Continued on page 28



### THE CAT'S MEOW?

Architect Tom Fazio, winner of this year's Old Tom Morris Award, took the atmosphere of Disney World to heart when he designed the putting and chipping green at the Disney-owned Osprey Ridge course, located at Bonnet Creek Golf Club in Orlando. The Morris award is the highest honor bestowed by the Golf Course Superintendents Association of America (GCSAA). Fazio is only the second architect to earn the distinction — Robert Trent Jones Sr. was the first, back in 1987. Fazio will be formally feted Saturday night, Feb. 10, as part of the GCSAA Gala '96 celebration.

## INSIDE:

- Former GCSAA president to receive USGA Green Section Award... p. 26
- Wordsmith Dan Rackliffe earns Feser honors... p. 26
- The fruits of Preservation Committee labor are on display in Orlando... p. 28
- Comprehensive listing of conference sessions... p. 29
- Notre Dame football guru Lou Holtz (right) will keynote the opening session, Feb. 7, at 5:30 p.m.



## 'Trivial Pursuit: Central Florida Edition' or 'How to survive a cocktail party'

By PETER BLAIS

ORLANDO — You're at one of the many receptions that are so much a part of the International Conference and Show and you've exhausted the last interesting thing you have to say about dollar spot or reel grinders.

Your current conversational partner begins glancing about the room, searching for someone who might not have heard his spiel about the latest in nematode eradication.

But you sort of like this guy and have no interest in seeking out another name tag to talk to:

"Hey," you chirp, "you ever wonder why the luggage tag they put on your Orlando-bound suitcase at the airport reads MCO rather than ORL?"

Caught slightly off guard, your new friend and his drink whirl around and he says, "Well, now that you mention it...."

Trivia to the rescue. Alex Trebek has made a million dollars from little-known facts. You're entitled to use the same ploy to get through a supplier's party.

Here are a few Orlando/Orange County Convention & Visitors Bureau-supplied facts about our host city that, at the very least, should help you win the bar bet to see who has to wait in

### DID YOU KNOW?

Orlando is home to Tupperware Home Parties, which dedicated its headquarters here in 1951.

line to get the next drink.

- Orlando was named after Orlando Reeves, a soldier who was mortally wounded by a Seminole Indian's arrow while on sentinel duty. In fact, the area was originally called Jernigan, after a South Georgia rancher who settled here in 1843.

- Despite the seemingly endless orange and lemon groves around the city's perimeter, citrus is not native to America. It's believed the citrus trees found and cultivated by early settlers actually originated with the Spanish explorers who dropped the fruit as they wandered through the area in the early 16th century. At its peak in the 1950s, more than 80,000 acres were planted in citrus in Orange County.

- Orange County was originally named Mosquito County after the stinging insect some long-time Floridians still claim as the state bird. The name change occurred in 1845, well before the Visitors Bureau came into existence.

- The executives of the NBA's Orlando Magic ought to be playing Lotto every week. The Magic had a 1 in 6.6 chance of getting the first draft pick in the 1992 lottery. They won and came away with Shaquille O'Neal. A year later they were a longer shot — 66:1 —

Continued on page 28





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## Former GCSAA president Williams honored by USGA Green Section

FAR HILLS, N.J. — A "very, very pleasantly surprised" Bob Williams will receive the 1996 U.S. Golf Association Green Section Award during the Golf Course Superintendents of America Association (GCSAA) Conference in Orlando, Fla.

The retired golf course superintendent of the Bob O'Link Golf Club, in Highland Park, Ill., Williams is a former GCSAA president and still works in turfgrass consulting.

The USGA's annual honor recognizes persons for distinguished contributions to golf through work with turfgrass.

Williams' professional career began back in 1926 at just 12 years of age. That year, he became a student trainee at Bellaire Country Club, in Wauconda, Ill. By the time he turned 18 he was the club's superintendent. He remained in the post until he became assistant superintendent at Medinah Country Club in Chicago in 1938, then later at the Ohio State University (OSU) golf courses in 1941.

His stint at OSU was interrupted by World War II. Williams entered the Army as a private in 1942, and was discharged as a full captain in 1945 after service in the combat engineering corps in the European theater. After the war, he returned to OSU, then departed in 1947 to become superintendent at Beverly Coun-

try Club in Chicago.

Williams held that position until undertaking a similar role at Bob O'Link golf Club in 1958. He remained at Bob O'Link until his retirement in 1979, when he was succeeded by his son, Bruce.

Williams held leadership positions in local, state and national industry associations, culminating with election as GCSAA president in 1958. He implemented many innovations during his GCSAA tenure, including several promotional activities that led to wider

Bob Williams



recognition of the organization.

Williams also initiated innovations in the turfgrass field. Among these were design and construction of one of the first customized automatic irrigation systems at Bob O'Link; formula-

tion of one of the first three-nozzle, tractor-mounted boom sprayers for golf courses; service as teacher and mentor to more than 60 students and apprentice superintendents who have gone on to become professional leaders; and preparation and delivery of many articles and speeches around the world as a spokesman on behalf of golf course maintenance.

"Bob Williams truly exemplifies the spirit of the USGA Green Section Award," said current

GCSAA President Gary T. Grigg. "His lifetime contributions, particularly his commitment to professionalism, put him first among many you could consider for the 1996 award."

Williams' son Bruce, who assumes the GCSAA presidency in Orlando, said: "I realize that I am perhaps more than a little biased, but I, too, believe he [is] a very deserving recipient. As one of many young superintendents who learned at his feet, I can attest to his skills, his commitment, and his love for the game and the profession. He's also one heck of a dad."

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## Rackliffe earns Feser Award

ORLANDO — The 1996 Leo Feser Award will be presented to Dan E. Rackliffe of The Longshore Club Park in Westport, Conn., during the International Golf Course Conference and Show here.

The Golf Course Superintendents Association of America (GCSAA) presents the award annually, honoring the author of the best superintendent-written article published in the association's monthly magazine, *Golf Course Management* (GCM). GCSAA's Publications/Technical Resource Advisory Committee selects the article that it believes best serves the interests of golf course superintendents and the golf community.

In his article, "A long time coming," published in last April, Rackliffe described his struggle to replace the 19th-century maintenance "barn" with a new facility built for worker safety and environmental concerns. The article offered valuable advice for superintendents facing similar projects. "In fact," he wrote, "this project has been one of the most rewarding I have ever completed in my career."

GCSAA will honor Rackliffe during the Opening Session of the show on Feb. 7



## Environmental General Session

Continued from page 1

Miller has built a reputation for generating exciting, heated discussions on issues ranging from AIDS and health care to the ethical implications of finding a \$20 bill on the sidewalk. On Feb. 8, he'll turn his Socratic skills to the golf course industry and the environment at the GCSAA's Environmental General Session. The silver-haired professor will steer, prod and provoke a panel of golf course superintendents, turfgrass specialists, horticulture professors

and leaders of several environmental groups to explore the relationship between golf course maintenance and development and the environment.

Miller's presence at this year's Environmental General Session should be one of the highlights of the GCSAA's annual conference and show.

"I've seen him fill two and a half hours without anyone in the audience moving," said Cynthia Kelly, a GCSAA liaison speaking for Dave Searis, a certified superintendent from Blue Hills

Country Club in Kandas City, Mo. Searis chairs the GCSAA's Government Relations Committee which developed this year's program. "He won't let one person monopolize a discussion."

This year's Environmental General Session was moved to an evening slot, from 5:30 p.m. to 7:00 p.m. The idea was to give the scheduled 90-minute session a higher profile and a larger potential audience. It seems to have worked. More than 2,000 people have already signed up to attend the panel session on Feb. 8, at the Orange County Convention Center, according to the GCSAA.

Miller will use what is known as the Socratic method to get the diverse panel talking, which means the discussion should be spontaneous, unrehearsed and emotional. He will generate a scenario or scenarios — a developer wants to build a new 18-hole golf course on land that includes sensitive wetlands, for example — and let the panelists go at it.

"We're looking for things that are interesting and controversial," said Searis of the GCSAA. "We don't want to just have our members preaching things that people want to hear. We want to

hear the other sides. We want to educate superintendents about what other people are thinking. The whole idea is that superintendents are able to take back information from these conferences to help them deal with real-life situations on their own golf courses."

Miller will be working with a panel that features a healthy cross-section of interests and opinions about golf courses and the environment. Veteran, certified superintendents like Tim Hiers of Collier's Reserve in Naples, Fla., and Peter Leuzinger of The Ivanhoe Club in Mundelin, Ill., will share a stage with Mark Massara of the Sierra Club, horticulture professor Frank Rossi of the University of Wisconsin-Madison, a representative of a chemical company, Curt Spaulding of the Rhode Island-based Save the Bay organization, and Todd Miller of the North Carolina Coastal Federation.

Is there hope for better understanding and more agreement between the golf course industry and environmental groups? In a way that will satisfy the interests of both?

"I think the golf and environmental process is making some constructive inroads," said Spaulding of Save the Bay. "So I think the dialogue, so far, has been instructive. Do I think there's been a significant change in the field, so that golf course developers and clubs have changed practices based on this dialogue and education? No, I don't think we've accomplished that yet."

Rossi has been outspoken about pesticide use in the turf industry. He's currently working with fellow panelist Pam Porter of the Wisconsin Environmental Decade on a grant program to eliminate lawn care pesticide use in the Great Lakes Basin. Rossi said he thinks some superintendents have become more sensitive to the use and handling of pesticides in the past several years. But he said there is still much more that can be done on issues like chemical pesticide mixing, loading, re-entry and exposure.

"I don't think the golf course industry or superintendents have communicated their message very well," Rossi said. "Golfers know very little about a golf course's affect on the environment."

"And when we had a summer like the one we just had in the midwest with no rain and extended heat, everything goes out the window with these guys [superintendents]."

Rossi said he wishes a golfer, maybe even a professional tour golfer, were on the panel also.

"I don't know exactly where Arthur Miller is going to take this," said Rossi. "He's a very complex guy and I'm sure he's going to challenge all of us. My hope is that he's going to do his homework."



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## Work of Historical Preservation Committee on display in Orlando

FAR HILLS, N.J. — The Historical Preservation Committee of the Golf Course Superintendents Association of America (GCSAA) has developed recommendations aimed at bringing continuity and permanence to GCSAA's historical preservation initiative.

Meeting at the headquarters of the United States Golf Association (USGA) here this winter, the committee also reviewed tasks completed in the past year. Since the group last met in October 1994, its status changed from resource group to an official GCSAA standing committee. This

change will create stability for the continuance of the group. Also in the past year, the Historical Preservation Committee:

- Established a historical display at GCSAA's 66th International Golf Course conference & Show in San Francisco.
- Videotaped interviews with key senior members of the association.
- Hired a librarian/archivist.
- Archived all copies of Golf Course Management magazine and its predecessors.
- Documented the historical items stored at GCSAA headquarters in Lawrence, Kan.

- Began a book on the history of the association.

- Introduced industry partners and manufacturers to the historical preservation initiative.

Ties with the USGA were strengthened with regard to preserving the common history of both associations.

Taken under consideration by the committee were the ideas of developing articles of incorporation, creating a more detailed strategic plan and committee standard operating procedure and increasing funding allocations through the budget.

## Orlando Trivia: Cocktail fodder

Continued from page 23

to get the top pick. They won again and, after making a deal with the Golden State Warriors who desperately wanted Chris Weber, ended up with stellar point guard Anfernee Hardaway. Sometimes it's better to be lucky than good.

- Tupperware Home Parties dedicated its first headquarters on 1,100 acres here in 1951.

Church Street Station is Florida's fifth-largest tourist attraction.

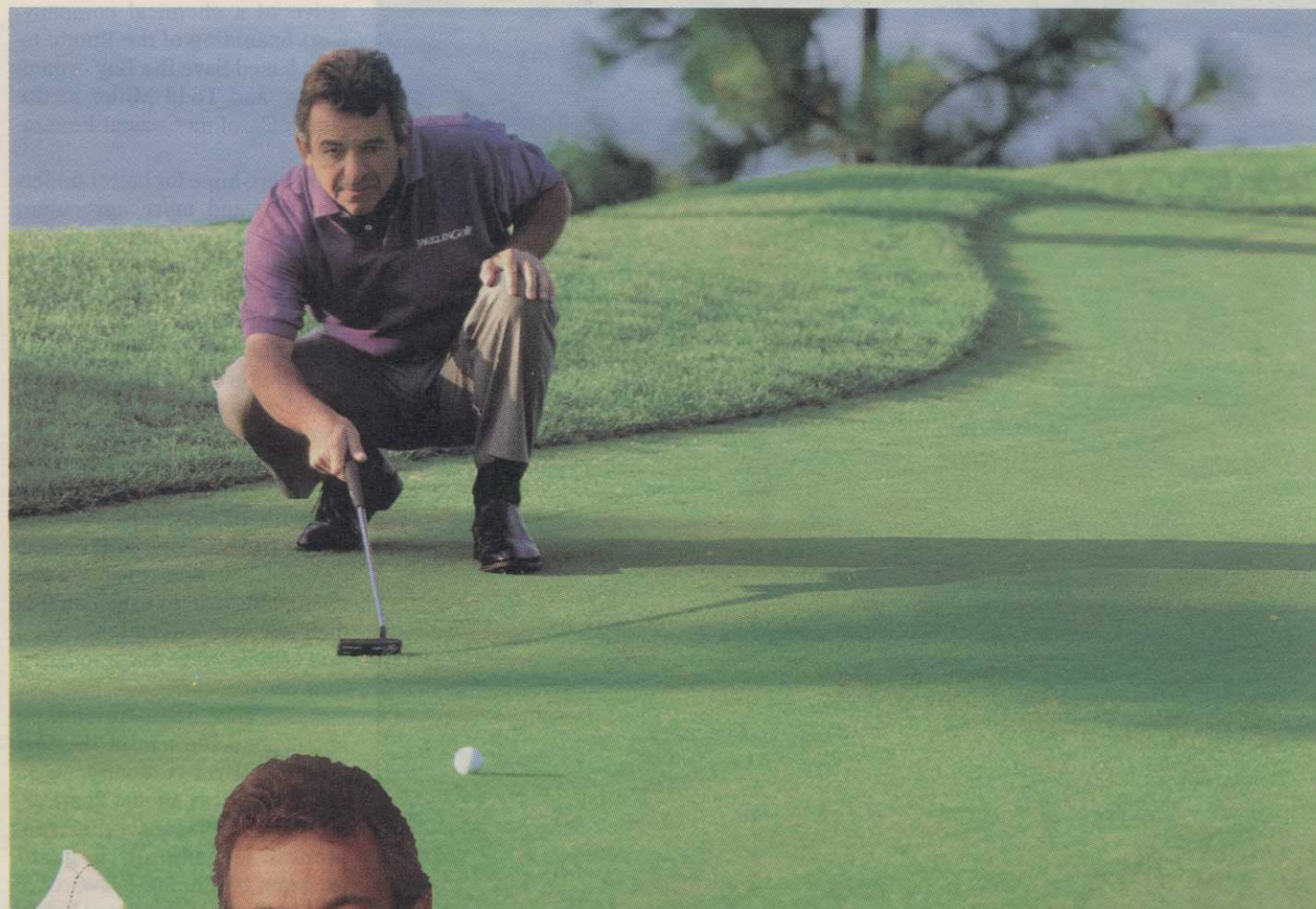
- On May 3, 1965, the first land purchases that would later become Walt Disney World included one for 8,380 acres of swamp and brush from Sen. Ira Benson. The cost was \$107 per acre. Disney opened in October 1971. Its 27,000 acres make it twice the size of Manhattan and cost Walt Disney a total of \$5 million. Pretty shrewd for a cartoonist.

- Orlando was unintentionally ahead of the curve when it came to voting rights. The city's first female voter was a woman who pretended to be a man all her life. The truth wasn't discovered until her death in 1914.

- In the past three months, Orlando has hosted Golf Course Expo, PGA Merchandise Show and the GCSAA International Conference and Show. Had enough? Do you think you won't be coming back here for awhile? Think again. More than 80 percent of Orlando's tourists return within three to five years.

- And lest we forget, until 15 years ago, Orlando's airport was a renovated facility at the end of McCoy Air Force Base, thus the MCO on your airline luggage tag.

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CIRCLE #116/GCSAA BOOTH #4167

## GCSAA officers

Continued from page 23

GCSAA's current president, Gary T. Grigg of Royal Poinciana Golf Club in Naples, Fla., will continue to serve on the board of directors for one year as immediate past president.

Joseph G. Baidy of Aca-cia Country Club in Lyndhurst, Ohio, whose one-year term as immediate past president expires, will end seven years' service on the GCSAA board.

Board member Tommy D. Witt of Wynstone Golf Club in North Barrington, Ill., has one year remaining on his current term.

GCSAA's International Golf Course Conference and Show will be held Feb. 5-11 at the Orange County Convention Center.

Tony Jacklin is the winner of 14 PGA European Tour events (including the 1969 British Open) and 11 other international events (including the 1970 U.S. Open). Tony is also a four-time European Ryder Cup captain, and can be seen on the Senior PGA Tour.



## PRE-CONFERENCE SEMINARS

## MONDAY Feb. 5

- Developing Your Hazard Communication Program (.7)
- Irrigation Efficiency (.7)
- Irrigation Water Quality (.7)
- Maximizing Turfgrass Disease Control (.7)
- Turfgrass Stress Management (.7)
- Wetlands and Golf Courses (.7)

## MONDAY, Feb. 5 &amp; TUESDAY, Feb. 6

- Basic Principles of Turfgrass Management (1.4)
- Design, Construction and Renovation for 1PM (1.4)
- Golf Course Restoration, Renovation and Construction Projects (1.4)
- Introduction to Integrated Pest Management (1.4)
- Irrigation Part I: System Component Technology (1.4)
- Managerial Productivity (1.4)
- Plant Nutrition and Fertilizers (1.4)
- Public Relations and Presentation Skills (1.4)
- Turfgrass Identification and Utilization (1.4)
- Weed Control (1.4)
- Writing IPM and Environmental Monitoring Programs for Golf Courses (1.4)

## TUESDAY, Feb. 6

- Budgeting and Forecasting (.7)
- Classic Golf Courses and the Master Architects (.35)
- Employee Safety Training (.7)
- Irrigation Scheduling Techniques (.7)
- Options & Their Applications in Pest Management (.7)
- The Superintendent as Grow-In Manager (.7)
- USGA Intermediate Rules of Golf (.7)

## WEDNESDAY, Feb. 7

- Certification Exam Study Guidelines
- The Challenge of Owning a Golf Course (.7)
- Guest Architect Seminar (.35)
- Maximizing Job Satisfaction (.7)
- Personal Stress Management (.7)
- Reclaimed Water Irrigation (.7)
- Scouting, Sampling & Monitoring Golf Course Pests (.7)
- Turfgrass Ecology (.7)
- Turfgrass Stress Management (.7)
- USGA Golf Course Rating System (.7)

## WEDNESDAY, Feb. 7 &amp; THURSDAY, Feb. 8

- The Assistant Superintendent: Managing People & Jobs (1.4)
- Basic Turfgrass Botany and Physiology (1.4)
- Business Communication and Assertiveness Techniques (1.4)
- Disease Identification and Control (1.4)
- Environmental Considerations in Golf Course Management (1.4)
- Course Construction Techniques & Management (1.4)
- Course Design Principles (1.4)
- Restoration, Renovation & Construction Projects (1.4)
- Golf Greens: History, Theory, Construction and Maintenance (1.4)
- Introduction to Soil Science (1.4)
- Irrigation Part II: System Design, Operations and Management (1.4)
- Plant Health Care and Pest Management for Golf Course Trees and Shrubs (1.4)
- Plant Nutrition and Fertilizers (1.4)
- Planting Design for the Golf Course (1.4)
- Preconstruction and Construction Management (1.4)
- Protection of Water Resources (1.4)
- Spanish for Golf Course Management (1.4)
- Turfgrass Insects: Basic & Advanced Principles (1.4)
- Writing Successfully for Business & Publications (1.4)

## THURSDAY, Feb. 8

- Calculations and Practical Mathematics for Use in golf Course Management (.7)
- Drainage Systems (.35)
- Financial Management (.7)
- Golf Course Safety, Security & Risk Management (.7)
- Human Resource Management (.7)
- Lake and Aquatic Plant Management (.7)
- Managing Organic Wastes (.35)
- Maximizing Turfgrass Disease Control (.7)
- The Microbiology of Turfgrass Soils (.7)
- Negotiating (.7)
- Practical Tree Management (.7)
- Wildlife Management and Habitat Conservation (.7)
- Turfgrass Tour (.35)

## FRIDAY, Feb. 9

- Compact Diesel Engine Seminar (.35)

## SATURDAY, Feb. 10

- Sprayer Calibration Seminar (.35)
- Irrigation Pipe Repair & Fitting Selection Seminar (.35)

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SESSIONS

## FRIDAY, Feb. 9

- 6:45 a.m.
- Innovative Superintendent Part I
- 7:00 a.m.
- From Superintendent to Director of Golf
- 7:15 a.m.
- Turf Students-The Superintendent's Obligation
- 7:30 a.m.
- Combating the Effects of Nematodes Using Root Stimulators
- 7:45 a.m.
- A Common-Sense Approach to Personnel management
- 8:00 a.m.
- Bentgrass Collar Renovation
- 8:15 a.m.
- How We Developed a Five-Year Improvement Plan

## SATURDAY, Feb. 10

- 6:45 a.m.
- Innovative Superintendent Part II
- 7:00 a.m.
- Bunkers without Washouts Scott Urbantke
- 7:15 a.m.
- Developing and Maintaining and Environmentally Sensitive Course
- 7:30 a.m.
- Re-establishing Greens After Severe Crown Hydration: A Video Presentation
- 7:45 a.m.
- The Superintendent as the Owner
- 8:00 a.m.
- What To Do When You Get Fired
- 8:15 a.m.
- The "Green Team" on the Courses of Lincoln

## SPECIAL FOCUS EVENTS

## FRIDAY, Feb. 9

## Equipment Technicians Forum

- 1:00 - 4:00 p.m.
- Chairperson: Jon Maddern, CGCS
- Hydrostatic Transmissions
- Future Developments in Hydraulic Systems
- How To Set Up and Maintain an Effective
- Electrical System Troubleshooting
- Golf Course Decision-Makers Forum**
- 1:00 - 4:00 p.m.
- Chairperson: Randy Russell
- Golf Course Management: Achieving Peak Quality and Management
- Thomas R. Maloney, Senior Extension Associate
- Cornell University
- Robert A. Milligan, Ph.D., Professor, Cornell University

## SATURDAY, Feb. 10

- 9:00 - 12 noon
- **American Society of Golf Course Architects Session** "Celebrating 50 Years of Golf Course Architecture"
- Moderator: Jeff Braver, ASGCA President
- **American Zoysiagrass Association: Zoysiagrass Forum**
- 9:00 - 12:00 noon
- Denis J. Barron, CGCS, Missouri Bluffs Golf Club, St. Charles, Missouri
- **The Society of Golf Appraisers Session**
- 9:00 - 12:00 noon
- "How Golf Course Maintenance Translates to Increased Owner Equity"
- **Audubon Cooperative Sanctuary Program Certification Workshop**
- 1:00 - 5:00 p.m.
- Chairperson: Kimberly Erusha, Ph.D.
- Program Overview
- Jean Mackay, Education Director, Audubon Society of New York State
- The following individuals will share their certification project experiences:
- Peter Salinetti, CGCS, Schuyler Meadows Club
- Loudonville, NY

## CONCURRENT EDUCATION SESSIONS

## FRIDAY, Feb. 9

## Poa: Wanted Dead or Alive

9 a.m.

- Poa Annua

9:45 a.m.

- It's What We Do

10:15 a.m.

- Vargas on Poa: It Ain't No Hound Dog

10:45 a.m.

- Getting to the Root of the Problem

11:15 a.m.

- Living and Dying with Poa Annua-One Man's Experience

## SUNDAY, Feb. 11

## Poa: Wanted Dead or Alive

9:00 a.m.

- Managing Poa in Warm-Season Turfgrass

9:30 a.m.

- Biological Controls-Do They Work?

10:00 a.m.

- Comparing Bentgrasses for Poa Invasion

10:30 a.m.

- PGR Poa Suppression During Bentgrass

11:00 a.m.

- Conversion of Poa Fairways to Bent: A Comprehensive Approach

## Grow-In Pains

- Making the Decision

- Quality Control: Are Your Greens Built with What They Should Be?

- Determining Optimum Bentgrass Seeding Rates

- How Fast Do You Want Grass?

- Cultivating the Final Product

- Moss: When the Rolling Stone Stops

- What's the Dirt on Washed Sod

- Managing Cutworms, Sod Webworms and Birds on Greens

- Maintaining Trees for the Life of Your Course

- Integrated Strategies for Brown Patch Management

## Identity Crisis

- Crisis, What Crisis?

- Imagine an Image

- No News Is Bad News

- When the World Comes to Your Door

- It's Up to You

## Southern Living

- Bentgrass Summer Stress Survival

- Let the Grass Control the Pests - Pest Resistance

- Seeded Bermudagrass Performance

- Utilizing Reduced Herbicide Rates for Weed Control

- Managing Mole Crickets and the Environment

- Darren Davis, Old Florida Golf Club, Naples, FL
- Catherine Waterhouse, Robert Trent Jones Golf Club Gainesville, VA
- Lawrence J. Pakkala, CGCS, Woodway Country Club, Darien, CT
- Michael V. Giuffre, Tournament Players Club of Michigan, Dearborn, MI
- (At 4:00 p.m., GCSAA and the Audubon Society of New York will team up to introduce the new GCSAA-sponsored Audubon Cooperative Sanctuary Program for Schools.)

## Employment Security Forum

## • Part 1: Promoting Your Worth To Get What You're Worth

1-4 p.m.

Chairperson: John Piersol

The following presentations provide you with ideas and tools to enhance and promote your value to your employer.

- Securing Your Success in Business
- John Gilbert, Bernstein-Rein Advertising, Kansas City, MO
- Improving Your Value as a Golf Course Superintendent
- Tommy D. Witt, CGCS
- Wynstone Golf Club
- North Barrington, IL

## Part II: Negotiations in Action

Watch several actual negotiations between GCSAA member superintendents and employers (roles played by professional negotiators and industry leaders). You'll get an understanding of the techniques you need to negotiate a fair and attractive compensation and benefits package.

## Public Golf Forum

## plus Break-out Discussion Sessions

1:00 - 4:00 p.m.

Chairperson: John Majernik, CGCS

- Issues in Public Golf
- John G. Majernik, CGCS, Golf Director, Mill Creek Metro Park District, Youngstown, OH

- Public Golf Marketing
- Dennis Lyon, CGCS, Manager of Golf, City of Aurora, Aurora, CO
- Quality Is the Name of the Game
- Michael R. Heacock, CGCS, VP of Agronomy, Director of Maintenance, American Golf Corporation, Long Beach, CA
- Maintenance Scheduling
- Randy Russell, Division Manager, Sports Management, City of Austin Parks Dept., Austin, TX
- Break-out Discussion Sessions
- After the formal presentations listed above, the audience will have an opportunity to break into two groups (state and municipal courses, and public/private owner courses) to discuss a variety of issues concerning public golf management.

## SUNDAY, Feb. 11

## National Golf Foundation Session

8:00 - 10:00 a.m.

11:30 a.m. - 12:30 p.m.

- Richard L. Norton, NGF Vice President of Operations

USGA Green Section  
Education Conference

Moderator: James T. Snow, National Director, USGA Green Section

12:30 - 4:30 p.m.

- "Golf Course Management: Past, Present and Future"
- 12:45
- Back to the Basics
- 1:15
- The Best Turf Tips from the Green Section Staff
- 1:30
- Up to Your Armpits in Alligators
- 2:15
- More of the Best Turf Tips
- 2:35
- 1996 Green Section Award
- 2:50
- The First 100 Years. The Next 100 Years.
- 3:20
- The Best Turf Tips Keep Coming



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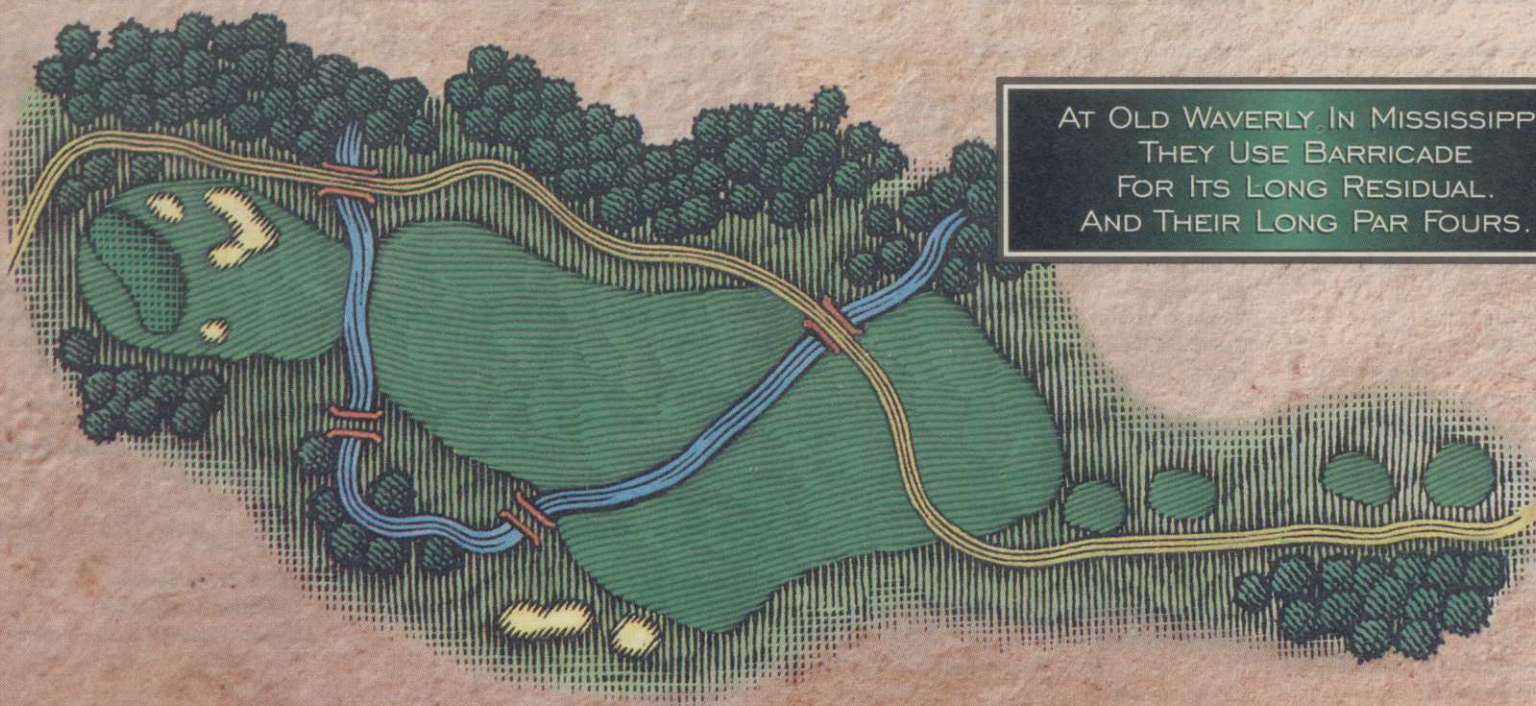
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## BRIEFS



## NY TURF SHOW PLANNED

SUFFERN, N.Y. — The New York State Turfgrass Association is holding its annual Grounds Exposition II at the Holiday Inn-Suffern on Feb. 28 and 29. Headlining speakers include Dr. Houston Couch of Virginia Polytechnic Institute and Dr. Richard Cooper of North Carolina State University. Couch will discuss his latest research on growth regulators as they impact disease development. Cooper's presentation will focus on turfgrass pesticide fate. More information is available by calling NYSTA at 1-800-873-8873.

## MAINE GCSA READIES SHOW

ROCKPORT, Maine — The Maine Golf Course Superintendents Association will host its annual Turfgrass Conference on March 6-8, at Samoset Resort here. The conference will feature three days of events, including two full days of speakers on subjects like "Turf Response to Low Temperature Stress," "The Grow-In Manager," "Getting the Most out of Insecticides," and "A Closer Look at Organic Fertilizers." There will be also be a GCSAA-sponsored seminar on personal stress management and a mechanics session on March 7. For more information call 201-761-7878.

## NYSTA ELECTS SMITH

LATHAM, N.Y. — Stephen Smith of Old Colony Landscaping of Taunton, Mass., has been elected president of the New York State Turfgrass Association. Also elected were Vice President Anthony Peca Jr. of Batavia Turf Farms and Secretary-Treasurer John Fik of Hobart and William Smith College. New directors are James Hornung of North Americare Park in Buffalo; Michael Maffei of Back O'Beyond in Brewster; and Joseph Hahn of Oak Hill Country Club in Rochester, N.Y.

## MANAGEMENT SCHOOLS SET

NEW BRUNSWICK, N.J. — The Rutgers Professional Golf Turf Management School has one final educational session this academic year.

Planned for Feb. 27-28, the Advanced Turfgrass Management Symposium will be held at the campus here. Interested people may contact Miss Marcianite at 908-932-9271.

## COVE CAY CC INKS ISS

CLEARWATER, Fla. — Cove Cay Country Club has signed ISS Golf Services to maintain its 18-hole golf course and surrounding landscape. Cory McDonough will transfer from ISS' Wyndemere Country Club operation in Naples to oversee the maintenance operation of Cove Cay. ISS is a Tampa-based golf course maintenance firm.

## Audubon expands horizons, goes international

SELKIRK, N.Y. — It's official. Audubon International — Center for Sustainable Resource Management (AI) has been formed and is operating, bringing under one umbrella the national and international programs formerly managed by the Audubon Society of New York State (ASNY).

Citing a mission of improving the quality of the environment through research, education and conservation assistance, AI expects the public to better understand the breadth of the society's programs through its name change.



"We have members in countries around the world," said ASNY President Ron Dodson, who serves as president and chief executive officer of Audubon International.

"Audubon International was created to help deal with 'geographic' limitation issues regarding the name 'New York.'"

Audubon International's mission is much broader than that of ASNY.

It is recognized that much of the transition will be phased in over time for the sake of utilizing program materials already in existence and for the opportunity of educating existing members as to the new structure being established."

## Pine Ridge GC undergoes a 'natural' conversion

By PETER BLAIS

BALTIMORE — With completion of its new cart-storage facility, city-owned Pine Ridge Golf Course converted its 70-vehicle E-Z-GO golf car fleet from gasoline to natural gas in early December, an environmentally friendly move that is meeting with mixed reviews.

"It's really been more show than substance," said Art Slusark, public information director with Baltimore Gas and Electric (BGE), which partnered with Baltimore Municipal Golf Corp. (BMGC) in the original pilot program to test four compressed natural gas (CNG) vehicles at Pine Ridge.

"We were looking for highly visible sites to test natural gas units. Pine Ridge is considered one of the premier public courses in the country and gave us the opportunity to get exposure for natural gas vehicles with the many business people who play the course. We knew they could help us break down some of the barriers to their use. But economi-



Natural gas golf cars are the way to travel at Pine Ridge Golf Course in Baltimore.

cally, it's really not a cost-effective system for golf courses, yet. They don't put enough miles on the carts to make it worth putting in the pumping station."

For BMGC, the non-profit entity that

operates the city's five courses, the switch to natural gas is more environmentally than economically motivated, according to Executive Director

Continued on page 52



## RETIRING PERSONALITIES

When Dave Fleming "retired" from greenkeeping, he put his hand to designing such spectacular golf holes as this one — the 147-yard, par-3 9th hole at El Tamarindo Club de Golf in Manzanillo, Mexico. Fleming is one of many ex-superintendents keeping their hand in the golf business. (See story, next page.)

## Roberts urges more carbon use in root-zone mixes

By MARK LESLIE

SPARTA, Tenn. — Saying researchers "haven't begun to explore the use of grasslands as a depository for effluent and other materials," Dr. Eliot Roberts declared: "Anything with carbon in it ought to be processed and mixed into the soil when you build a golf course."

Roberts, retired executive director of The Lawn Institute and former head of turfgrass programs at Iowa State University and the University of Rhode Island, said golf course soil systems are aerated and "while carbon would never decompose in a landfill, it would feed microorganisms in a golf course."

"Paper, plastics, animal and plant wastes all have carbon. They can be processed and pulverized to feed soil."

Pointing to the 45 quadrillion micro-

Continued on page 52



# Golf course superintendents never die, they just ...

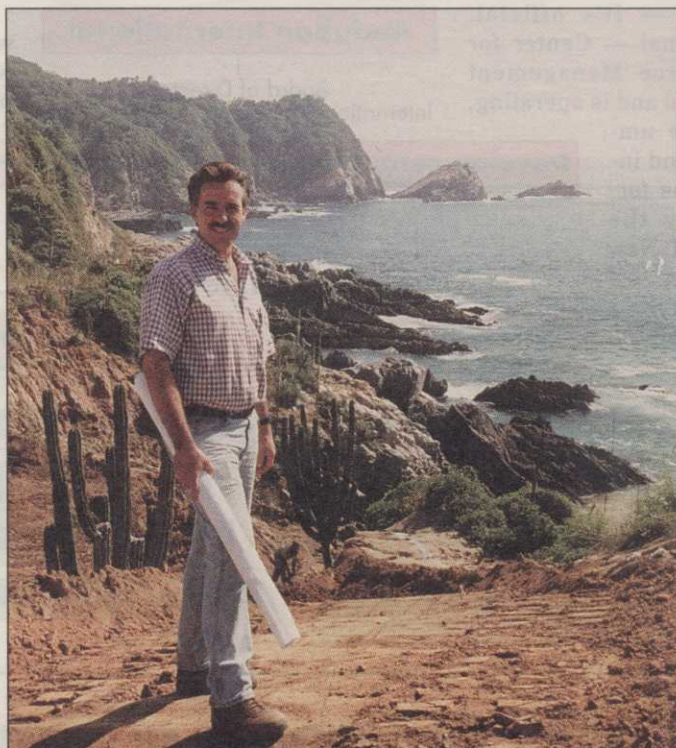
By MARK LESLIE

**R**etirement? What retirement? Sherwood Moore, Mel Lucas, Richie Valentine, Dave Fleming and countless others have redefined the word "retired" for golf course superintendents. It seems the career path of the superintendent does not lead everyone to retire and then just hang out.

Talk to Lucas and he is off to Austria or Hungary, advising a golf course builder or sod grower. Talk to Valentine and he's consulting with some superintendent in Pennsylvania on how to beat the drought. Talk to Fleming and he's off to Mexico or Costa Rica to design a golf course and advise on both its maintenance and management. Meanwhile, Moore is in Egypt — whose golf courses can be counted on one hand — consulting with developers new to the business of golf.

"Some guys who have stayed in the field are doing super things in retirement," said John Ebel of Barrington, Ill., who "retired" in 1990 only to spend the next three years overseeing a renovation at his old employer, Barrington Hills Country Club.

"I tried retiring after '89," said Valentine, who was superintendent at Merion Golf Club for 40-odd years. "The club gave me a nice party and so did the Philly Golf Course Superintendents Association."



Superintendent-turned-designer David Fleming on site in Mexico.

tion. And I thought, 'Is that all there is?'

"How much fishing can you do?" he added, explaining why he opened Valentine & Sons Turf and Landscape Supplies & Services. "Some retired superintendents have gone on to very successful consulting businesses here

and abroad. Others have taken sales positions with golf-oriented companies. And a few have even started landscape or turf-related businesses. In most cases, they've found some way to keep their hand in the golf business."

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*'How much fishing can you do?'*

— Richie Valentine

*'It's still wonderful to shape and mold and work with the soils that create a golf course.'*

— Mel Lucas



*'I didn't want to quit cold, so I phased out.'*

— John Ebel

changing experiences have lured Lucas and kept him globe-trotting since "retiring" from his post at The Garden City (N.Y.) Golf Club. "I have met the finest cross-section of people in the world," said the former presi-

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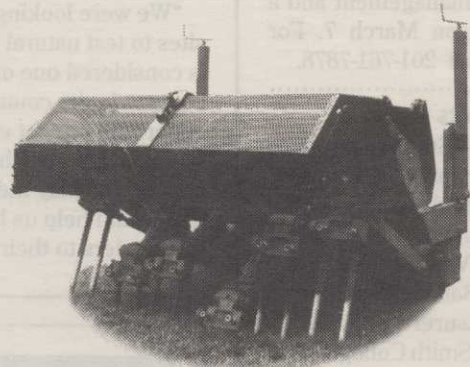


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## Un-retired superintendents decide not to go fishing

**Continued from previous page**  
dent of the Golf Course Superintendents Association of America. "The people who are building or making the monies available to build golf courses ... personify the qualities of wealth and ability to get things done. These [un-retired] golf superintendents live in that arena and it's a nice arena. We don't have the wherewithal to do these projects, but we're a very integral part of it."

"We are invited and involved with so many marvelous functions that go on with golf course developments. It's a rewarding situation to be able to rub elbows with some of the major people in the world. And to travel and live in the rural climates of countries that the general tourist doesn't get to. Plus, we get to meet people and work with their soils, and help build a growing green-keeping profession [abroad]."

Valentine, who with his father led Merion's greenkeeping duties for most of a century, ascribed superintendents' bent on staying involved in golf as "liking the job and loving the outdoors."

"Building golf courses and making them work is always marvelous," Lucas said. "It's still wonderful to shape and mold and work with the soils that create a golf course."

"It's a love of the land, really," said Fleming, the former superintendent at Singing Hills Country Club in El Cajon, Calif., where he now operates Golf Properties Design, combining his agronomic know-how with course design skills. "You can't beat the first 20 or 25 years of my life: Get up every day and meet the sunshine. It doesn't get any better than that."

"A lot of us grow through that and look for other opportunities, challenges and desires. But our roots are still with the ground, golfing operations and the people in golf. Also, golf course superintendents, in particular, are a very close group of people."

...

Lucas thinks this continued involvement is a generational phenomena that will disappear with the younger superintendents.

"We, in my time, had blinders on and didn't know much but work," Valentine said. "Get up at the crack of dawn and get over to the club... We became creatures of habit. Work was our way of life. I didn't know what to do if I did take a week off. Today, I see superintendents vacationing in July. If we had done that, we would have returned only to find our desk and chair out in the parking lot. Twenty years from now, guys will retire and stay retired."

But many may follow Ebels' GOLF COURSE NEWS

example. "I didn't want to quit cold, so I phased out," he said. "The club was about to carry out a master plan we had worked on for several years. I told my chairman I was looking forward to retiring but didn't want to miss the exciting things that were to go on. They agreed I could take charge, and it worked out good for both sides."

And others, like Fleming, may use their knowledge to expand into other careers.

Besides course architecture, Fleming designs landscaping and water features as well as wetlands for mitigation banking.

"When you come down to it," he said, "the presentation of a golf course is always in the hands of the superintendent. It's been good for me because I've been able to apply my field experience back to the concepts of design. How many designers are certified golf course superintendents or certified pesticide applicators?"

## Seminar focuses on tree care

PHOENIX, Ariz. — Artistic Arborist, Inc.'s Equipment & Supply Division will conduct a seminar here on tree health management on March 14.

The 9 a.m. to 4 p.m. seminar will be conducted by Dr. Terry A. Tattar, a professor of plant pathology at the University of Massachusetts' Shade Tree Laboratory.

Tattar will speak on the tree as a system; important pathogens of trees and the diseases and other problems they cause; the nature of fungi; over- and under-care by humans; preventive maintenance; methodology and standards; spraying and pruning foliage; surface and subsurface roots; micro-injections of the stem or trunk; and how to promote tree health.

More information is available from Artistic Arborist at 706 W. Montecito, Phoenix, Ariz. 85013; telephone 602-263-8889.

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# Chester Valley best conditioned on Senior Tour

By HAL PHILLIPS

**M**ALVERN, Pa. — When it comes to institutions of quality learning there are engineering factories (like MIT), football factories (Nebraska), even journalism factories (Missouri).

Add to that list Northern York (Pa.) High School, "Superintendent Factory."

Kirby Putt, superintendent at Chester Valley Golf Club here, and Scott Krout, the super at Desert Mountain's Cochise Course in Carefree, Ariz., are both Northern York graduates and recently finished 1-2 in a survey determining the Best Maintained Course on the Senior PGA Tour.

Each year Golf Course News polls playing professionals, asking which tour stop provides the best playing conditions. Last year, Superintendent Mike McBride and Muirfield Village GC were honored by PGA Tour players. The year before, LPGA members honored Mission Hills Country Club and superintendent Dave Johnson.

This year, Chester Valley — site of the Bell Atlantic Classic — was named the best-kept track on the senior circuit, as determined by the competitors themselves. Chester Valley barely outpolled Desert Mountain, site of The Tradition, which earned the honor in 1991.



Chester Valley's fairways show the grounds crew's meticulous care.

The respective careers of Putt and Krout have run along remarkably parallel lines. After attending Northern York, both served as assistants at West Shore Country Club in Camp Hill, Pa., and both moved on to Arizona — Putt to Arizona CC and Krout to Tucson CC.

"But after eight years in Arizona, I really wanted to move back to Pennsylvania," Putt explained. "I took the Chester Valley job two weeks before the tournament last spring. They didn't have a

superintendent for two months before-hand. The superintendent who preceded me, Jeff Broadbelt, did a fantastic job here. He deserves a great deal of credit. If I had any input, it was my decision to lower the greens and make them a little smoother. But really the course was in excellent shape when I got here."

Senior Tour players agreed. "Always in great shape but this year was the best ever," one player raved.

"Overall, the best conditioning on

tour," reported another.

The 1995 Bell Atlantic was the first televised-tournament preparation for Putt, whose friends call him Three.

"I wasn't too worried because the course was already in great shape," he said. "And I've also had some experience with big tournaments: the State Amateur and the Southwest PGA Sectional championships."

"The circus-type atmosphere that surrounds a TV tournament was interesting. But they've got it down to a science here [at Chester Valley]. The only thing we had to worry about was the weather. That's the hardest part of the adjustment from Arizona to the Mid-Atlantic region; not knowing what the weather will be."

"In Arizona, it's a slow death. The heat traumatizes the grass over time. Here it's a quick kill. You really have to be on your toes here in season."

With a full year under his belt, Putt plans to put his own mark on Chester Valley. A new irrigation system will be in place before this year's tournament begins. Nearly two holes were recently completed before the Philadelphia area

Continued on page 54



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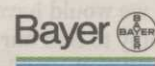
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## Clients give builders high marks in poll

By MARK LESLIE

CHAPEL HILL, N.C. — Consistently high marks for the country's leading builders bode well for the industry, according to Golf Course Builders Association of America (GCBA) Executive Director Phil Arnold.

"The quality of their work has increased dramatically — even in the last five years," Arnold said from his office here.

Noting that 19 companies — the most ever — were nominated for Best Builder Award this year, Arnold said: "Some of those companies weren't even heard of 10 years ago and they're among the best today. It's much more specialized and people recognize it as that."

"Our profession as a whole has evolved to be a much more professional group of people — from us and Wadsworth, Neibur, Clute and Fairway and a lot of small contractors, too," said 1995 Builder of the Year Bill Kubly, president of Lincoln, Neb.-based Landscapes Unlimited, Inc. "It's not a mom-and-pop business any more. And we're using standards that you'd be using in other sorts of business as well. This came with the advent of 300 to 400 golf courses a year being built."

Kubly said he observes smaller builders all over the country, who do one or two golf courses a year, "whose reputations are certainly as good as ours."

In its annual poll, *Golf Course News* asked clients of the five most-nominated course builders to appraise their work. In all eight of the survey's categories, the average score for the five builders topped 9.1 on a 0-10 scale:

- Overall construction of the projects: 9.33.
- Whether construction quality met expectations: 9.43.
- How well the companies stayed within budget: 9.17.

• How well the companies met time deadlines: 9.39.

• If the firms had adequate personnel: 9.22.

• The quality of the personnel: 9.16.

• If the firms had adequate equipment: 9.18.

• Rate the companies' supervisors: 9.27.

Wadsworth was cited by various course architects for its quality work, conscientiousness, trustworthiness, attention to detail, going "above and beyond the call of duty," and for "anticipating architects' and owners' thoughts and concerns."

A perennial finalist, Fairway Construction was said by one architect to be "rapidly becoming 'a force' in being able to provide quality construction while expanding its amount of work."

"It is the most cooperative in working with other disciplines to insure that projects are advanced," said one supporter.

Niebur Golf was new to the finalist group in the *Golf Course News* polling, winning some raves from clients.

"Joe and his staff are very professional," said architect Dana Fry of Hurdzan Golf Design in Columbus, Ohio, "and I am sure in the near future they will be judged on the same level as Wadsworth, Landscapes or Clute..."

"What I really admire is that in just seven or eight years Joe Niebur has built his company into a very good one that builds great golf courses for a very reasonable price — and he has done so with his own money."

Craig Perna of Taylor Woodrow/Kenco, Ltd. added an explanation point to his assessment of Niebur, who built Addison Reserve in Boca Raton, Fla., for him. Perna wrote a "20" out of a possible 10 for quality of staff and "50" for the project supervisor.

[High praise, but GCN averaged in 10s.]



The Golf Club at Bradshaw Farm, built by Landscapes Unlimited Inc. and designed by Grant Wencel, opened in December in North Atlanta, Ga. It is set on an old farm property, with two restored silos framing the 18th green and 30-mile views of the North Georgia mountains.

## The winner: Landscapes

Continued from page 1

*Golf Course News* will present the Builder of the Year Award during the Golf Course Builders Association of America (GCBA) banquet at the International Golf Course Conference and Show in Orlando, Fla. The dinner will be held at 8 p.m. on Feb. 9 at the Omni Rosen Hotel, preceded by a 7 p.m. reception and followed by an auction to raise funds for the association and for research.

After being nominated by the nation's golf course architects, the builders provided *Golf Course News* with lists of their clients. The clients, under protection of anonymity, were then asked to rate the builders, on a scale of 1 to 10, as to construction of their project; how well it met the quality they expected; its project supervisor; and if the company met budget and deadlines, had adequate personnel and equipment, and high-quality staff.

"Because it's a vote of our customers, it means a lot to us to know they're that happy with our work," said Bill Kubly, president of Landscapes. "The most important task we have is keeping that client happy. Regardless of the project's size, the job isn't finished until our clients have been totally satisfied. We're proud of being on time and on budget."

"We're thrilled that our builder members are so highly regarded by their clients — the developers and architects," said Phil Arnold, executive director of the GCBA, noting that all the top vote-getters are GCBA members. "I know last year was a very frustrating one in which to build because of the hurricanes and floods and, in certain areas, the difficulty in finding good personnel."

"If you go out on a Landscapes job site, everybody, right down to the person raking the bunker, knows that the company has won that award a couple of times and really has a lot of pride in working for them."

The accolades poured in for Kubly and his firm. "This is our fifth course with Landscapes Unlimited as general contractor. Enough said. They are the absolute best!" said Roger Watson of Carolinas Golf, which saw its Oak Valley Golf Course in Winston-Salem, N.C., completed last summer and Currituck Golf Course in Kittyhawk, N.C., finished in December.

"Landscapes Unlimited brought to life an exceptional Tom Fazio course design," said Fred Durham, president of Maroon Creek Golf Club in Aspen, Colo., finished in October. "Their sensitivity to the environment and their flexibility as contractor has

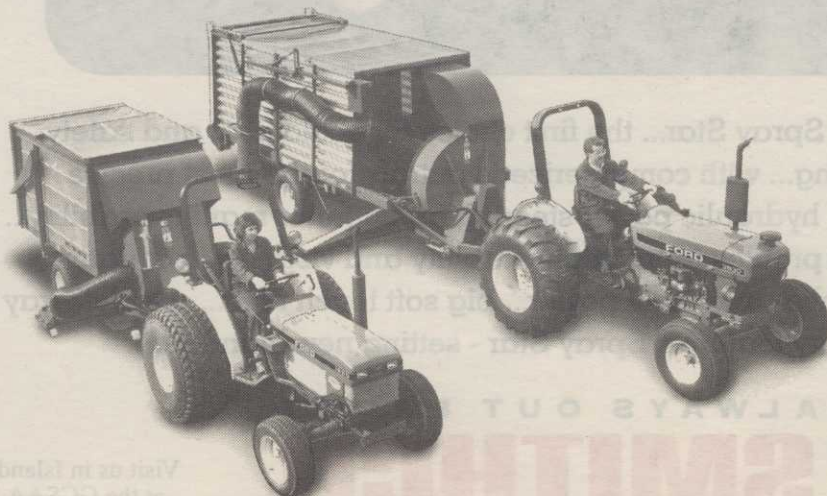
been beyond reproach. This project would not be the success it is today without Bill and his organization's involvement."

Citing his Sunset Hills Country Club project in Carrollton, Ga., as coming in below budget and a month early, General Manager Ken Kennedy said of Landscapes' staff: "professionalism at its best."

And Ross McCown of NEBCO, Inc. in Lincoln added: "Although you didn't have a 'rock wall' category, we had several holes [at Quarry Oaks Golf Course in South Bend, Neb.], where Landscapes really did a magnificent job with rock walls."

Three-time Best Builder Award-winner Wadsworth also garnered rave reviews. American Society of Golf Course Architects President Jeff Brauer, who split his nomination between Landscapes and Wadsworth, each of which built two of his courses in 1995, said: "Both companies possess the ability to keep on schedule, strong financial resources and the experience of working with all the best architects in the industry. When we complete a project with Wadsworth or Landscapes Unlimited, we invariably find something in their construction technique that we can use to improve our own specifications."

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# Tips for the hour meter: sparking efficient use of course vehicles

By TERRY BUCHEN

Some good news for superintendents who want to put an hour meter on small one- and two-cylinder engines that do not have a 12-volt electric system feature to operate a conventional hour meter: Tiny-Tach, a digital tachometer and hour meter, is now available that is powered by a non-replaceable lithium battery that will usually last from five to seven years and can be "reset" so it can be transferrable to other pieces of equipment back to zero

hours. When the engine is off, the Tiny-Tach displays only the hour-meter function. When the engine is operating, it displays the actual engine RPM's from an inductive on/off/rpm sensor. It is 3 by 1-1/2 by 3/4 inches. The display numbers are 5/16 inches tall and the meter is sealed for



SHOP TALK

moisture resistance and tamper protection. Hooking up the meter is simple, as the red wire must be wrapped around the spark-plug wire three or four turns with the excess length cut off, the white ground wire is attached to any bolt on the engine or frame and then slip solder a lug between the engine and bolt head and retighten. The black wire

leads back to the meter and the extra length of this wire should be taped or zip-stripped to an out-of-the-way place. Attach the meter to the frame of the equipment using double-sided tape, or with screws.

When the "reset" is pushed, the meter will perform a self-diagnostic test, displaying all segments to ensure that everything is OK.

During the last portion of the self-test, it will show one of three models that are available and

then turn back to 'O' hours:

- 2C is the standard model to be used when there is one spark firing on each revolution of the crankshaft.

- 4C is for engines which have a spark for every two revolutions of the engine crankshaft such as those with a distributor driven from a crankshaft.

- 1C is for twin-cylinder engines with a spark firing every 180 degrees of the engine crankshaft.

To safeguard against employees inadvertently pushing the recessed "reset" button, attach a service sticker, made from a labelmaker, over the button. State the hours when the equipment servicing is due, accomplishing two goals at once.

Some suggested uses for the meter are walk-behind greensmowers, one- or twin-cylinder leaf blowers, walk-behind 21-inch rotary mowers, sod cutters, trash pumps, portable generators, or any one- or two-cylinder engine without a 12-volt charging/battery system.

The Tiny-Tach Meter is available from engine-part distributing companies nationwide and comes with a one-year warranty.

This meter will make a golf course mechanic's job more efficient and easier.

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## Canada geese count is down

WILMINGTON, Del. — An October survey by state fish and wildlife officials reveals something that might surprise most golf course superintendents: the state's Canada geese count was the lowest number on record.

The Division of Fish and Wildlife's survey on Oct. 16 and 17 counted 20,636 birds. The previous low count for October was 29,990 in 1992. The October 1994 count was 35,000.

Tom Whittendale, a biologist with the Delaware Division of Fish and Wildlife, said the low count suggests "the population throughout the Atlantic flyway is having serious problems. The numbers suggest closing the Canada goose season in the flyway was the right decision."

Contrary to the perceptions of superintendents at courses where the geese gather, the Canada goose population of the Atlantic flyway has experienced several years of poor breeding success. This is partly due to the harvest of breeding adult birds and due to weather conditions in the Eastern Canadian provinces, where the birds breed during the spring. Unseasonably cold spring seasons have hampered the population's breeding success.

The U.S. Fish and Wildlife Service and Canadian Wildlife Service closed the Canada goose season in the Atlantic flyway to try to help the population's recovery.

GOLF COURSE NEWS



# Planting, staking success lies in the technique

By LAURA MILLER

Although properly prepared and protected stock can often be successfully transplanted during any season, tree planting is most successful at specific times of year. Winter is a good time to determine which trees you want to plant. Correct timing encourages the growth of healthy trees.

In general, plants are best moved when shoots are not actively growing — the resting or dormant stage. Deciduous trees are normally planted in the fall after leaf drop and before the soil freezes, or in early spring before bud break.

Narrowleaf evergreens also may be planted in the fall or spring before new growth starts. Broadleaf evergreens should be planted in the spring in climatic zones where soils freeze. In the North, the soil freezes early and deep spring planting of evergreens is perhaps the safest, said Len Burkhart, Ph.D., a horticulturist with Davey Tree Experts.

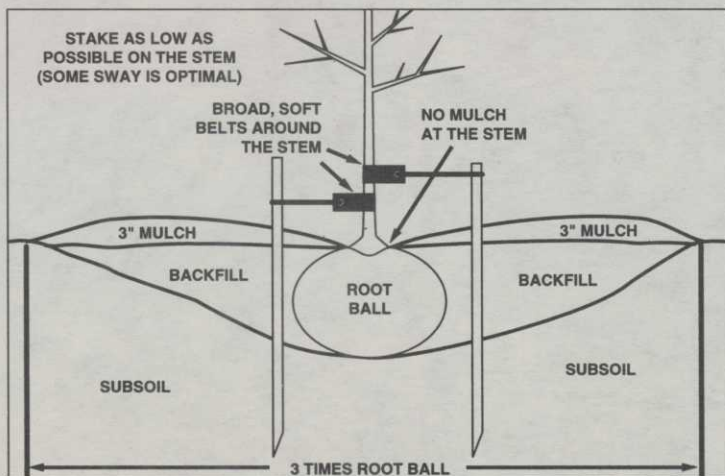
"In the South, with its mild winters, fall planting is preferred," Burkhart said. "Winter planting is fine for plants with a root ball large enough to contain undisturbed roots that supply branches with water until spring."

Transplant success often depends on soil temperatures. The soil must be warm enough to permit the growth of new roots immediately after planting and continue until adequate root growth can support the plant's water-absorbing potential. "Roots grow best when soil temperatures are between 40 and 90 degrees F," Burkhart said. "Trees should be transplanted at least four weeks before soil temperatures drop below 40 degrees F to allow proper root development in the fall."

Research shows that a shallow planting area should surround the transplant hole. To make a planting area, the ground around the hole should be shovel-dug or rototilled to at least a 10- to 12-inch depth. This depth is appropriate because the tree's roots that absorb water and nutrients are located within 18 inches of the soil surface.

The planting area should be three to five times the width of the root ball or, at least, the soil should be loosened or tilled well past the current-year drip line so roots can spread horizontally into the native soil. Roots spreading out in this manner create a stronger base for the tree, especially in times of drought.

A hole should be dug near the center of the planting area after the area has been rototilled. The hole should be deep enough so that the tree's base is at or slightly



Drawing courtesy of Davey Tree Experts

higher than ground level. The root ball should not sit on the fill soil, but on the bottom of the hole. This prevents the root ball from sitting too low in the ground.

"No plant should be planted deeper than it was at its original planting site," Rathjens said. "Err on the side of planting too high, as opposed to too deep."

The size of the plant's hole should be at least two times the root system (for bare-root plantings), or root-ball diameter. The hole should be larger when possible and dug with sloping sides at about a 45-degree angle from the ground surface. The slanting sides direct roots to spread horizontally.

If a hole is dug deeper than necessary, some fill soil should be added to the bottom of the hole. Stone, rocks or cement chips should not be added.

## ADDING BACKFILL

Soil removed from digging the hole should be used as backfill. Organic matter can be added for sandy or heavy soils. No more than 10 to 20 percent of the volume should be added because as

the organic matter decomposes, the backfill settles, causing the root ball to fall below ground level.

If the backfill is more than 20 percent organic matter, it changes the backfill's physical characteristics. Backfilling with soil that is lighter or better drained than the native soil can result in stunted or dead plants because roots may have difficulty growing into the surrounding soil.

The area around the soil ball should be watered to eliminate air pockets. Watering puts the soil into direct contact with the roots. Backfill and water then should be added alternately.

Include mulch application in your planting. Mulch has many benefits. It is attractive and helps suppress weed growth and protect trees from moisture loss. Mulch slows soil water evaporation, providing trees with a consistent source of water.

Mulch also protects root systems from temperature extremes by insulating the roots. Mulched soil doesn't cool as quickly in the winter or warm as quickly in the summer as unmulched soil.

For mulch to be effective, it should be applied before temperatures change drastically.

It should be 2 to 3 inches deep, and should never be piled against the tree's trunk. Too much mulch reduces air and water exchange, and the roots suffer.

## STAKING TREES

Improper staking is one of the most common planting mistakes. Many people don't know when to stake (and not stake) a tree. Generally, most trees with a diameter greater than 3 inches don't require staking.

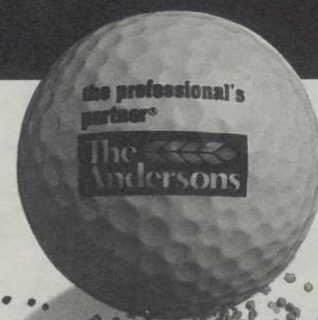
Proper staking can help newly planted trees withstand strong winds. It anchors and supports trees that can't stand alone after transplanting. However, staking

is expensive and time-consuming. So, it should only be done when it is necessary to the tree's health.

If staking is done correctly, the tree roots and trunk will become strong enough to stand unsupported. Trees should be staked to bend with the wind only if they are unable to stand against the wind.

A common staking mistake is the use of only one stake. Two stakes with a flexible tie on each will provide better trunk support and reduce the potential for injury.

A tie should have a flat, smooth surface and be somewhat elastic to allow slight movement of the tree. Rubber hosing is a good staking material. Wire covered with a hose or tubing should not be used.



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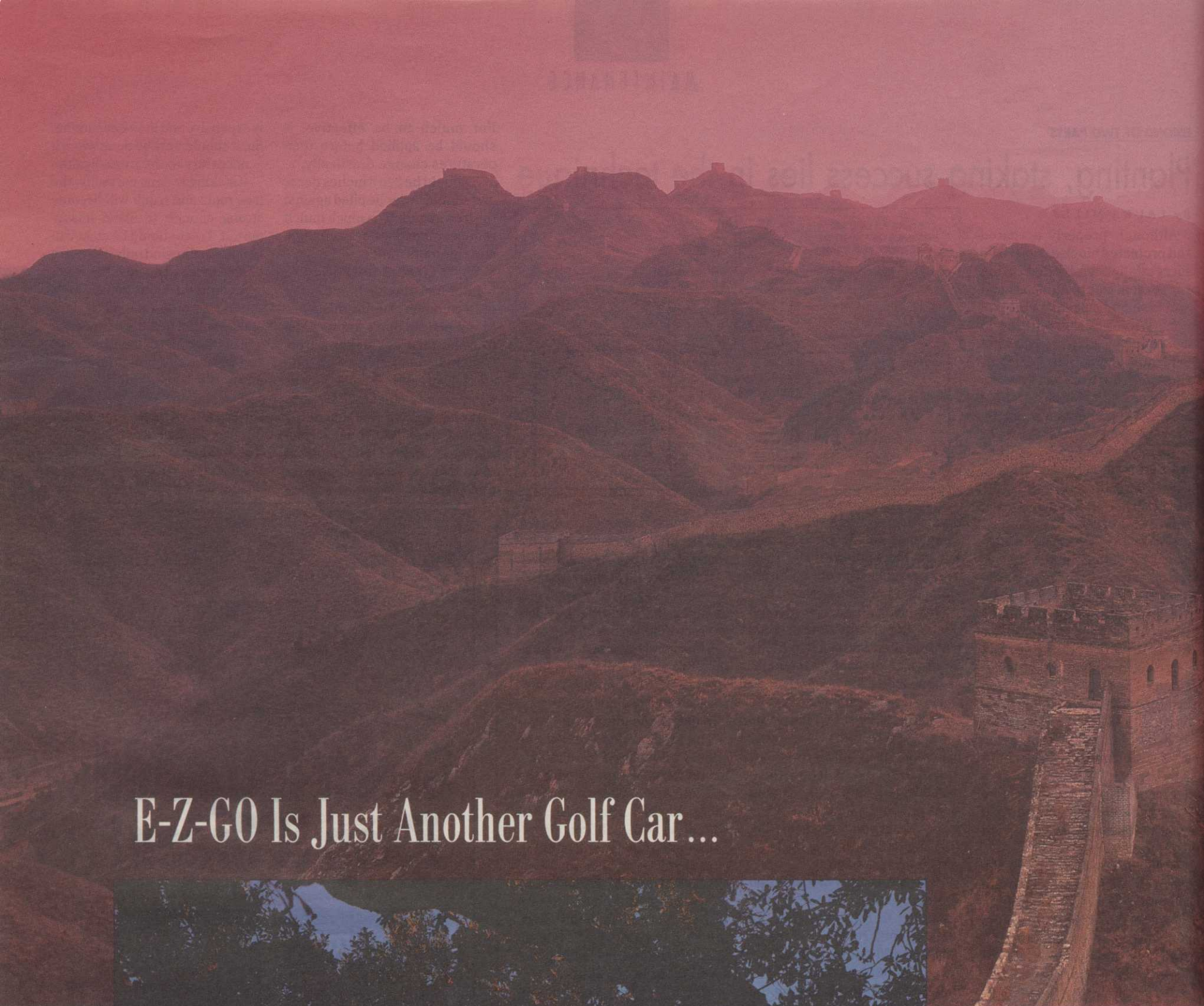
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Laura Miller is supervisor of corporate communications for The Davey Tree Expert Co. in Kent, Ohio.

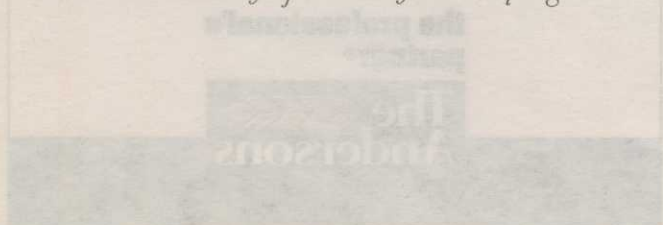




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agrees E. Burkert said.  
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has been retolled. The hole  
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## USGA continues major turf, env'l research

By MIKE KENNA

The United States Golf Association will fund nearly \$1.4 million in 1996 for its turfgrass and environmental research programs. Of this total, \$798,584 will go toward turfgrass research projects and \$592,258 will be spent on environmental research which includes grants of \$100,000 each to the Audubon Cooperative Sanctuary Program and the Wildlife Links project conducted in cooperation with the National

Fish and Wildlife Foundation.

The USGA is still emphasizing plant-breeding projects to improve turfgrasses used for golf courses. Crenshaw (Lofts Seed) and Cato (Pickseed West) creeping bentgrasses resulted from a USGA project at Texas A&M University in cooperation with Bentgrass Research, Inc., a non-profit group in Dallas/Fort Worth committed to providing better



bentgrasses for the Southwest. Syn 1-88, a reselection from Seaside, was released to Pickseed West for low-maintenance areas using poor-quality irrigation water.

In 1995, Syn 92-1 and Syn 92-2, selected for improved heat tolerance and rooting, were released to Burlingham & Sons.

These new bentgrasses are welcome additions to varieties which were partially sponsored

by the USGA in years past. Penncross and Pennlinks (Tee-2-Green), developed at Pennsylvania State University, received small USGA grants to help produce these grasses.

Small USGA grants also helped develop Providence (Seed Research of Oregon) at the University of Rhode Island and even some of the early work on SR-1020 at the University of Arizona.

The U.S. transition zone has always had problems with winter damage to warm-season turfgrass species such as Bermudagrass and zoysiagrass.

At Oklahoma State University,

OKS 91-11 has demonstrated superior cold tolerance among the seeded Bermudagrasses and will be released in early this year. Several of the vegetatively propagated zoysiagrasses developed by Texas A&M University have performed well and also will be released in early this year.

USGA-sponsored breeding projects have routinely entered promising varieties into the National Turfgrass Evaluation Trials. In general, OKS 91-11 Bermudagrass and some of the new DALZ lines have performed well in the transition zone.

MI-40, a mutant of vegetatively propagated Midiron Bermudagrass, was released by Dr. Wayne Hanna from the USDA-ARS at Tifton, Ga., for use on golf course fairways. TW-72, a mutant of Tifway, is under consideration for release. These new vegetatively propagated Bermudagrasses will join a long list of successful Bermudagrasses developed by Dr. Glenn Burton. The Bermudagrass breeding program at Tifton has made tremendous contributions with cultivars such as Tifgreen, Tifway and Tifdwarf.

Several promising creeping bluegrasses (*Poa annua* var *reptans*) were released to Peterson Seed by the University of Minnesota. After trying for the last 75 years to eradicate annual bluegrass, the breeding program at Minnesota has attempted to improve the perennial forms of annual bluegrass. The philosophy is simple: When you're served lemons, make lemonade!

Cody and Tatanka seeded buffalograsses were released by the University of Nebraska to the Native Turf Group. A small amount of seed was available in 1995 and larger quantities will become available in 1996. Both of these new seeded buffalograsses are significant improvements over the older forage types such as Texoka. The vegetative buffalograss varieties 609, 315 and 378 all continue to perform well on golf course roughs.

The University of Nebraska has initiated a selection program for fairway-type buffalograsses. Early indications suggest that buffalograss may be improved for low-maintenance fairway situations where water is a limiting factor.

Results from University of Nevada indicate that buffalograss can provide adequate turf for roughs with deficit irrigation of 50 to 60 percent of evapotranspiration).

The USGA has initiated several projects using molecular genetics techniques. These biotech projects will eventually tie into the plant breeding programs to develop turfgrasses which require fewer cultural inputs.

At Rutgers University, creeping bentgrass resistant to glufosinate ammonium herbicide were produced using genetic engineering technology.

Michigan State, Virginia Tech and Rutgers University are all employing biological technology

Continued on next page

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## USGA continuing research

Continued from previous page

to produce disease-resistant bentgrasses by introducing genes which produce the chitinase protein.

At Mississippi State University, bentgrasses resistant to brown patch (*Rhizoctonia solani*) were successfully selected using a tissue culture technique called the Host Plant Interaction System.

Several bacteria are under evaluation for their suppressive characteristics on common diseases of creeping bentgrass. At Rutgers University, more than 1,000 bacterial isolates were evaluated for their plastic capabilities to summer patch (*Magnaporthe poae*). Based on laboratory and greenhouse tests, the scientists have narrowed the field of bacteria down to promising strains of *Xanthomonas* and *Serratia*. Bacterial control of Pythium-incited diseases of creeping bentgrass is under investigation at Cornell University.

Promising strains of *Enterobacter cloacae* have been successful in reducing the number of Pythium ultimum sporangium that germinate in lab tests.

The results at both universities have been promising in the laboratory and greenhouse. However, they are a long way away from successful implementation of a biocontrol on turfgrass diseases in the field. Results at the University of Kentucky suggest that the number of grubs required to cause noticeable injury was much higher than prevailing rule-of-thumb estimates used by the turf industry.

An application of aluminum sulfate just before the beetle flights reduced subsequent grub densities by as much as 77 percent.

Scientists at University of Kentucky also believe black cutworm infestation on putting greens results due to the migration of large larvae from collars and surrounds. At the University of Florida, a new species of bacteria, *Pasteuria* sp., which parasitizes the sting nematode (*Belonolaimus longicaudatus*) is

under evaluation. Early monitoring of six field sites where the bacteria naturally exist indicates that locations that started with low levels of spores had higher numbers of sting nematodes than areas that started with high spore levels.

In 1996, the USGA will sponsor new projects on the construction and maintenance of putting greens.

Research on the physical properties of the root-zone mix, grow-in issues, and maintenance programs for new greens will be addressed.

The projects will be conducted at land grant universities and the results of the effort will be published in peer-reviewed scientific journals.

### ENVIRONMENTAL IMPACT

In 1995, the USGA began a second three-year research project to evaluate the environmental impact of golf courses. Nine studies will focus on the fate of pesticides applied to golf course turf.

Emphasis on the volatilization, runoff and leaching of pesticides and best-management practices to avoid problems are underway. The USGA is continuing its support of the Audubon Cooperative Sanctuary Program conducted by Audubon International.

In 1995, the USGA successfully initiated the Wildlife Links Program in cooperation with the National Fish and Wildlife Foundation (NFWF).

A committee of wildlife experts, formed by the NFWF, is evaluating research proposals which will develop resource information useful to golf courses. The projects will begin early this year.

A tremendous amount of positive turfgrass and environmental research is being conducted across the United States due to the financial commitment of the USGA.

The universities who openly share their faculty and facilities are greatly appreciated.

All of those who support the game of golf and the USGA should be proud of the positive contributions these programs have made toward improving the way we build and maintain golf courses.

## A summary of USGA research

Project Area	Sub-project	University/Investigator
Green Construction	10 to 12 Projects with GCSAA	TBA
Turfgrass Breeding	Bentgrass Bermudagrass Bermudagrass Buffalograss Colonial Bentgrass Cool Season Poa annua Seashore Paspalum Zoysiagrass	Texas A&M U./Engelke USDA/Burton and Hanna Okla. State U./Talifaferro U. of Nebraska/Riordan U. of R.I./Ruemmele Rutgers U./Funk U. of Minnesota/White U. of Georgia/Duncan Texas A&M U./Engelke
Alternative Pest Management	Mole Cricket Sting Nematode Control Allelopathy White Grubs Disease Suppression Summer Patch	N.C. State U./Brandenburg U. of Fla./Giblin-Davis U. of Arkansas/King U. of Kentucky/Potter Cornell U./Nelson Rutgers U./Kobayashi
Resistance	Rhizoctonia solani Disease Disease Herbicides and Disease	Mississippi State U./Krans Michigan State U./Vargas Virginia Poly Technic U./Ha. Rutgers U./Day
Cultural Practices	Effluent Water Buffalograss Water Use Seeded Bermudagrasses Low Temperature and Drought Drought Stress Putting Green Bermudagrass	U. of Arizona/Brown U. of Nevada/Bowman U. of Georgia/Carrow Clemson U./Barid Texas A&M U./White Auburn U./Dickens
Pesticide and Nutrient Fate	Leaching Leaching/Volatilization Pesticide Leaching Pesticide Leaching/Runoff Pesticide Volatilization Pesticide Degradation Rates Runoff Management Transport Modeling Pesticide Fate Modeling	Michigan St. U./Branham U. of Ca. Riverside/Yates U. of Fla./Snyder U. of Ga./Smith U. of Mass./Clark Purdue U./Turco Oklahoma State U./Baird U. of Maryland/Carroll Stuart Cohen & Bud Smart
Golf Benefits	USGA Sanctuary Project Cooperative Sanctuary Project Wildlife Links	Golf House/Snow NY Audubon/Dodson National Fish and Wildlife Foundation/Stangel

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**\$3,400,000** - THE LINKS GROUP, Myrtle Beach, SC  
Refinance of leases on 144 holes of golf plus a credit line for future acquisitions.

**\$11,500,000** - THE LODGE OF FOUR SEASONS, Lake of the Ozarks, MO  
Refinance of a 311-room lodge, 211-slip marina and 45 holes of golf.

**\$5,000,000** - KEMPER SPORTS MANAGEMENT, Chicago, IL

**\$2,250,000** - OLDE POINT GOLF & COUNTRY CLUB, Wilmington, NC  
Refinance of 18-hole course plus construction funding for clubhouse expansion.

**\$2,500,000** - GEORGETOWN COUNTRY CLUB, Georgetown, MA  
Refinance of a 9-hole public course plus construction funds for additional 9 holes.

**\$3,500,000** - THE SEA RANCH GOLF LINKS, Sea Ranch, CA  
Refinance of a 9-hole public course plus construction for a second nine holes.

**\$2,400,000** - WHITTIER GC & VICTORIA GC, Los Angeles, CA  
Refinance of two 18-hole public courses.

**\$5,000,000** - THE BEACH CLUB GOLF LINKS, Ocean City, MD  
Refinance of an 18-hole course and construction financing of new 18-hole course.

**\$3,600,000** - THE HERITAGE GOLF CLUB, Atlanta, GA  
Construction of an 18-hole course and a line of credit for new acquisitions.

**\$5,200,000** - AVILA BEACH RESORT, San Luis Obispo, CA  
Refinance of an 18-hole resort golf course.

**\$4,750,000** - CRYSTAL SPRINGS GC, Sussex Co., NJ  
Refinance of an existing course to draw out equity to construct a new course.

**\$3,250,000** - BLACK BEAR GC, Sussex Co., NJ  
Construction of a new 18-hole course, cross-collateralized with Crystal Springs

**\$1,800,000** - CHESTNUT HILL GC, Darien, NY  
Refinance of existing 18-hole public course.

**\$2,000,000** - DEERFIELD CC, Rochester, NY  
Acquisition of a 27-hole public course.

**\$8,500,000** - ANGEL FIRE RESORT, near Taos, NM  
Acquisition of a ski mountain, golf course, hotel, RV park & other amenities.

**\$9,500,000** - GOLF CLUB of ILLINOIS & BURR HILL GC, Chicago, IL  
Refinance GCI, acquire Burr Hill and provide a line for future acquisitions.

**\$7,000,000** - ELY BOWLING, Northern NJ  
Refinance of 4 bowling centers in northern NJ and southwestern NY.

**\$6,700,000** - BADLANDS GC, Las Vegas, NV  
Take-out of course construction loan, plus provide for clubhouse construction.

Don Rhodes  
Vice President

Jerry Hinckley  
Bobby Fitzpatrick

Barbara Welty  
Rick Nekoroski

Debbie Suppa  
Nancy Loucks

400 Northridge Road, Suite 520  
Atlanta, Georgia 30350  
(770) 993-1202 fax (770) 643-0344



# Bubble level a multipurpose wonderkind on the course

By KEVIN ROSS

In today's fast-paced world of high-technology, high-priced gizmos, some very inexpensive items can still be of value. One of my favorites, with a mere \$3 to \$5 price tag is the 360-degree bubble level.

I started using this device years ago when I challenged my assistant at that time, Glenn White (now superintendent at Campbell Scottish Highlands in New Hampshire)

to make sure the irrigation heads he was working on were "perfectly level."

After completing the job and informing me they were perfect, I came up with the idea to check them with a bubble level. Using the level, we found not one head was perfect but



ON THE GREEN

all were close. Since that day, we decided to use the bubble level as a standard tool whenever installing or leveling irrigation heads.

With this device, you can have your heads absolutely perfect for maximum operational effi-

ciency. Some heads that are on severe slopes may have to be compensated slightly, but in most cases, it can be used for the majority of heads.

This tool can be used for many other purposes as well:

- What about putting it on top of your spray tank to make sure it's level so you can fill to the proper amount?
- What about leveling posts and stakes? Just put it on the top and you're all set (as long as the top is square).
- Do you know if you have level spots on greens for accurate Stimpmeter readings? Just get a 2- by 2-foot piece of plywood, lay it on the green and put the bubble level on the plywood. I'll bet not many of us do have truly level spots.

Some golf course construction companies use a large (12-inch diameter) bubble level as a quick way to measure the slope of a green. They have calculated the movement of the bubble to correspond to the surface slope.

Some golf supply companies have installed a bubble level in the handle of cup cutters to aid in cutting a straight pin.

Whatever the use, I'm sure this device can become very valuable in your toolbox.

If you decide to use it as part of your irrigation maintenance, first extend the challenge to your irrigation technician to level a couple of heads without it. Then check his work with the level. I think you will find you can have some good fun with this challenge.

A Golf Course News Advisory Committee member, Kevin Ross is director of golf course management at Country Club of the Rockies in Edwards, Colo.

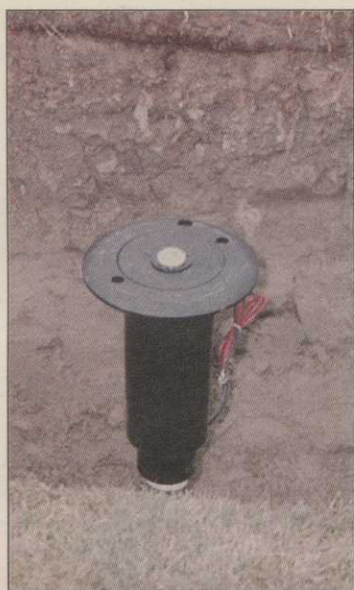
## Dougherty wins Pa. presidency

LANCASTER, Pa. — John Dougherty of Overlook Golf Club here has been elected president of the Central Pennsylvania Golf Course Superintendents Association, succeeding Samuel R. Snyder of Hercules Country Club in Harrisburg.

Dougherty will serve alongside Vice President H. Jim Loke of Bent Creek Country Club in Lititz and Secretary/Treasurer John Gehman of Butter Valley Golf Port in Bally.

The board of directors includes Daniel Achenbach of Foxchase Golf Club in Stevens, W. Richard Kauffman of Village of Old Hickory Golf Course in New Holland, Melvan Leaver of Brookside Country Club in Macungie, Terry Morgan of White Rock Inc. in Fayetteville, Thomas Ocepek of Heidelberg Country Club in Bernville and Ted Zabrenski of Brookside Country Club in Pottstown.

GOLF COURSE NEWS



Kevin Ross' 360-degree level.

Stock finish is powder coated Hunter Green paint. Other colors are available in baked enamel finish.

Rugged steel, channel iron frames formed to a tested "No-Tip" design.

Available with either oak or fir seat boards; finished with a clear sealer.

Designed first and foremost, to be a comfortable bench to sit on.

Light-weight, yet very strong... can be moved with ease.

## You Provide the Setting. We'll Provide the Seating.

...comfortable, durable, affordable seating that looks great anywhere on your course. And, like every Par Aide product, this 6' bench comes with a reputation — one that assures you only the very best materials are used. Take a close look: fine craftsmanship is evident everywhere. Like the hand finished welds on the steel channel iron frames...the pre-drilled, self locking holes in the slats. And a smooth sand- ed, snag-free finish in your

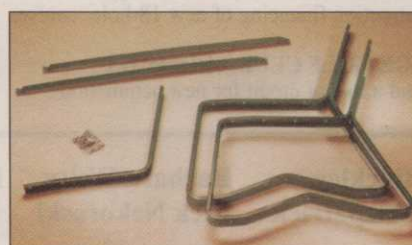
choice of two woods. Add to this the fact that you can assemble the whole thing in just ten minutes and you've got a rugged, yet light-weight bench with a tested, non-tip design that will give many years of low maintenance service. Just like Par Aide's other quality products, this new "Park Bench" has already proven itself to greens committees, course members and superintendents alike when it comes to working within budgets.



Choose from premium, straight grain oak or fir seat boards; impeccably finished and pre-drilled for easy assembly.



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CIRCLE #131/GCSAA BOOTH #3649



# SECOND OF TWO PARTS

# The fully equipped golf course

By TERRY BUCHEN

This month we conclude the capital equipment outlay for a high-end, 18-hole golf course, listing nearly everything a superintendent would need to do the job right.

These listings are also helpful for new courses going through the grow-in and initial budget process for all items that are needed. Last month we listed golf course maintenance equipment; shop equipment and hand tools; and irrigation and drainage equipment.

This month we conclude with listings for office and lunchroom equipment; golf course accessories; and buildings and amenities.

## SAVVY SUPERINTENDENT



### OFFICE & LUNCHROOM EQUIPMENT & FURNISHINGS

Lamps, as needed; Chairs, all types.  
Desks — Superintendent, Assistant, Mechanic.  
File Cabinets — Superintendent, Assistant, Mechanic.  
Telephone System — 2 Telephone Lines, 1 FAX Line.  
Computer, Color Printer, Color Monitor, Modem-Tied into Irrigation System  
Typewriter; Fax Machine; Photocopier; Answering Machines; Blueprint/Drafting Table; Blueprint Files  
35mm Camera; Polaroid Camera; Paper Cutter; Postage Scale; Weather Radio; Smoke Detectors; Slide Projector; Movie Screen; Remote Rain Gauge; Calculator; Window Coverings; Vacuum Cleaner; Portable Two-Way Radios, Chargers, Roof Antenna, Base Radio, Etc.; Weather Computer-Lease Monthly Portable Cellular Telephone.

### LUNCHROOM EQUIPMENT & FURNISHINGS

Lunchroom Tables, Stackable Chairs, Window Coverings, Electric Drinking Fountain, Glass Enclosed Employee Bulletin Board, Range/Oven, Microwave Oven, Refrigerator, Exhaust Fan, Garbage Disposal Dry Erase Marker Bulletin Board, Time Clock, Lockers, Washer/Dryer, Ice Cube Machine for Employee Water Jugs.

### GOLF COURSE ACCESSORIES

<b>TEE EQUIPMENT:</b>	
22 Portable Ball Washers, 2"	
Aluminum Pipes, Bases, Waste	
Receptacles Spike Brushes, Hole	
Number Plaque, Complete	\$7,500
144 Cotton Tee Towels	350
80 Brass yardage Plaques Buried	
in Tee Surface	3,500
44 Tee Benches	4,000
2 Scorecard Boxes for # 1 & 10 Tees	500
Ballwasher Soap	125
300 Tee Markers (includes set of spares)	5,000

<b>GREENS EQUIPMENT:</b>	
36-Flagsticks @ \$30	\$1,080
36 Flags @ \$30	1,080
36 Aluminum Cups @ \$15	540
2-Aluminum Cup Setters @ \$30	60
2-Hole Cutters @ \$100	200
2-Cup Pullers @ \$15	30
2-Cup Hole Cleaners @ \$40	80
10-Dew Whipping Poles @ \$40	400

### BUNKER EQUIPMENT

300-Bunker Rakes @ \$25	\$7,500
6-Maintenance Bunker Rakes @ \$30	180

### PRACTICE PUTTING GREEN

27-Practice Green Markers @ \$20	\$540
27-Practice Green Cups @ \$15	405

### CLUBHOUSE EXTERIOR

5-Spike Brushes @ \$50	\$250
1-Electric Spike Brush	500

### YARDAGE MARKERS

150-Yard Markers, e.g. Rocks, Trees, Shrubs, Stakes	\$2,000
---	---------

### HAZARD STAKES

Out of Bounds, Water and Lateral Water Hazard Stakes	\$3,000
--	---------

### DRIVING RANGE/CHIPPING GREEN/TARGET GREENS

Ball Picker with Maintenance Cart	\$10,000
Practice Range Club Cleaner	500
Practice Ball Canvas Bags	250
20-Bag Racks	1,000
Flagsticks, Flags, Cups for Target	
Greens and Chipping Green	\$500
Electric Golf Ball Washer	2,000
300 Dozen Range Balls	9,000
Yardage Plaques buried in Tee Surface	500

### LASER MEASURE GOLF COURSE

Have local golf association do it or rent Laser and do it in-house \$2,500

### SPRINKLER HEAD YARDAGE

Yardage Plaques w/3 yardages each 5,000

### GOLF CAR ACCESSORIES

50 Portable Water Coolers w/hooks for handles @ \$15 \$750

### GOLF CARS

50 Golf Cars with:  
Electric with 220-Amp Batteries or Gasoline with 4-Cycle Engine; Power Rib Tires; 4-Wheel; Sweater Basket; Quad Cup Holders; Tops Optional on all or part; Front & Rear Spike Guards; Plexiglass Fold-up Windshield; Hub Caps; Battery Level Indicator or Fuel Gauge; Ash Tray @ \$3,500 \$175,000  
Lease  
Lease/Purchase

### GOLF COURSE BUILDINGS & AMENITIES

#### GOLF COURSE MAINTENANCE BUILDING:

12,000 Square Feet Minimum Size

#### SOIL STORAGE BUILDING:

1200 Square Feet Minimum with Roof and Concrete Floor w/Apron

#### IRRIGATION PUMPHOUSE:

Large enough to build shelves for all pipe, parts, fittings and accessories along both sides of the length of the building.  
Provide enough room for Chemigation, Fertigation, Acid Injections Systems and Possibly Tank Storage as well.

#### RESTROOMS:

Provide half-way through round on front and back nines

#### RAINSHELTERS:

Provide possibly in conjunction with Restrooms and about every 3 holes with Lightning Rod Protection throughout.

#### DRINKING FOUNTAINS:

Provide at least every 3 holes, possibly every-other hole. Piping and Electricity could be installed in conjunction with the Automatic Irrigation System.

#### TELEPHONES:

Telephone Lines could be added at the 9th and 18th tees for ordering Food from the Halfway House. Telephones could also be added at the Rainshelters/Restrooms for Emergencies.

#### CLUBHOUSE:

7,500 Square Feet or Larger

#### GOLF SHOP:

Could be separate building near 1st & 10th Tees. 750 Square Feet or larger. Possibly need Television Cameras for viewing of 1st and 10th Tees.

#### TENNIS COURTS:

Outdoor with possible Indoor Courts

#### TENNIS SHOP:

250 Square Feet or larger with full view of all courts. Possibly need Television Cameras for full view of Courts.

#### SWIMMING POOL:

Outdoor Pool?  
Indoor Pool?  
Diving Boards?  
Olympic Size?  
Wading/Children's Pool?  
Jacuzzi Hot Tub?  
Washer/Dryer for Towels?

#### PADDLE TENNIS:

Off-Season Activity

#### COTTAGES:

4 Bedrooms/separate Bathrooms for each Bedroom. One or Two beds per Room so 1 or 2 foursomes can stay in each building. 2 Bedroom Units w/Bathrooms with two beds in each room to house 1 foursome as an option.

#### DRIVING RANGE/PRACTICE AREA:

Have Separate Building to House Practice Balls, Bag Racks, Golf Ball Washing Machine, Golf Ball Buckets/Canvas Bags, Flagsticks, Etc. as an option to storing them in the golf shop.

#### PRACTICE PAR 3 COURSE/PRACTICE HOLES:

9 Hole Par-3 or 3-Hole Practice Course

#### BOWLING GREEN:

Lawn Bowling Green that can double as a perfectly level Practice Green

#### CROQUET COURT:

Could be played on Clubhouse Lawn or on Bowling Green

#### TRAP & SKEET RANGE:

Usually in an area safe from housing or any other activities.

#### SOCCER FIELD/FOOTBALL FIELD:

For exhibitions or for Members Children to Practice On.

#### PRACTICE FAIRWAY:

For practice back-and-forth by Golfers

#### BYE HOLE:

19th Hole for settling Ties or for additional Wagering/Fun.

#### EXTRA HOLE:

Actual extra hole so one hole can be taken out of

play for maintenance, construction purposes after initial building of the course.

#### INDOOR TEACHING FACILITY:

Indoor Hi-Tech Teaching Facility with Large Garage Doors so students can hit Practice Balls onto Range during good weather or Bad.

#### WARM-UP TEE:

Practice Tee, located adjacent to number 1 Tee, that can be used while golfers are 'waiting' to tee off on number 1. Balls can be hit onto adjacent driving range.

#### WATER FOUNTAINS:

Provide Electricity, in conjunction with installation of Automatic Irrigation System, for Decorative Water Fountain for Aesthetic as well as for circulating the lake water for Algae reasons.

#### BIRDHOUSES/NESTING BOXES/FEEDERS:

Provide areas for attracting birds and other wildlife.

#### PUTTING COURSE:

Similar to Himalayas Putting Course at St. Andrews

#### HORSEBACK RIDING/STABLES:

Provide trails adjacent to golf course.

#### FISHING:

Stock course ponds with sport fish.

#### TURF NURSERY:

Tee Chemical Testing and Emergency Repairs to all areas on course.

#### EMPLOYEE HOUSING:

Provide on-site housing for:  
Superintendent  
Turf Students  
Assistant Superintendent  
Chef  
Pro  
Manager  
Owner

#### TREE NURSERY:

Grow trees in-house for use on golf course grounds

#### GREENHOUSE:

Grow all types of flowers in-house.

#### GATEHOUSE:

Provide gate for club entrance and Gatehouse for Security Guard and/or telephone, touch pad, plastic card gate opener, etc.

#### FENCE/WALLS:

Provide protection along property boundaries

#### FIRE HYDRANTS:

Per local Fire Code that could be used as a back-up irrigation water source.

#### TRAFFIC LIGHT:

Separate Traffic Light at Entrance/Exit to Course.

#### BICYCLE PATHS/JOGGING TRAIL:

Separate Bicycle Paths, from Golf Car Paths, for use on club grounds. Could be used in conjunction with Joggers, Roller Blades Roller Skater.

#### PAR COURSE:

Exercise many-position course.

#### CHILDREN'S PLAYGROUND:

Near Pool or Par Course

#### PICNIC/BARBECUE AREA/TENTED AREA:

Provide nice Member Area for all size outdoor functions.

#### HELICOPTER PAD:

Windsock, Landing Lights, Concrete Area with Large 'H' Painted



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Nothing hits a golf course like a Steiner Reel Mower. Independent floating hydraulic drive mower heads are available in 4, 6 or 9 blade configurations, providing a quality, precise cut in any cutting situation. And our fine screw bedknife adjustment and single-lever height of cut adjustment provide you the greatest flexibility in your particular cutting situation. Don't compromise the quality finish of your course. For the best reel mower you can own, contact your authorized Steiner dealer.

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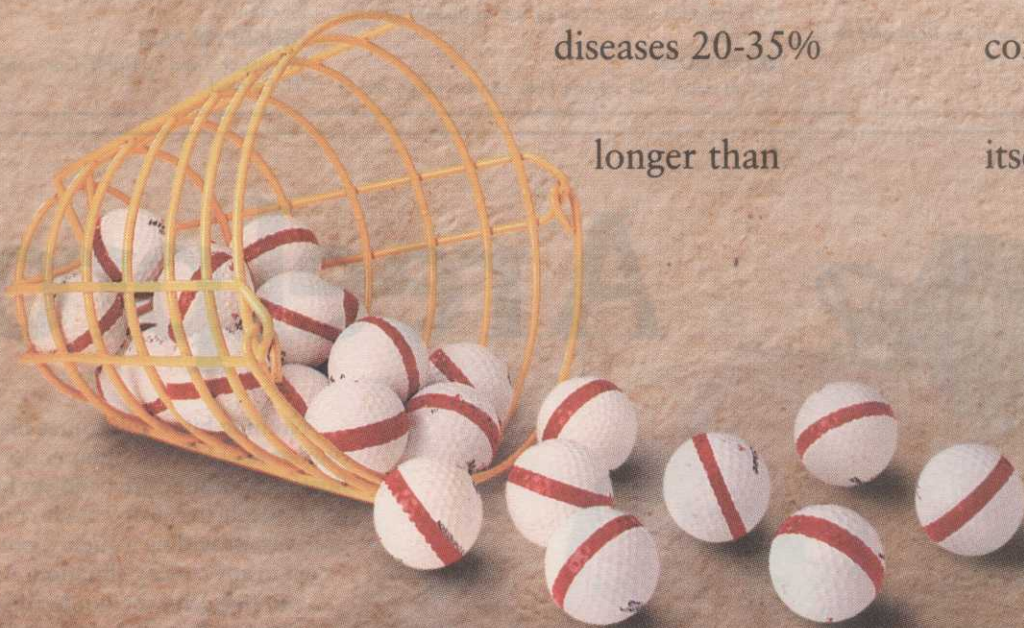


# NOT EVERYONE ON A GOLF COURSE WANTS LONG DRIVES AND LOW SCORES.

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Golfers worry about breaking par. You'd rather break the stranglehold turf diseases can put on your fairways, tees and greens. Sentinel® fungicide can help. Sentinel offers the longest control and best performance on brown patch, dollar spot, summer patch and 11 other turf diseases—at the lowest rates. Sentinel controls the toughest

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longer than



other systemic fungicides. And it won't quit working at critical times, either. Like, say, just before tournament weekend. What's more, Sentinel offers the protection you need at far lower rates than competitive products—anywhere from nine to 100 times less active ingredient. That minimizes worker exposure and lessens the environmental load. When it comes to performance, Sentinel has proven itself on 12 different varieties of turfgrass.

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## Books target personnel, finances

CHELSEA, Mich. — Books aimed at training superintendents to deal with personnel and financial management have been published as official publications of the Golf Course Superintendents Association of America.

Ann Arbor Press, Inc. has published *Human Resource Management for Golf Course Superintendents* by Robert Milligan and Tom Maloney and *Superintendent's Handbook of Financial Management* by Raymond Schmidgall.

The resource management book provides basic management principles and techniques that view people as the most important asset. Five functions are detailed in the book using

every-day situations to illustrate the key points. Designed to serve as a quick reference, or a self-teaching guide, the book features numerous techniques and practical examples.

Every aspect of management is covered from planning abilities to building leadership and communication skills, maximizing employee performance, selecting and training new employees, avoiding the mistakes that cause low morale and poor performance, and conducting em-

ployee performance evaluations.

The financial management manual was written to make complicated subjects easy to understand by providing simple demonstrations and useful exercises. It teaches how to use financial statements, balance sheets, income statements, accounting procedures, operating budgets and more.

## LITERATURE UPDATE

## Mechanics newsletter full-service

WESTON, Mass. — Not only have golf course mechanics united, they have an official newsletter, *Clippings*.

Complete with news, columns and classified advertisements — and some entertaining graphics — *Clippings* was a full eight-page 8-by-11 edition in November, touching all the "hot buttons" for mechanics.

Published by the Golf Course Mechanics Association (GCMA), its stories range from equip-

ment schools to technical tips, to features on such topics as communications and changing equipment manufacturers.

Comments, questions and story ideas may be directed to GCMA President Steve Lucas at 275 Meadowbrook Road, Weston, Mass. 02193; or Vice President Brian Alford of Dedham Country & Polo Club at 36 Elm St., Wakefield, Mass. 01880; telephone 617-245-6092.

## Turfgrass disease atlas, irrigation manual published

CHELSEA, Mich. — Ann Arbor Press will soon publish two new books, *Color Atlas of Turfgrass Diseases on Golf Courses* by Dr. Toshikazu Tani and Dr. James Beard, and *Guide to Golf Course Irrigation System Design and Drainage* by Edward S. Pira.

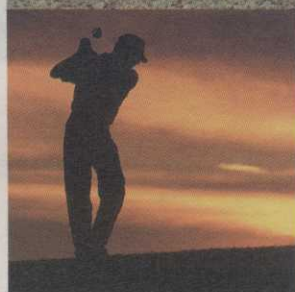
Tani's book was originally published in Japan and sold more than 2,700 copies. Beard discovered it during his travels and decided to translate the work and expand it for the American market.

The book presents 350 color photographs of all major turfgrass diseases that occur in warm- and cool-season grasses. Maps assist in disease identification by providing geographical locations where various diseases and pathogens are likely to occur. It also provides color photos of step-by-step guidance on diagnostic techniques for laboratory analysis that can be used by superintendents and turfgrass practitioners. The cost is \$79.95.

Pira's irrigation book has been used as a textbook for years, but this, its eighth printing, marks the first time it has ever been published as a hardcover, typeset book. It has been completely revised with new exercises, practical examples, numerous new figures and expanded sections covering a wide variety of irrigation system components.

The book guides readers through every phase of an irrigation program, from design to construction, from program scheduling to operation and maintenance. Superintendents will find it useful to plan effective irrigation systems, ensure appropriate capacity, ease installation and provide practical operation and maintenance. The cost is \$55.

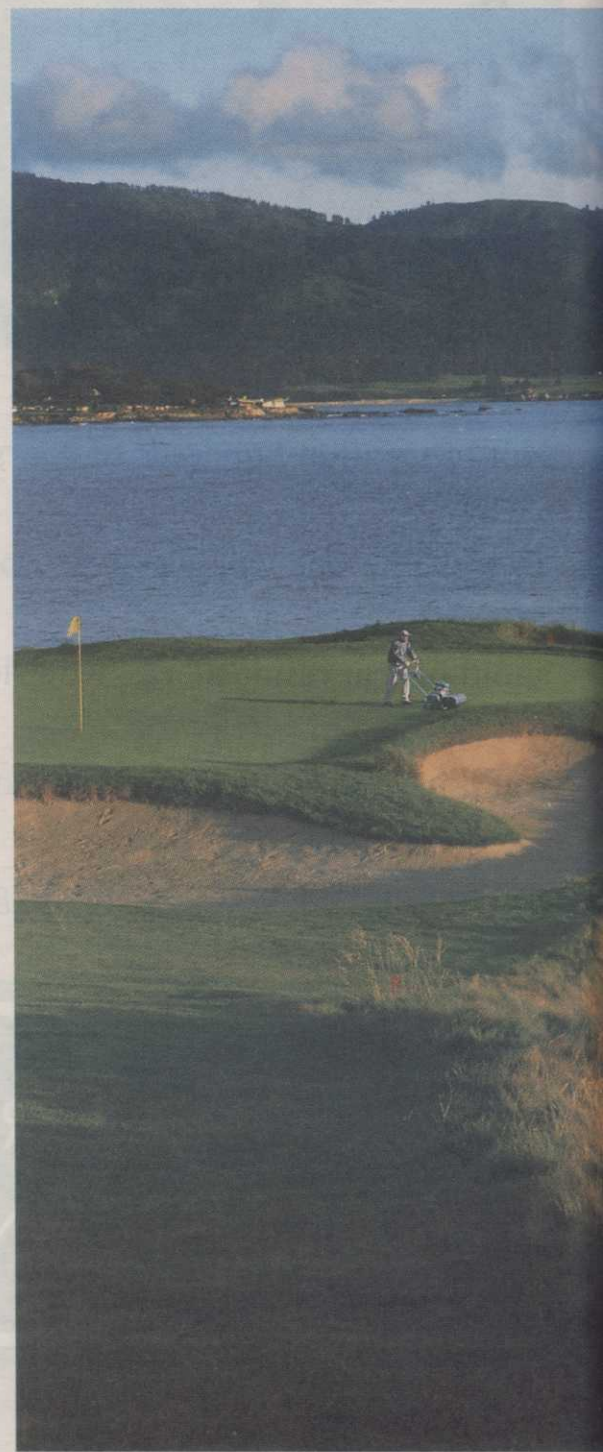
Both books are available from Ann Arbor Press Inc., 121 South Main Street, PO Box 310, Chelsea, MI 48118; telephone 800-858-5299.



To all those superintendents  
who demand perfection and  
productivity, we dedicate a  
full range of equipment.

"The partnership between Ransomes and Pebble Beach promises to contribute greatly to the maintenance of the course's image. Shared goals and common philosophies are at the heart of this working partnership."

Ted Horton  
Vice President of Resource Management  
Pebble Beach Company  
Pebble Beach, California





# Chapman follows the sun to South Africa

LOST CITY, South Africa — Having spent the past two years supervising construction and grow-in of Tierra del Sol in Aruba, Dutch Caribbean, **Keith Chapman** has taken a position overseeing the two golf courses at Sun City Resort in the Lost City.

A certified golf course superintendent, Chapman is in charge of The Lost City Golf Course and Gary Player Country Club at the Lost City — both part of the resort. The courses

host the annual Million Dollar Challenge, and a major renovation of the older course is imminent.

FOUNTAIN HILLS, Ariz. — Course superintendent

**Ron Ruppert** has been cited as an integral member since construction began at SunRidge Canyon Golf Club here. The course opened Nov. 18 and has already received recognition for its challenging design and



WHERE THEY'RE GOING

breathtaking canyon setting.

His expertise and experience have brought the design out of the ground and guided SunRidge

Canyon from a vision to reality, said Tom Patrick, vice president of golf operations for Sun Cor Resort & Golf Management. Patrick explained, "It is Ron's vast experience and attention to detail, both during the develop-

ment process and as the course continues to mature, that add to the golfer's enjoyment of playing SunRidge Canyon."

Prior to joining SunRidge Canyon, Ruppert was associated with Las Campanas in Santa Fe, N.M., and Desert Mountain in Scottsdale.

SCOTTSDALE, Ariz. — **Todd Norton** has been named superintendent at the new Kierland Golf Club, a 27-hole, daily-fee Marriott Golf course expected to open in January. Norton's most recent position was at TPC at Scottsdale and he has prepared

for six Phoenix Open Tournaments.

ORLANDO, Fla. — Grand Cypress Resort has promoted **Sean Duffy** to the position of senior superintendent. Duffy is in charge of the North, South and East nines, the Grand Cypress Academy of Golf, the putting course and the pitch-n-putt course.

Having started as a spray technician on the East course in 1993, he was named assistant superintendent of the East Course in 1994, and, most recently, was superintendent of the New course.

**Tommy Alex** remains director of maintenance of the entire resort.

WICHITA, Kan. — Flint Hills National Golf Club here has named **Paul Jonas** superintendent. Jonas had been at Crestview Country Club.

ST. MARYS, Kan. — **Kurt Erb**, former assistant superintendent at Manhattan Country Club, is the new superintendent at St. Marys Public Golf Course here.

ELLINWOOD, Kan. — **Tom Auerbach** has assumed the position of superintendent at Grove Park Golf Course here.

TOPEKA, Kan. — Topeka Public Golf Course has hired a new golf course superintendent — **Allan Hayes**. Hayes was with the Golf Course Superintendents Association of America in Lawrence.

ANDOVER, Kan. — **Paul Naudet** has left Terradyne Resort Hotel Golf Course here and joined Clear Creek Golf Course in Shelbyville as superintendent. Naudet has been succeeded by Wes Turner.

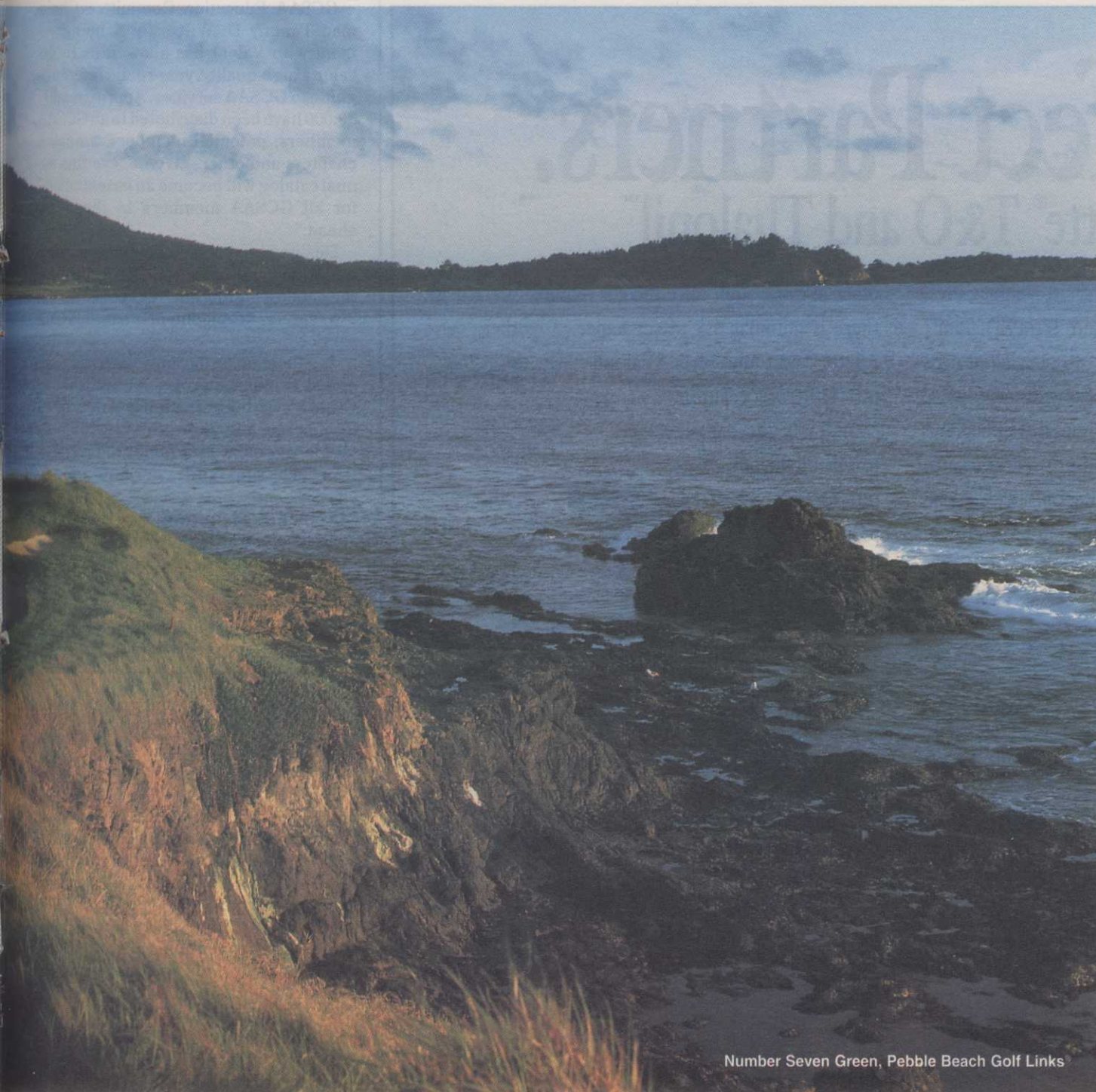
WICHITA, Kan. — **Pete Frandsen** has succeeded Mike Jornan as golf course manager for the city of Wichita.

MANHATTAN, Kan. — **Mark McKain** is leaving Custer Hill Golf Course in Fort Riley and joining Stag Hill Golf Club here as superintendent.

## NH PRESENTS SCHOLARSHIPS

The New Hampshire Golf Course Superintendents Association (NHGCSA) presented four \$500 scholarships during its winter turf conference. Recipients were Scott Bower, Michael Gonnert, David Smith and Sam Woodger.

The NHGCSA also donated \$5,400 toward research in 1995, supporting Stan Swier's study on the use of pyrethroids and new formulations of Dursban to control ants on putting greens, and Dr. Anna-Marie Pennucci's research on turf variety trials at Amherst Country Club.



Number Seven Green, Pebble Beach Golf Links

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## GCSAA registers as lobbyist

**L**AWRENCE, Kan. — The GCSAA board of directors agreed with a Government Relations Committee recommendation to register the association and appropriate staff as lobbyists in order to advocate positions on legislative issues in Congress. The committee also supported taking advantage of opportunities to use the grassroots, or member superintendents as voters, to influence government decisions. A campaign was set in motion to encourage GCSAA members to ask their senators and representatives in Congress to urge the Environmental Protection Agency to address a problem with the Worker Protection Standard (WPS). The WPS became an issue for GCSAA when an Interpretative Guidance Work Group

determined that WPS should cover the portion of golf courses where sod, ornamentals and trees are grown for replacement purposes as these plants would normally have "commercial value."

Previously, golf courses were exempted from WPS because the rule covered only agricultural workers and did not apply when plants are grown for other than commercial or research purposes. In addition, the 11-member panel recommended that GCSAA expand its influence by participating in coalitions, including the Alliance for Reasonable Regulation; the Coalition of Occupational Safety and Health; and the Grassroots Endangered Species Act Coalition.

## ASSOCIATION UPDATE

## GCSAA, Valent join forces in project to expand education

**T**he Golf Course Superintendents Association of America (GCSAA) and the Valent S.A. Corp. have agreed to continue a partnership developed this year to produce a GCSAA Professional Development Catalog.

Distributed for the first time in 1995, the Professional Development Catalog provides more information on GCSAA educational opportunities and association services than any previous publication.

Under the partnership agreement, Valent U.S.A. renewed its commitment to underwrite the catalog for three

years, through the 1998-99 education season.

"This Professional Development Catalog is your key to opening the door to current information and new professional opportunities," wrote Philip A. Nelson, president and CEO of Valent, in the catalog.

"Valent is a strong believer in the value of education and personal development efforts. We believe our valued customers in the golf course industry continuously demonstrate their professionalism and desire to improve not only their future, but the future of the industry."

GCSAA Education Committee Chairman Tommy D. Witt said: "The agreement with Valent has allowed us to develop a high-quality, year-round reference guide to GCSAA services. Approximately 30,000 have been distributed to all GCSAA members, potential members, affiliated chapters and others. We believe this annual catalog will become an essential tool for all GCSAA members in the years ahead."

Designed to provide members a more integrated approach to GCSAA services, the catalog highlights GCSAA's:

- career development materials and services;
- education programs, including regional seminars, programs available at GCSAA's 67th International Golf Course Conference and Show, the Environmental Management Program, the Certification Program and correspondence courses; and
- technical information services, such as electronic search services, audiovisual materials and bookstore listings.

Free copies of the 1995 Professional Development Catalog may be obtained by calling GCSAA at 800-472-7878.

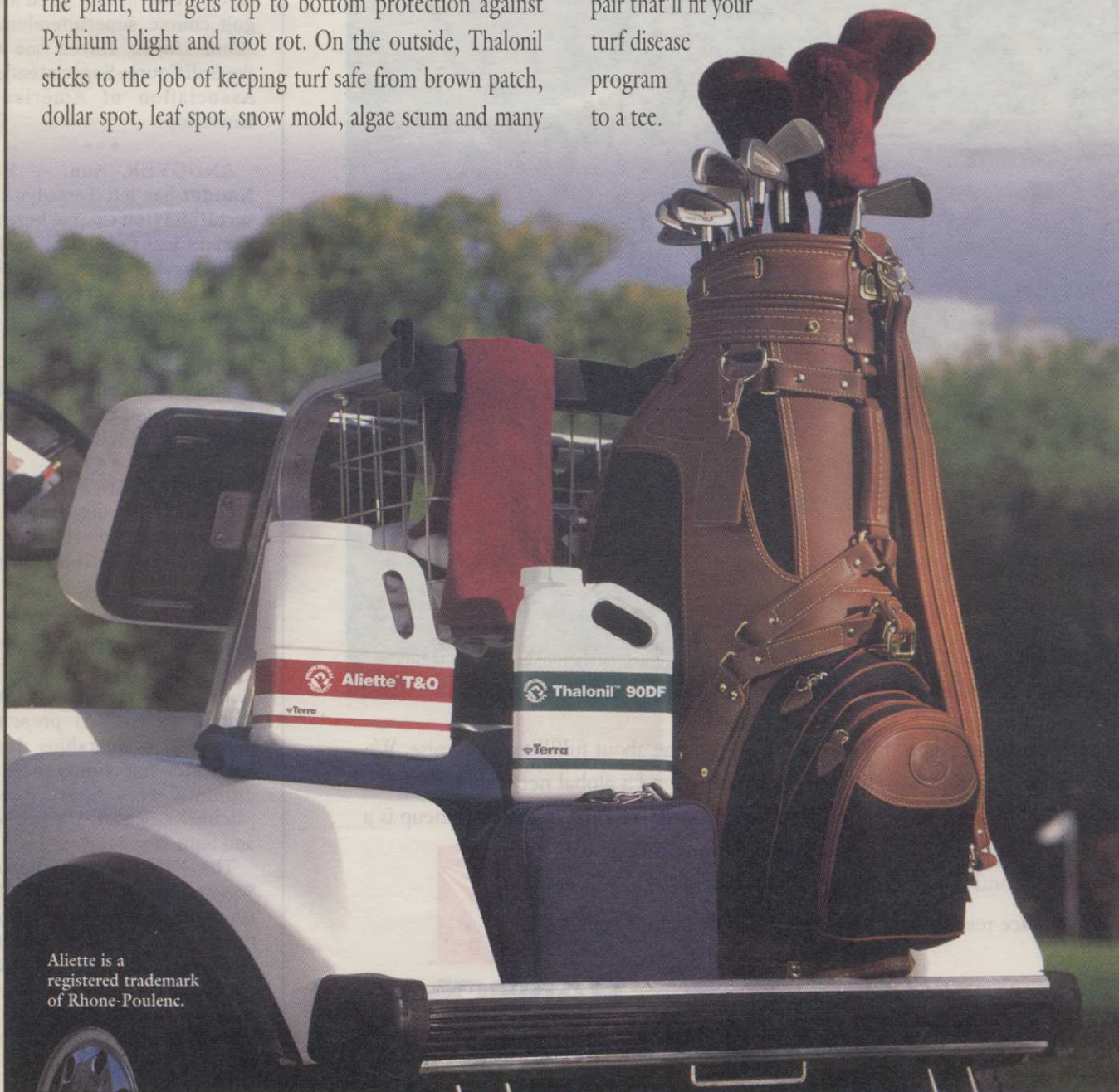
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## Certification offered OPE technicians

**AUSTIN, Texas** — The Outdoor Power Equipment (OPE) technicians certification program has released a new registration form and nationwide test locations and dates for January through March.

The certification program has become an independent organization. Virgil Russell is director of certification. As an independent agency, the OPE technicians certification program will expand to include:

- Certification of all engine and equipment technicians in the categories of engines, outdoor power equipment, golf and commercial turf and power generation.
- Development of a training council consisting of service and training professionals from education and industry.
- Development of an educational foundation to provide support to schools and providing instruction for the industry.

People interested in more information on the program may contact the OPE technicians certification program at 512-442-1788, or by fax at 512-442-1789.



## CEUs can add up under new GCSAA conference concept

LAWRENCE, Kan. — The GCSAA will introduce a new mini-conference concept this year that will allow attendees at regional turf shows to accumulate continuing education units at a faster rate.

"Seminar clusters" will supposedly make it easier to take advantage of GCSAA's educational topics by setting up a sort of mini-conference.

According to the GCSAA newsletter Newsline, each seminar cluster will feature five seminars offered over a three-day period. Topics will be organized around themes such as environmental and regulatory issues; golf

course design and construction; turfgrass science; pest control; business management; personnel training and management.

GCSAA is encouraging superintendents interested in the seminar-cluster concept to make their interest known to their state turfgrass associations or foundations which could offer the educational opportunities at their annual conferences or trade shows.

## PR panel promotes grass-roots strategy for supers

LAWRENCE, Kan. — The Public Relations Committee of the Golf Course Superintendents Association of America met at association headquarters here to discuss implementation of a grassroots strategic plan. The committee also made recommendations for the third season of *Par for the Course*, GCSAA's television show on ESPN.

Committee Chairman R. Scott Woodhead of Valley View Golf Club in Bozeman, Mont., said: "We have a number of new programs being developed that will help our members tell the public about their role as environmental stewards. A key element to the success of many of these programs is active participation of our affiliated chapters."

For example, affiliated chapters may take the

lead in the Audubon Cooperative Sanctuary Program for Schools, developed by Audubon International and sponsored by GCSAA. Chapters can form partnerships with local elementary schools to teach students about nature, including activities that range from building bird-feeding stations to taking nature walks on golf courses.

Communication with the media is another important part of the strategic plan. The committee reviewed proposed guidelines that will teach members and chapters how to work more effectively with local media. Other materials will help members educate the media about the superintendent's responsibilities at a golf course and how the course can serve as a community asset.

## Development catalog released

The Golf Course Superintendents Association of America has distributed a new, comprehensive Professional Development Catalog that provides more information on educational opportunities and association services than any previous publication. Presented in partnership with Valent U.S.A. Corp., the catalog provides members a more integrated approach to GCSAA services.

The Career Development section outlines services and materials that can help individuals define a career path and achieve related career goals. For example, the Employment Referral Service, available only to GCSAA members, is a weekly list of employment opportunities. The Employment Resources Kit offers tips on topics such as how to network and prepare for interviews.

More than 160 GCSAA seminars in 80 locations across North America are outlined. Seven seminars, including "Lake and Aquatic Plant Management," "Spanish and Golf Course Management," and "The Superintendent as Grow-in Manager" are offered for the first time in 1995-96.

Two new correspondence courses: "Emergency Planning and Community Right-To-Know," and "Personal Protective Equipment for Pesticide Applicators," have been added to the menu of options that allows students to learn at their own pace. Eight GCSAA correspondence classes, each designed to be completed in seven to 14 hours, are now available.

Also included in the catalog is information on two important GCSAA education programs: the Environmental Management and Certification programs.

GCSAA Technical Information Services listings form another large section of the catalog. TIS offers a wide selection of prepackaged materials with answers to some of the most common issues facing superintendents.

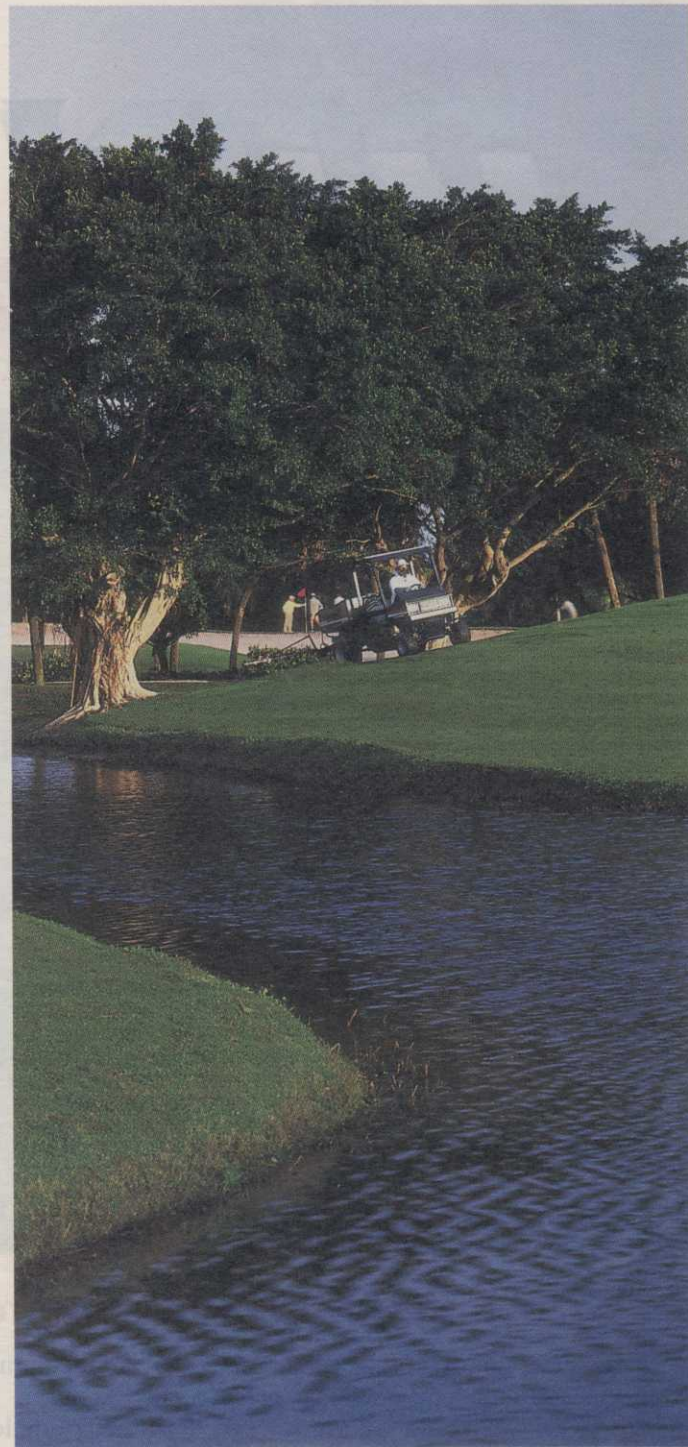


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## Roberts: Resources galore

Continued from page 21

organisms that live in the root zone of 1,000 square feet of turf, Roberts said: "They have to eat. Carbon is what they eat. The main source of carbon in the soil is the roots of the plants. Why are the best soils in Indiana, Illinois, Iowa? Because the soil there has humus.

"We don't need to wring our hands and say, 'It's too bad we don't have organic matter.' We can add humus, humic acids, or humates. There is concern that there is ink on newspapers. But the turf system will biodegrade all of that."

Any source of carbon to add to soil is helpful, he said, suggesting that superintendents "think about something other than NPK [nitrogen, potassium, magnesium] that feeds grass; think

of things that feed the micro-organisms that feed the soil."

Roberts, who operates a turfgrass consulting firm here called Rosehall Associates, lamented the fact that no leading agribusiness companies are promoting organic products for this purpose.

"They are promoting organic products as pesticides, fertilizers, or any other number of products — but not for building humus for the soil," he said. "So the world's industrial complex isn't behind this concept and it hasn't advanced rapidly.

"It's unfortunate that many of the more 'backward' countries know more about this than the industrialized countries. We get more interested in it as a means to cleaning up and reducing pollution than in recognizing the value of carbon compounds for creating and maintaining a living biological soil."

## A natural gas conversion

Continued from page 21

William Cook.

"It's costing us more [than would gas-powered vehicles], but we're charging golfers the same rate as we would for gas cars," Cook said. "Our leasing cost is about 50 percent higher than gas cars would be. But we're very excited about the conversion."

Pine Ridge is located on the environmentally sensitive Loch Raven watershed. BMGC is seeking permission to invest \$4 million to build another 18 holes, 3-

hole handicapped facility and nature trail there. BMGC officials hope the use of natural gas cars plus a \$300,000 environmental study that showed the golf course has not and will not affect the environment, will sit well with those deciding on the expansion, Slusark said.

While the economic benefits of natural gas cars are few, their environmental advantages are many. In fact, the federal government is pushing CNG as one way for companies to comply with federal Clean Air Act requirements that fleets of 10 or more vehicles (golf cars are exempted) begin converting to a clean, alternative fuel by 1998.

According to BGE literature, natural gas cars are cleaner and safer than gasoline-powered cars. CNG produces less ozone-forming hydrocarbons, carbon monoxide and toxic emissions than gasoline. CNG is stored above ground, eliminating the possibility of underground storage tank leaks.

Because it is lighter than air and dissipates rather than pools if it leaks, natural gas reduces the risk of ignition and groundwater contamination. CNG's ignition temperature is twice that of gasoline and storage cylinders are strong enough to withstand bullets, dynamite or high-speed collisions.

BGE claims natural gas performs better because of its higher octane rating, 130 compared to gasoline's 87.

Because CNG is stored in gaseous form and doesn't have to be vaporized before use, CNG vehicles also run better than gasoline vehicles on cold days.

Cook said the CNG golf cars actually have about 10 percent less power, although golfers rarely notice the difference. "And there's no doubt they operate better in cold weather," he added.

E-Z-GO is providing the golf cars at Pine Ridge. According to company Manager of Marketing Services Ron Skenes, gasoline vehicles are easily modified with a natural gas kit that replaces the gasoline tank. All other components — except the carburetor, which is replaced by a mixer — are identical in the gasoline and CNG models.

"We've seen some interest in converting to natural gas cars at other courses around the country," Skenes said. "It's not a huge demand, but we're keeping an eye on it."

The natural gas cars can complete two 18-hole rounds with a single filling, Skenes said. Refueling takes less than a minute. The cost of natural gas versus gasoline varies around the country. In some places natural gas is more economical, in others gasoline is a better buy, he said.

"The only added expense is installing a pumping system for compressed natural gas," Skenes said.

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CIRCLE #199



## Moore commentary

Continued from page 20

correctly, and apply the proper fungicide, disease activity will stop. Fungicides result in less-favorable growing conditions for the disease organism. It may even reduce the activity of the organism to the point that further injury is unnoticeable. However, it is also possible the fungicide will only help prevent the organism from causing as much damage as it would have without the application.

When this occurs, a superintendent might assume they diagnosed the wrong disease pathogen, or applied the wrong fungicide. Such assumptions are usually followed by shotgun applications of a variety of fungicides in the hope something will stop further injury. This can actually cause more problems, particularly with fungicides that have growth-regulation activity (see Lesson 6).

What must be realized is that, in addition to applying a fungicide, other steps must be taken to provide better turf growing conditions (resulting in a more disease-resistant turf) and less-favorable growing conditions for the pathogen. Providing additional light and air movement, reducing traffic, and better water management will make fungicide applications more effective and hasten turf recovery.

**Lesson 6: Too many chemicals can cause as much damage as too many pests.**

During a bad summer, disease pressure may be so high fungicides do not provide needed control. This can lead to shotgun-like applications of everything in the storage building. When making multiple applications, great care must be taken to avoid unwanted interaction between products. Many top fungicides have growth-regulation activity. This does not mean they are bad. It does mean if multiple applications of different products with growth-regulation characteristics are made, there is a strong possibility excessive growth-regulation will occur. On healthy greens, this would cause little if any problem. However, on already-troubled greens, excessive growth regulation could easily slow recovery and even cause greater injury.

**Lesson 7: Air movement and light must be provided.**

I have long said the best fungicides on the market are Homelite, Stihl, and McCollough. Regardless of how well built a green may be, unless good growing conditions are provided, the putting surface will suffer during climatic extremes. Ever notice that when a club decides to rebuild a green or two, it picks the lousiest greens on the course to plow under? Invariably they spend a lot of money on drainage and root-zone mixture, but do nothing to correct other stresses that caused the old greens to fail. Good drainage and a permeable root zone do nothing to provide light and air movement.

**Lesson 8: Lines of communication with course leaders must be established before problems occur.**

I have heard many superintendents say the best green chairman is one who leaves them alone. Such a management style might work well during an easy year, but in bad years lines of communication better already be open and functional. There was a lot of explaining going on this season as greens passed away. On some courses, the management team functioned well and golfers made aware problems were unavoidable. At others the superintendents' explanations were viewed as excuses and the problems seen as failures.

**Lesson 9: Greens nurseries are not luxury items.**

I doubt anyone underestimates

the value of a source of good sod after last summer. It is next to impossible to find sod that is maintained at green height, and more difficult to find sod that perfectly matches your greens. Every course should have a minimum of 5,000 square feet maintained on a daily basis and more if the greens have a history of failure.

**Lesson 10: Tenure in the superintendent's position is a tremendous advantage.**

There is a trend in the superintendent's profession to change positions every few years (either voluntarily or by necessity). There also seems to be a trend toward younger superintendents.

It seems once superintendents hit their late 30s they start looking at a change of professions. While there are probably benefits to frequent changeover, they are outweighed by the lack of detailed knowledge about a piece of property one only gains through experience.

**Lesson 11: Superintendents cannot afford to get too far from the greens.**

Today's superintendents have many responsibilities, all of which place additional demands on their time. Many of these duties cause the superintendent to spend less time on the course. Superintendents are more dependent on their

staff than ever before to notice problems early. But as limited as the superintendent's tenure may be, that of assistant superintendents is even less.

Administrative duties must not further limit a superintendent's time on the course. Most office work can be accomplished by a full- or part-time secretary. Thus, a good secretary may be the best investment a course makes.

In spite of the progress we have made, we still have no control over Nature. There will be times turf suffers in spite of the best of programs. It is important not to lose confidence in sound programs or yourself because of a tough year.



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CIRCLE #138/GCSAA BOOTH #1242



## Obituaries

### VELVET BENTGRASS DEVELOPER MANNY FRANCIS DIES

MARSHFIELD, Mass. — Manual L. "Manny" Francis, 91, a longtime superintendent who developed Vesper velvet bentgrass and with his son, Manuel N. Francis Sr., built Green Harbor Golf Course here, died in October.

Mr. Francis, who came to America in 1919 at the age of 16, spent most of his life as a golf course superintendent. But his first work in the industry was working for a Mamaroneck, N.Y., developer who was hiring workers to build a series of courses for Donald Ross.

Mr. Francis turned his talents with plants, irrigation and heavy equipment into a foreman's job. When the Great Depression dried up construction, he turned to greenkeeping, moving with wife Shirley to South Portland (Maine) Municipal Golf Course. In 1948 he moved to Vesper Golf Club in Tyngsborough. It was there that he cultivated Vesper velvet bentgrass.

Velvet bentgrass is now on courses from Maine to Mexico and is being improved by Seed Research of Oregon.

Mr. Francis' son, Manny Sr., owns and operates Green Harbor Golf Course.

### USGA'S AL RADKO

Alexander M. "Al" Radko, former national director of the U.S. Golf Association (USGA) Green Section, has died.

Mr. Radko, who died Oct. 31, was a Green Section agronomist from 1947 to 1974 when he was named national director. He retired in 1982.

He was recipient of the 1983 USGA Green Section Award for distinguished service to golf through his work with turfgrass. He edited the *Green Section Record* for five years and was a primary editor of the USGA book "Turf Management for Golf Courses" by Dr. James Beard.

His family requested that memorial donations be made to the USGA Foundation in support of its Junior Golf Program. They can be sent to the USGA Foundation, P.O. Box 708, Far Hills, N.J. 07931.

### NJGCSA'S PAUL BOIZELLE

Paul Boizelle, 72, a former president of the New Jersey Turfgrass Association and Golf Course Superintendents Association of New Jersey, died Nov. 1.

A director of the Golf Course Superintendents Association of America in the early 1980s, Mr. Boizelle had been a superintendent at Fiddler's Elbow Country Club in Far Hills, N.J., and Onwentsia Club in Lake Forest, Ill., from which he retired several years ago.

He is survived by his wife, Jeanne, of Lake Bluff, Ill.

## Virginia GCSA honors Beljan

George Beljan received a Lifetime Achievement Award from the West Virginia Golf Course

Superintendents Association during the group's annual conference held recently at the Lakeview Resort & Conference Center in Morgantown, W. Va. Beljan, 71, of Buckhannon (W. Va.)

Country Club, spent many years working as a superintendent in

Pennsylvania before moving to West Virginia 27 years ago. His daughter, Jan, an architect with

Tom Fazio Golf Course Designers, was a conference speaker and was present when her father received the award.

Harry Merritt, longtime superintendent at Riviera Country Club, also received a Lifetime Achievement Award but was



George Beljan

## Chester Valley wins Best Maintained

Continued from page 36

was walloped by three feet of snow, putting the project on hold.

TV — what the layman sees — is important to Putt also has a few ideas for tournament time. "I think the only thing we'll do differently is more aesthetic striping," he explained. "This gets away from agronomics but the coverage on me. I also think we can do a little more with

the green banks. I look forward to doing the tournament again this year. I feel lucky to have the chance. There's a lot of pride that goes along with that. Like any business, superintendent's work is very goal-oriented. Every day we're trying to cut a certain amount of grass and make it look and play the best it can."

Especially when the next high school reunion rolls around.

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Gary Dempsey, Golf Course Superintendent  
New South Wales Golf Club  
Sydney, Australia



Jim Ferrin, CGCS  
Granite Bay Golf Club  
Granite Bay, California



# CAROLINAS ELECT DAVID DOWNING, OTHERS AS OFFICERS & DIRECTORS

The 960-member Carolinas Golf Course Superintendents Association has elected a new slate of officers and directors. They are, from left, top row: David S. Downing III, Wild Wing Plantation, Myrtle Beach, S.C., Dennis L. Bowsher of Spring Valley Country Club, Columbia, S.C., Robert O. Farren of Pinehurst Country Club in Southern Pines, N.C., past president, Rex H. Floyd of Wilson (N.C.) Country Club, Randall A. Long of Thornblade Country Club, Greenville, S.C., George B. Thompson of The CC of North Carolina, Pinehurst, N.C. Bottom row: Mickey McCord of Carolina Trace CC, Sanford, N.C., Joel A. Ratcliff of Sedgfield CC, Greensboro, N.C., Secretary John K. Williams of Keith Hills CC, Buies Creek, N.C., Vice President S. Charles Green of Florence (S.C.) CC, President Donald C. Garrett Jr. of Dataw Island Club, Dataw, S.C., and Treasurer John F. Davis of Secession Golf Club, Beaufort, S.C. Not pictured was David L. Pulley of Pine Valley CC, Wilmington, N.C.



# Southeast

## CONNER GIVEN PEN AWARD

Craig Conner, assistant superintendent at Summit Chase Country Club, has been awarded the coveted Green Golden Pen Award at the Georgia Golf Course Superintendents Association (GGCSA) Annual Meeting. Conner won for his article entitled "Carrying on a Tradition," published in the magazine's July/August 1995 issue. The article was later seen in GCSAA's Golf Course Management.

Runners-up included an article by Joe Peters of Turfmark/Laser Turf, "Laser Leveling... What Is It?" and an article by Dave Cousart, GCS of UGA Golf Course, "Wetting Agents Help Re-establish Greens."

# Mountains

## CACTUS & PINE UPS DUES

The board of directors of the Cactus & Pine Golf Course Superintendents Association has voted to raise the dues for Class A, B and C membership \$10 to \$85.

The board reminded members that, according to the bylaws, any members whose dues remain unpaid after 90 days of the first day of the fiscal year shall be dropped from the membership roll.

# North Central

## KIENERT LEADS WISCONSIN

Mark A. Kienert of Bull's Eye Country Club in Wisconsin Rapids has been elected president, leading a new slate of officers for the 250-member Wisconsin Golf Course Superintendents Association.

Joining Kienert are Vice President Scott H. Schaller of South Hills Golf and Country Club in Fond du Lac, Treasurer Kristopher J. Pinkerton of Oshkosh Country Club and Secretary David A. Brandenburg of Camelot Country Club in Lomira.

Newly elected directors are Andrew Kronwall of Lake Geneva Country Club, Charles Shaw of Nagawaukee Golf Course in Pewaukee and Gary Tanko of Sentryworld in Stevens Point. Continuing their terms as directors are David E. Smith of Abbey Springs Golf Club in Fontana and Past President Mike Semler of Bishops Bay Country Club in Middleton.

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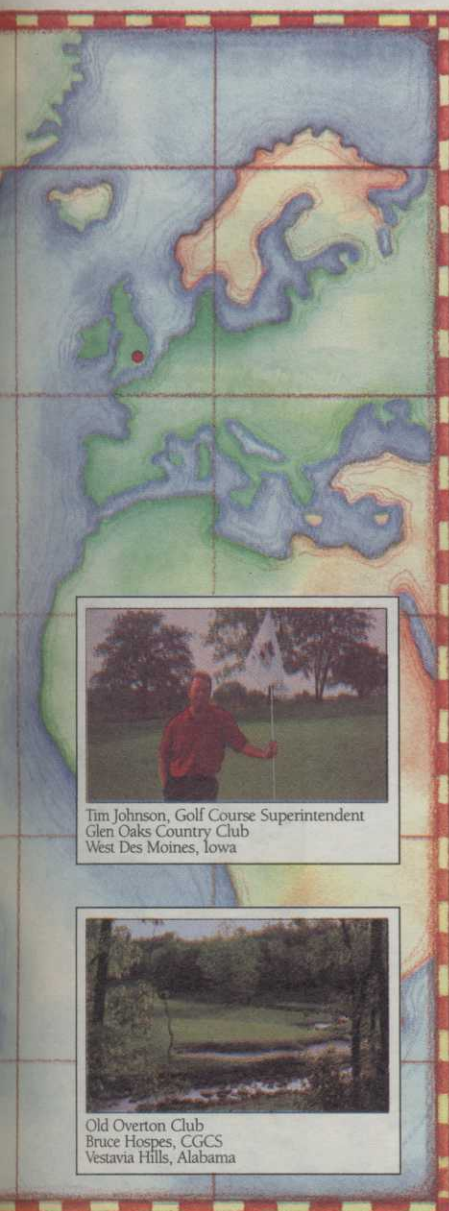
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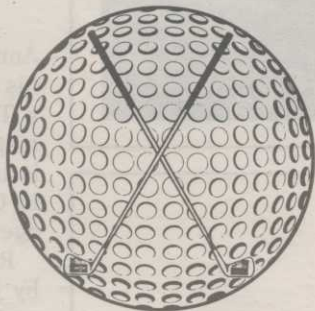


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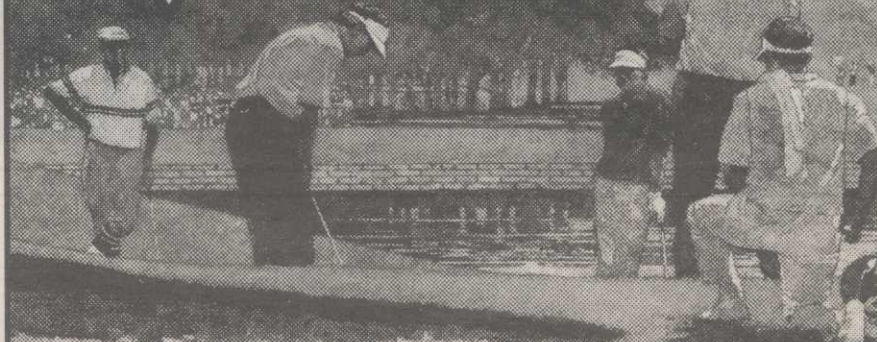
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## BRIEFS



## BAIRD HIRES DESIGNER

BRENTWOOD, Tenn. — Gary Roger Baird Design International, Ltd. has hired Todd Eckenrode as a design associate. Eckenrode's responsibilities include primarily domestic design assignments, as well as production of the visual and artistic presentations for the Baird organization's overseas clients in Asia. He has a bachelor of arts degree in law and society from the University of California Santa Barbara, and a bachelor of science degree in landscape architecture from Cal Poly San Luis Obispo, Calif.

## REYNOLDS, FAZIO TEAM UP

GREENSBORO, Ga. — Tom Fazio will design the third golf course at Reynolds Plantation, according to an announcement by Reynolds Plantation President William Peacher. The yet-unnamed third course will join the original Plantation Course, designed by Bob Cupp in conjunction with touring professionals Fuzzy Zoeller and Hubert Green, and Great Waters, designed by Jack Nicklaus. Construction of the Fazio design is expected to begin in February and be ready for play in 1997.

## JMP APPOINTS RAMSEY

SARATOGA, Calif. — J. Michael Poellot Golf Design Group (JMP) has appointed Kevin Ramsey senior designer. With the firm for seven years, Ramsey has been involved in a number of projects throughout Asia and the United States. He will focus on developing projects through North and Latin America.

## ULI APPOINTS VON HAGGE

SPRING, Texas — Golf course architect Robert von Hagge has been appointed to the Recreation Development Council for the Urban Land Institute.



Robert von Hagge

The council is a non-profit group that acts as a clearinghouse in establishing and measuring quality in amenity developments. It also deals with related issues concerning the environment, marketing, forecasting trends and funding in order to help developers.

## QUARRY OWNERS SET NEW SIGHTS

SAN ANTONIO, Texas — Jay Eddy, Jack Parker and Bill Ellis, the principals of the successful Quarry Golf Club here, plan to develop a new golf course project called Courage Creek. They have retained course architect Keith Foster of St. Louis and Scottsdale, Ariz., who designed The Quarry.

GOLF COURSE NEWS

## Course pipeline hot into future

By MARK LESLIE

YARMOUTH, Maine — The pipeline of new golf courses does not show any signs of drying up, according to the vast majority of golf course architects and builders responding to a Golf Course News survey.

Answering the questionnaire, 74 percent of the respondents said there is no indication of the reservoir going dry. Fourteen percent felt the number of new courses being built would begin to slow. Twelve percent felt the backlog is indeed diminishing.

More than 350 courses have opened

in the United States each year since 1991, and the number topped 400 in 1995. Another 743 are under construction, according to National Golf Foundation statistics.

Asked about the financial marketplace, 62 percent responded that clients are finding it easier to secure financing for golf projects, while 27 percent said financing is not easier to get. The remaining 11 percent felt the situation has not changed.

"I converse with many of our members on a fairly regular basis, and most

Continued on page 72



Tim Cate's debut design — Panther's Run, the newest golf course addition to Ocean Ridge Plantation in Sunset Beach, N.C. — has opened for play. See story, page 72.

## Survey reveals costs of course construction

By MARK LESLIE

CHAPEL HILL, N.C. — A nationwide survey spelling out ranges of costs for specific elements of golf course construction will be released Feb. 8 by the Golf Course Builders Association of America (GCBA).

"This is a vehicle to help the first-time developer to estimate what his project will cost," said Bill Kubly, chairman of the GCBA committee that oversaw the survey and resulting 12-page document that will be made available to potential developers. "It's been a need in the industry, and is a plus for the developers more than builders."

"One of the problems is that people get the opinion of what a golf course costs. If you tell a developer it's somewhere between \$3 million and \$5 million, invariably \$3 million ends up in the budget," said W. Tom Sasser, president of Paragon Golf Construction, Inc. in North Palm Beach, Fla., a member of the survey committee. "The purpose of the survey was to allow a prospect to try to understand the variables that affect this process."

Continued on page 70

## Illumined alum takes golf to Mississippi State

By MARK LESLIE

STARKVILLE, Miss. — With University Club golf courses taking shape at the University of South Carolina and Louisiana State University, a favorite son of another Southeastern Conference school will not be outdone.

Former Mississippi State University (MSU) football lineman and 1987 political science graduate Carl Middleton has broken ground on Dogwood Golf Club

and Residential Community on property two miles from campus.

Middleton, 31, who owns Dogwood Development Co. with partner Michael Moseby and subsidiary Middleton Golf Course Construction, expects the 18-hole golf course to be the cornerstone of the 614-acre development.



Carl Middleton

"It is part of ensuring the property values," he said. "We're shooting for one of the top golf courses in the state."

"The character of the course is very different. There are 202 acres where it is links-style. Condos will be built around five of those holes. In the hillside, where the estate lots and

Continued on page 71

## Q&amp;A NWH at home in Pacific, eye stateside projects

When golf course architects Robin Nelson and Rodney Wright of Honolulu needed a designer to establish an office in Singapore, they chose a young man who had five years of experience under his belt as senior designer for the Montreal-based Graham Cooke & Associates, Neil Haworth. Haworth performed so well they named him partner in February 1994. A 1986 graduate of the University of Guelph, Canada, majoring in landscape architecture, the 33-year-old Haworth has been the firm's project architect for such projects as Kuala Lumpur Golf and Country Club, The Tiara Melaka G&CC in Malaysia and Hwasing Golf Club in Shenzhen, China. We caught up with him for this interview at his Singapore office.

**Golf Course News:** Do you notice golf growth in Asia-Pacific increasing, decreasing or staying steady, and where is the most activity?

Neil Haworth: Growth in the region is steady. Every year there seems to be a "boom" economy in a certain country. In 1990 it was Thailand. In 1991 it was Malaysia; 1992 Indonesia; 1993 China; and in 1994 The Philippines, where we signed up several jobs. In the years after, a steady growth typically follows.

**GCN:** Opening new territories, like China, to golf must be exciting.

**NH:** Opening territories is definitely exciting and challeng-

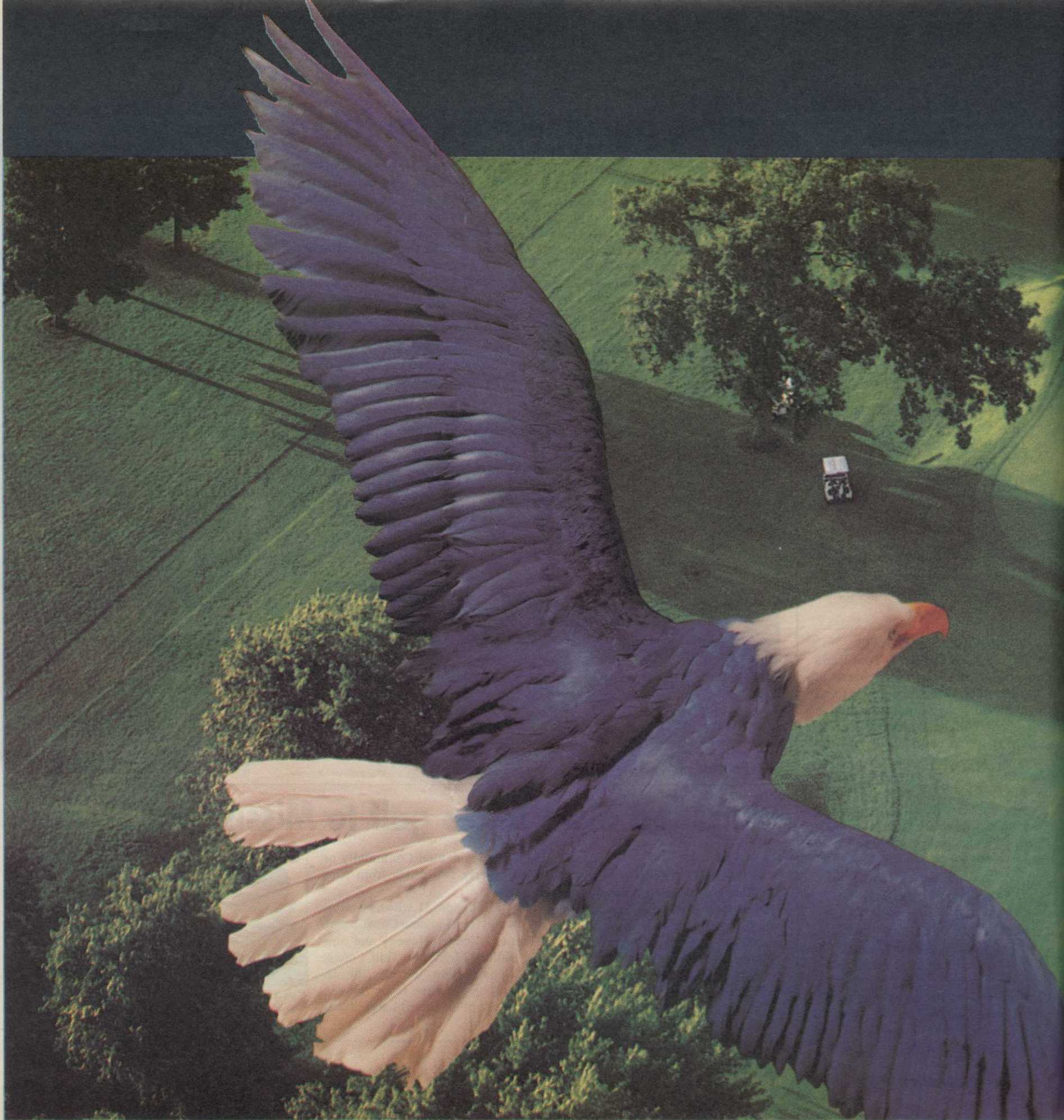


NWH principals (from left) Robin Nelson, Rodney Wright and Neil Haworth.

ing. It is extremely interesting to get to know and work with people of different cultures. The fact that golf is new in these countries is the challenging part since none of the people have seen a golf course before, let alone built one.

Continued on page 69





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On site during construction at Cooks Creek Golf Course in Ashville, Ohio, Mike Hurdzan (far right) speaks with (from left) superintendent Galen Scharenberg and part-owners Jim and John Cook.



## Hurdzan tells all in exhaustive book on course construction

By MARK LESLIE

It's no thriller, no can't-put-it-down spell-binder. No heroes storm to the rescue, no great feats save the planet. But if your interest is in golf, you'll get a full plate — and need not return for seconds — from *Golf Course Architecture: Design, Construction and Restoration* by Dr. Michael Hurdzan.

Released on Jan. 29, this 391-

page epistle is packed with useful stuff — fodder of all sorts.

Since all golfers are amateur architects, Hurdzan, an acclaimed golf course architect with an extensive turfgrass background, focused on educating them about the "how-to's" of the trade — a goal he accomplished both fundamentally and extraordinarily. Tom Doak succeeded in telling us "why" with his

## BOOK REVIEWS

*Anatomy of a Golf Course*. Ron Whitten and Geoffrey Cornish have told us "who, what and where" in their *The Architects of Golf*. Hurdzan boldly tells us "how" in *Golf Course Architecture*.

While such treatises as George Thomas' *Course Architecture in America* (1927) and Dr. Alister Mackenzie's *Golf Architecture* (1920) illustrate the principles of sound golf course design, they were written 70 years ago before the age of environmental restrictions and regulations; before the age where conditioning was so precise and so close to perfection; before the age where greens and tee construction and irrigation systems approached art forms.

Hurdzan conquers these areas in-depth.

As he says in the introduction, "The only thing that these playfields all share is the hole 4-1/4 inches in diameter. Everything else is up for grabs: appearance, length, width, elevation, and severity of slope."

His book is educational as well as picturesque; textbook as well as colorbook; detailed rather than broad-stroked; and illustrates how to transform two-dimensional plans on paper to three-dimensional land forms.

Yes, Hurdzan meanders through the topics of The Evolution of the Golf Course, Evolution of Design, Evolution of the Golf Course Architect, Evolution of Design Philosophy, etc. But the substance of this book is its insights into actually "doing it."

Here you read about turfgrass establishment and maturation; site feasibility studies; seedbed preparation and planting; the economics of course construction; plans, specifications and bidding; construction sequence; tee, green and bunker construction. Where else will you read about irrigation installation and the amount of water an 18-hole golf course in the Midwest uses each day? The balance sheet for an executive course, from the initial cost to the yearly operation and income?

From the degree of slope for sideslopes and depressions to the height of a mound to permit easy maintenance but difficult shot-making, to the best construction of greens to prevent water accumulation, to the spacing of sprinkler heads, Hurdzan covers all the bases. As he says, "Understanding the complexities of even a seemingly simple golf course can increase your pleasure of it, and foster that love affair that develops between the golfer and his or her course."

Hurdzan is a former president of the American Society of Golf Course Architects who holds bachelor's, master's and doctoral degrees in turfgrass management.

Continued on next page

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# Bobby Jones, player-designer unveiled in biography

By MARK LESLIE

The first time Bobby Jones walked onto the property that would become Augusta National Golf Course, he was astonished. "It even looked as though it were already a golf course," he remarked.

Thus began Jones' brief — but distinctive — input consulting in golf course designs. Just as Jones profoundly influenced golf as a player until his death in 1971, Augusta National and Peachtree (in his hometown Atlanta, Ga.) on which he also consulted, deeply affect course design to this day.

Sportsmanship, talent — class. Bobby Jones had them all — and more. And his kaleidoscopic life is brought to life colorfully, expertly and interestingly by Sid Matthew in the coffee-table biography, *The Life & Times of Bobby Jones*. Bobby Jones IV has called this Sleeping Bear Press publication "the greatest book ever on my grandfather."

For Matthew, collecting its essentials and writing it was a 20-year labor of love.

"Bobby Jones was one of very few people whose lives actually transcend the legend that grows up around them," Matthew said from his law office. "His legacy was the balance in his life. Not only was he a genius as a golfer but as a writer, golf course architect, actor, in his relationships and being an ambassador for golf. His family came first, his law practice second, and golf last, but never a life unto itself. He could have parlayed his fame into fortune. He did not."

Interesting to readers in the golf industry is a chapter devoted to the construction of Augusta National, Jones' "dream course." Matthew shares insights into the feel, qualities, strategies, instincts and philosophies of golf course architecture important to the man who won 15 major titles while competing as an amateur.

To Bobby Jones, golf was not a career; it was a way of life. And, therefore, to him, course design was not of fleeting impact; it was something of consequence.

Listen to his statement on the penal/reward concept of widening the gap between a good tee shot and a bad one. There are two ways, he said: "One is to inflict a severe and immediate punishment on a bad shot, to place its perpetrator in a bunker or in some other trouble which will demand the sacrifice of a stroke in recovering. The other is to reward the good shot by making the second shot simpler in proportion to the excellence of the first."

"The reward may be of any nature, but it is more commonly one of four — a



With Alister Mackenzie (second from left) and others looking on, Bobby Jones tees off from a potential tee box during construction of Augusta National.

better view of the green, an easier angle from which to attack a slope, an open approach past guarding hazards, or even a better run to the tee shot itself. The elimination of purely punitive hazards provides an opportunity for the player to retrieve his situation by an exceptional second shot."

At Augusta National, Jones was given the opportunity to consult acclaimed course designer Alister Mackenzie and put his design philosophy to the test of reality.

"Perfect!" he exclaimed the moment he first saw the property. "And to think this ground has been lying here all these years waiting for someone to come along and lay a golf course upon it."

Since Augusta National opened in 1932, golfers from around the world have felt those same stirrings. And while Bobby Jones' extraordinary play is a mere memory, the course he helped design lives on through the ages, reflecting his ideals.

Jones and Mackenzie, Matthew said, "married the best of the penal and strategic schools of design, together with the notion that a golf course should provide enjoyment to the greatest number of golfers."

Citing Mackenzie's thankfulness for

Jones' collaboration on Augusta National, Matthew added: "You do not discuss any subject of architecture with anyone knowledgeable, without coming back to Augusta National as one of the foundational cornerstones in the discussion. The standard is always Augusta. That is what genius Jones brought to the subject of design..."

"Many golf courses are trendy and must be redesigned. Augusta was done in such a monumental style that it will never be redesigned."

Everyone who knew him has a personal Bobby Jones story, and Matthew has taken care in this book and in an Academy Award-nominated video to capture those memories. Among them is his response when a group of Augusta National members approached him with the proposal that a bronze statue of Jones be made for the facility.

Jones' response: "No. This course is memorial enough."

Sid Matthew would like to believe he has put together a book Bobby Jones would have liked. You have to agree.

Sleeping Bear Press can be reached at P.O. Box 20, Chelsea, Mich. 48118.

## Midwest developers keep Lohmann busy

MARENGO, Ill. — Lohmann Golf Designs Inc. continues to make its mark in the Midwest with several projects in Illinois, Iowa and Wisconsin.

Nine of the planned 27 holes are open at The Broken Arrow Golf Club in Lockport, Ill. The second nine has completed the grow-in stage and the third nine — featuring double greens on all holes — is grassed and scheduled to open this summer.

Working as a design/build team, Lohmann and Midwest Golf Development are continuing work on Whispering Springs Golf Club in Font du Lac, Wis., where weathered ledge rock that was mined from the site will be used on lake and creek banks and near tees and cart paths.

Hunters Ridge Golf Club in Marion, Iowa, an 18-hole championship-length daily-fee course with an extensive practice and chipping area, and The Meadows Golf Club in Dubuque, Iowa, an 18-hole daily-fee course are expected to open in the fall.

And construction is underway at Twin Bridges Golf Club in Danville, Ind., an 18-hole daily-fee Lohmann design with a practice area scheduled to open in the summer of 1997. Twin Bridges is being constructed and managed by Heritage Golf Management of Indianapolis.

### GEORGE AT WORK IN VIRGINIA

RICHMOND, Va. — Meadowbrook Country Club has retained golf course architect Lester George and his Colonial Golf Design, Inc. to develop a master plan for renovations for its golf course. Meadowbrook was originally designed by Fred Findlay and opened in 1959. George is also working on renovations at Boonsboro Country Club in Lynchburg, Va., another Findlay design. Meadowbrook Green Chairman Larry Marshall said the renovations will involve "modernizing" the tees and greens.

INSIDE INFO

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## Hurdzan

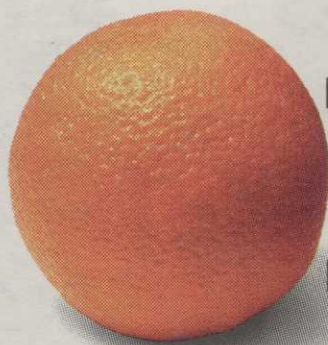
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turf studies and environmental turfgrass physiology, respectively. He is a former golf course superintendent, and last year was presented the Distinguished Service Award from the Golf Course Superintendents Association of America (GCSAA).

GCSAA, in fact, supported Sleeping Bear Press in publication of *Golf Course Architecture*. Some 70 percent of any profits generated by copies of this \$75 book sold by GCSAA will go back to the organization for a scholarship fund and to assist in getting other golf-industry texts published. GCSAA is headquartered in Lawrence, Kan., and Sleeping Bear Press in Chelsea, Mich.



## Bobby Jones, player-designer unveiled in biography



# OTHER

## PREEMERGENCE TURF HERBICIDES

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

THE first time Bobby Jones was introduced to the property was when he became Augusta National Golf Club's first professional caddy. "I even looked at the property as though it were a golf course," he said.

Course, he was not alone. "I even looked at the property as though it were a golf course," he said. "I even looked at the property as though it were a golf course," he said.

Spontaneous talent — Bobby Jones had them all — and more. And the talent that grew up around him was the talent that grew up around him.

People whose lives were devoted to the construction of Augusta National, Jones' "dream" course, Matthew Jones' insights into the last qualities of the architect and the last qualities of the architect.

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Continued from previous page  
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NGCSA is the national association of golf course superintendents. It is the national association of golf course superintendents. It is the national association of golf course superintendents.

NGCSA is headquartered in Lawrence, Kan., and Sleeping Bear Press is in Chelsea, Mich.

Jones' collaboration on Augusta National. Matthew Jones' insights into the last qualities of the architect and the last qualities of the architect.

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## Midwest developers keep Lohmann busy

MARION, Ill. — Lohmann Golf has continued to make a mark in the Midwest with several projects in Illinois, Iowa and Wisconsin. One of the projects is the planned 27-hole Lohmann Golf Club in Marion, Ill. The second phase of the project is the 18-hole Lohmann Golf Club in Marion, Ill. The second phase of the project is the 18-hole Lohmann Golf Club in Marion, Ill.

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By FRANK POLLARD

**P**GA Tour star Fred Couples and golf course architect Gene Bates have designed the 18-hole San Juan Oaks public golf course scheduled to open in early summer, tucked into a lush rural valley surrounded by the rolling foothills of California's Central Coast. Sitting on a 2,000-acre property between San Juan Bautista and Hollister, the \$16 million project is a collaborative effort of the Lee Brandenburg Group of San Jose and the Nikko Group of Newport Beach.

Built by Paul Clute & Associates, San Juan Oaks is a "hills and valley" style layout. The front nine covers a relatively flat piece of land surrounded by rolling foothills, while the back nine meanders through scenic hills with stands of live oaks framing the holes and providing dramatic views of the valley. The par 72 track will feature five sets of tees, playing from more than 7,000 to 5,300 yards. Golfers will be treated to large 7,000- to 8,000-square-foot greens, small waterfalls or weirs along the streams and stone bridge crossings. Five lakes — interconnected by rock creeks and streams that will provide recirculated irrigation water — will provide a challenge.

Perennial ryegrass is planned for tees and fairways with bentgrass on greens. Huge steep bunkers in the Alister Mackenzie style of those at Cypress Point Club and Pasatiempo Golf Club are sand-flashed using "Stabilizer" to not only keep the sand on the bunker faces but keep balls from plugging and allowing them to roll back into the bunkers. A combination of Oly 1 and Pebble Beach white sand will be used.

Twenty acres of natural non-irrigated areas within and adjacent to the tees, fairways and greens have been incorporated into the design both as for water management and aesthetics. This blend of native drought-resistant grasses will also be used on the outer roughs, providing a vivid contrast of colors. More than 110 live oaks are being transplanted on the front nine to give a decades-old look to the land.

Couples is excited about course design and, although he isn't involved in routing, he is deeply involved in hole layout and playability and brings 15 years PGA Tour and international competition.

"The idea is to build a course that's challenging, yet not the penal or target-type venue," Couples said. "We want a playable course for the everyday golfer, have them love playing it — and have a lot of fun doing it. I'll be aiding in making every hole different with regard to both aesthetics and playability... You don't want players leaving and saying it's the hardest course they've ever played. I'm a traditionalist and like the old-style courses that, like this, were designed and constructed using the

## Couples-Bates track opens to the public

natural beauty of the terrain as it was without moving tons of dirt and reshaping the land to accommodate peripheral real-estate developments. This is a beautiful piece of property we are working with and I love its quiet rural atmosphere."

Environmental measures taken in project include integrated pest management to reduce the use of pesticides and fertilizers, water enhancement and conservation, and wildlife cover and food.

To manage and conserve wa-

ter, a computer-operated weather station will be used. It will designate, on a daily basis, specific areas needing irrigation and the specific amounts for each area so that no over-watering occurs. To also conserve water, the 9,000-square-foot maintenance facility will employ a closed system to continually recycle and clean equipment wash water with solid wastes from recycling used on-course.

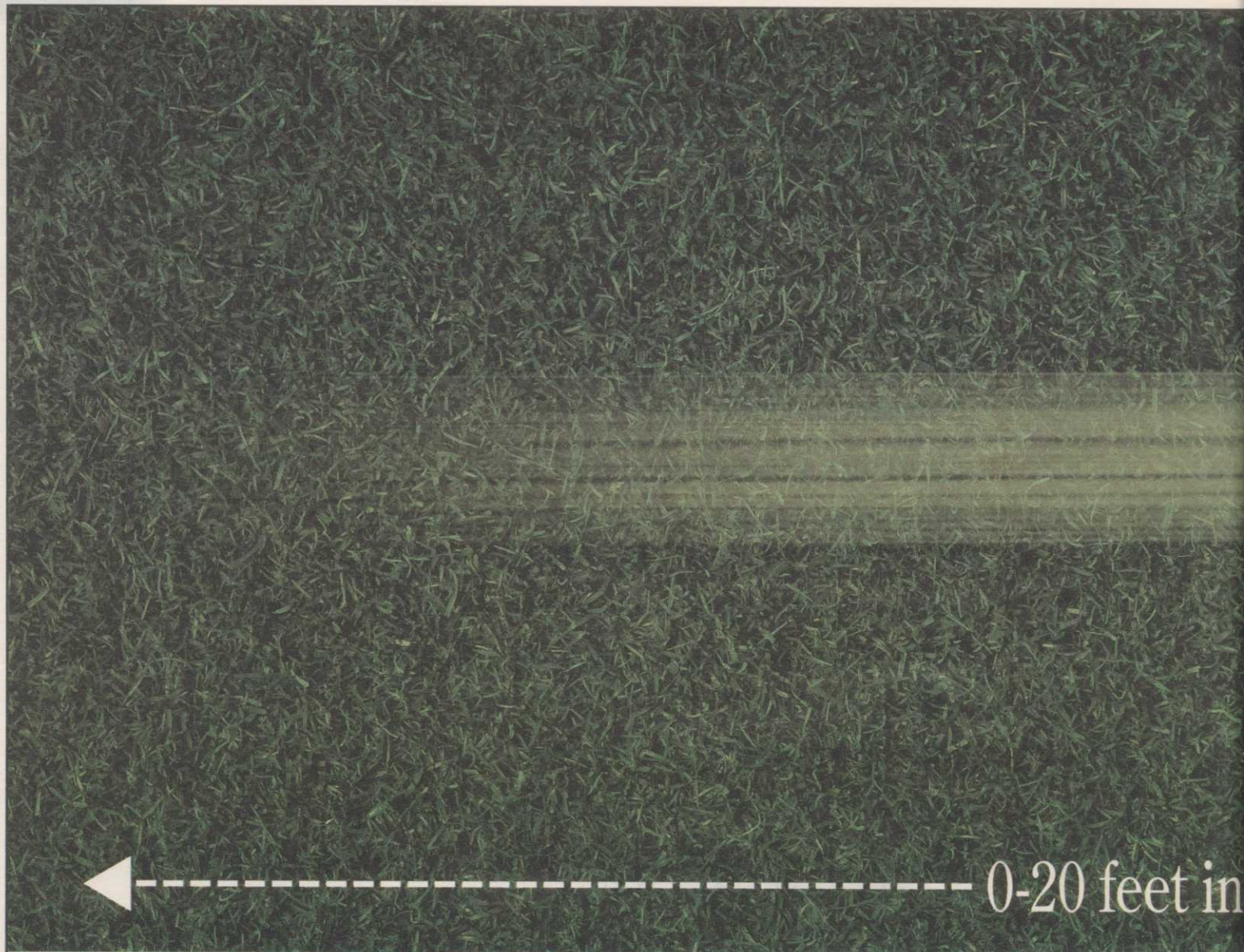
The irrigation system, the Rainbird Maxi 5, features hand-

held remote controls to activate various satellites throughout the course. Although there is currently more than enough water available on site for course operations, the entire system has been designed and being installed to meet possible future use of reclaimed water.

Scott Fuller, vice president and project manager, said he expects to open for play to open in June or July. Couples will make a number of working visits prior to and including the grand opening. He

will also host and play in the Fred Couples Invitational Charity Golf Tournament to be scheduled soon after the course opens.

Although it's a public venue, it has a private club feel when you drive up to the plaza adjacent to the clubhouse. The clubhouse will feature a dining/banquet room with a capacity of 300 people, a pro shop, locker rooms, lounge and a Fred Couples memorabilia room which will also serve as a conference center. A practice facility will offer a 350-yard driving range with 50 stalls as well as a large chipping and short game practice area.



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# Raymond Floyd, Bobby Weed partners in 'full-service' design firm

By MARK LESLIE

PONTE VEDRA BEACH, Fla. — Robert C. Weed Jr., who last year left PGA Tour after 11 years as its course architect, has joined forces with PGA Hall of Fame golfer Raymond Floyd to create a full-service course design company.

Floyd/Weed Design has offices here and in Miami Beach.

"I've worked with a number of talented architects over the years and I believe that Bobby's unique combination of skills, creativity

and responsiveness to his clients and their goals put him at the top of the list of the new breed of golf course architects," Floyd said. "I have played in tournaments and have won on Bobby's courses, and, believe me, they are terrific."

Weed's designs include Tournament Players Clubs (TPCs) at Tampa Bay, River Highlands in Cromwell, Conn., Summerlin in



Raymond Floyd

Las Vegas and Mito Japan. Before joining the PGA he apprenticed for seven years with Pete Dye, assisting in the development of Long Cove Club on Hilton Head Island, S.C., Cypress Links in Jupiter, Landfall in

Wilmington, N.C., and the TPC at Sawgrass Stadium Course and Amelia Island Plantation in Florida.

Joining Floyd "could lead to

some high-profile projects and opportunities," said Weed, an associate member of the American Society of Golf Course Architects and former certified golf course superintendent. "Raymond's got a wealth of knowledge from playing the game for so many years on such a professional level, and he has a lot of insight to add to design from a playability standpoint."



Bobby Weed

"He's out there playing every week with amateurs, and he's played all the great courses of the world. He was involved in golf courses with his father from a maintenance and construction standpoint from an early age. Design is a natural fit for him."

Floyd, who has won 53 tournaments on the PGA Tour, has been involved in course design the last five years, working on 12 projects — most recently The Legacy in Springfield, Tenn. Among other Floyd co-designs are Arrowhead Golf and Country Club in Myrtle Beach, S.C., River Run in Charlotte, N.C., and the Captain's Club in Grand Blanc, Mich. He redesign of the Doral Golf Resort's Gold Course led to its renaming to the Raymond Floyd Gold Course, and he intends to begin work on Doral's famous Blue Monster course after this year's Doral-Ryder Open.

Floyd will play in only about 20 tournaments a year, Weed said.

"He doesn't want to be perceived as a dabbler [in design]. He fully wants to apply himself to it. We anticipate great things."

Weed said they will focus on work in the States. "I don't see any let-ups," he said. "We feel we're going to be busy the next two or three years with the projects we are involved in right now."

Floyd and Weed say their work has been influenced by the "naturalistic approach" to design made famous by such classical designers as Donald Ross, Alister Mackenzie and A.W. Tillinghast.

## With help, Houston restores Mem'l Park

HOUSTON — The grande dame of Houston golf courses, Memorial Park, has reopened after a \$5.7 million course renovation and clubhouse expansion.

The project involved nearly three years of planning and united the city's Parks and Recreation Department with the private, non-profit Houston Parks Board, Inc. for public-private funding and project management.

The city funded \$4.2 million in course reconstruction and drainage improvements, overseen by architects Finger Dye Spann. The Houston Parks Board raised \$1.5 million in private contributions to expand the clubhouse and establish an ongoing maintenance fund.

The course was transformed with 38,000 feet of drainage pipe, more than 1,100 new trees, 60 new bunkers, 8-foot-wide concrete cart paths, 15-foot-deep detention lakes, all-new tee markers and on-course restroom facilities.

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## COMMENTARY

# Turn obstacles to development into positives of challenging design

By JOHN F. HARBOTTLE

What must it have been like to design a golf course back in the days of Alister Mackenzie and George C. Thomas? To peruse a piece of land and visualize the layout of 18 holes of golf, your thoughts largely unfettered by environmental constraints that may have a significant impact on the

*John Harbottle lives in Tacoma, Wash., and is a member of The American Society of Golf Course Architects.*

finished product. We can only guess what it must have felt like to create golf masterpieces such as Cypress Point and The North Course at The Los Angeles Country Club, much less what these courses would look like if built today.

The early designers were not faced with a multitude of environmental regulations which pose challenges for contemporary de-



John Harbottle

signers. But to assume that these constraints only serve to restrict what designers can do today would lead to missed opportunities to create great courses on sites considered environmentally sensitive. Even in the face of daunting restraints, there are strategies for constructing challenging and enjoyable courses.

Building courses in the 1990s

requires careful consideration of wetlands, wildlife habitat, archaeological and water resources and endangered plant species. As the American Society of Golf Course Architects works in a cooperative effort with the Allied Associations of Golf and environmental groups to draft a set of environmental principles that will help promote golf course development, one fact is already evident: Golf is an environmentally responsible development alternative.

Environmentally friendly courses should have minimal, discernable impacts on the sensitive areas. In situations where impacts are necessary, mitigation plans are required.

Working with sensitive sites is not always easy, and restrictions may weigh heavily on a course's playability. Nonetheless, various strategies may be implemented to ensure that the quality of the course and playing experience are preserved without harming the environment.

It is never too early to start communicating with permitting agencies to understand their needs. Their help is necessary to formulate a design which will develop into a quality project. When sensitive elements are associated with a project, a team of consultants is needed to assess the various elements and determine what impact the course would have on those areas. A team of experts in biology, archaeology, geology and hydrology should conduct field reconnaissance and map the sensitive areas to use in planning the course layout.

Such a team was assembled for to plan The Golf Club at Genoa Lakes, a project on a sensitive site outside South Lake Tahoe, Nev. Situated near the Carson River, the site was a natural for early settlement, serving as the gateway to San Francisco for the old wagon train trail. The land on which the golf course was built is a mixture of high desert savannah, wetland and riparian woodland habitat.

Wetlands and wildlife habitat were significant. Meetings were held with such permitting agencies as the Army Corp of Engineers and state Department of Fish and Wildlife to verify the exact location of sensitive areas. The meetings helped to arrive at design solutions that would neither decrease the quality of the golf course nor harm sensitive areas.

Initially, course drainage was not allowed to flow directly into any wetland or wildlife habitat area. But we determined that drainage could pass through a small, natural grass buffer zone and then into the sensitive areas. The buffer zone filtered fertilizer and pesticides from runoff. This was of great benefit as the wetlands became natural hazards incorporated into the course design.

The buffer areas also helped preserve wildlife habitat, creating a fringe that developed refuge and food sources for birds and small animals. The dense vegetative edge also speeded play, since balls hit into the hazard were irretrievable. What was once a design obstacle enhanced the course's character, developing a mature look with the natural vegetation.

Of more than 200 acres allocated to the course, only 120 acres are irrigated and, of that, about

**Continued on next page**

GOLF COURSE NEWS

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## Harbottle comment

Continued from previous page

100 acres are maintained. All wetlands and wildlife habitat were preserved and integrated to create natural amenities and hazards for the course. To ensure that sensitive areas were linked to maintain circulation corridors for the wildlife, several new wetland and habitat areas were created... making aesthetic, natural hazards and creating diagonal carries from the tee. This brought the natural areas closer to the golfers, once again adding appreciably to the quality of the playing experience.

The Savannah Course at Stevinson Ranch Golf Club is another successful example of golf course construction within a sensitive site. About two hours southeast of San Francisco, this project is in the Audubon Signature Sanctuary Program. Again, the key was to preserve and design around the significant wetland and habitat areas. At Stevinson Ranch, the course actually wrapped around sensitive areas, creating a huge wildlife sanctuary. Golfers can bird watch many different species.

Although we did not physically impact any habitat while building the course, permitting the project was contingent on mitigation. In other words, in order to build the project, we had to agree to create roughly 100 acres of specific habitat, including wetland, riparian and savannah landscapes. Again, a team of experts was assembled to ensure the habitats were properly located and developed. Also, a critical concern was linkage, enabling the wildlife to migrate, nest and feed throughout the areas.

Golf course drainage was not allowed into sensitive areas. Buffer areas were developed to prevent any adverse impacts. Careful and thoughtful planning of the course around and within the sensitive areas protected the natural process and added to the character, as well playing characteristics of the course.

A good design process entails careful analysis of sensitive areas; developing a team of consultants to create solutions that preserve the environment and enhance the course; and working carefully with permitting agencies to keep everyone informed and understanding guidelines. It entails implementing strategies in a conscientious and conservative way and ensuring that neither the quality of golf nor the environment is diminished with the final product.

Using the proper strategies, sites that were once considered questionable or marginal can yield rewarding and challenging golf courses. There can be little doubt that a well-designed course, like no other playing field, offers everyone the opportunity to play a game in which nature is not a beautiful distraction, but also the ultimate challenge.

GOLF COURSE NEWS

### ROBBINS KOCH INKED

TAMPA, Fla. — Robbins Koch Golf Designs, Inc. has been selected to design a 27-hole championship golf course for the residential community known as Sweetwater in Johnston County, N.C., east of Raleigh. Robbins Koch also assisted the master planners in developing the final layout of the project. Rick Robbins is under contract by Sunstar Homes to design the course, which will be the showcase amenity in the 975-acre project.

## International Network of Golf honors Garl

HAINES CITY, Fla. — Ron Garl of Lakeland was awarded the International Network of Golf Industry Honors for Golf Course Designer of the Year at the 5th Annual ING Fall Conference at Grenelefe Golf and Tennis Resort.

The media-based International Network of Golf is formed to enhance and promote education and communication in golf. Its awards recognize individuals and organizations who have made outstanding contributions to the golf business. Ten thousand ballots were distributed throughout the industry.

Garl's creativity, environmental awareness, and talent for designing golf courses that are challenging and memorable for golfers of vary-

ing skills, is becoming his highly regarded trademark. His most recent project, the Tradition Club in Myrtle Beach S.C., opened Sept. 6, with five sets of tees designed and measured so that every golfer, regardless of handicap or gender, can play the same clubs on each hole.

"It is a great honor to be recognized by both the golf media and many of the leaders within the golf industry that represent the International Network of Golf," said Garl. "It is very rewarding to know that the voters believed in the same thing we have believed in throughout our 26-year existence... that the game should come first, and that the players are most important for the future growth of the game."



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# Casinos still driving golf

Continued from page 3

makes for such a good package," said Landmark's Brian Curley, whose firm has opened one Pete Dye design outside Las Vegas on the Paiute Reservation. Three more courses are planned for the site.

"The second course is under construction right now — about halfway done," he said. "All but two or three holes are shaped. That means about six holes are ready to plant. It should open late summer/early fall.

"I've been contacted on a couple other projects in Arizona where they have a casino already," said Curley. "We've talked with a bunch of different Indian groups. There's the Pima reservation. They'll do something with someone here pretty soon. There's another reservation, Fort McDowell, where the Indians are looking to develop."

Markets like Las Vegas have long lacked the golf holes to accommodate its vast tourist base. Here, Indian reservation lands have expedited long-needed efforts to diversify the city's attractions. ["The gambling aspect in Vegas is not the reason golf development is occurring there. It's purely a land issue," said Curley.]

Along the same lines, Prima Donna casinos have commissioned Tom Fazio to design 36 holes in State Line, Nev. There is no Native American business interest here, so the golf courses will be situated across the border in California.

"That's where the water is," Fazio explained. "We have 36 planned, 18 under construction and 75 percent of the earth is moved. We'll be into shaping, drainage, irrigation, greens construction through March, with grassing this summer. We should open this fall.

"I see [casino-based golf development] as no different from resort development. And golf courses are a natural for it, especially because hotel construction has fallen off for so long. If you look back to the mid-'80s, the resorts were the only new hotels being built. I look at these casino courses and it's really resort development. That's what it has replaced."

Because Nevada allows legalized gambling, the state will continue to be a gaming hotbed. And while riverboat gambling operations are mushrooming up and down the Mississippi, Indian-owned casinos represent the fastest-growing segment of the gaming market outside Nevada (see related story).

Despite their freedom from regulatory rigor, reservation golf courses are not free from the specter of politics, as intra-tribe disputes have on occasion proved no less sticky than local conservation commissions or state departments of natural re-

sources. One example is Foxwoods Casino in Ledyard, Conn., the largest casino in the country, whose plans for 36 holes — one 18 designed by Rees Jones, another by his father's firm — have been on hold for more than two years.

"We still have a design agreement, but we haven't moved forward with the construction phase," said Matt McDonald, vice president at Robert Trent Jones Sr. "There is a little internal politics going on, deciding

on which land will be made available to us.

"We've done some route planning but they're not ready to go forward. We're checking in periodically to see where they stand. But they're just not ready."

Further, because Indian reservations are federal trust land, no tribe can actually deliver a title; a fact that has spooked a number of banks. Basically, if a tribe backs out in the middle of a project, developers have no recourse via the U.S. court system. Developers do have the option of seeking an impairment of contract agreement which,

once signed by all parties, allows an investor recourse in tribal court. But that prospect has, up to now, provided little comfort.

As with any development, there are hurdles. But there's no doubt the peculiar alliance between golf, Indians and casinos will continue to bear fruit through the decade.

And there's more to recommend it: stability.

"I don't claim to know that much about the gaming business," said Fazio. "But you don't hear too often about casinos going under."

## TEXAS TOWN TARGETS TOURISTS

EULESS, Texas — This city is constructing a premiere golf course, the Texas Star, in an attempt to attract tourists nationwide. City officials have chosen Keith Foster Golf Course Design to design the 18-hole track. Stacked rock ponds, split fairways and cascading tees will span the 7,000-yard, par 71 course. Texas Star will have a conference center, providing meeting rooms and a dining facility. Landscapes Unlimited has started construction. Projected opening for Texas Star is mid-1997.

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## HOW'S THAT FOR APPLICATION GUIDELINES?





## Public Works Assn. honors Harborside

CHICAGO — Built on two landfills on Chicago's South Side, Harborside International Golf Center — and its consulting engineering firm, Kudrna & Associates — have been awarded an APWA Achievement Award by the Chicago City Branch of the American Public Works Association.

Designed by Dick Nugent, the first nine holes of Harborside International Golf Center's Starboard Course and

the first 15 holes of its Port Course are built on a sanitary waste landfill. The remaining three holes of the Port Course and the second nine holes of Starboard, along with a teaching facility and practice ranges, were built on a landfill of construction rubble. Earlier, Harborside and Kudrna were awarded a rare honorable mention citation by the Illinois Section of the American Society of Civil Engineers.

## NWH: Asia-Pacific presents special demands

Continued from page 57

Recently, on our project in Shanghai, I was told the earthworks contractor would be mobilizing the next day. The next day, 2,000 Chinese people arrived by boat to the site. No machines. Especially with the Chinese, you need to work closely with the locals. If we had rejected the idea of hand labor and insisted they use machines, the project would not have moved. Eventually, a combination of hand labor and bulldozers

proved the best solution.

**GCN:** How sophisticated is the development community in Asia-Pacific?

**NH:** It is definitely more sophisticated now than it was five years ago. This includes the selection of consultants, including golf course architects, and the choice of grasses. Two areas that I think still have a long way to go are understanding the "process," i.e. master-planning to market analysis to construction methods and turfgrass maintenance.

With the process, we are able to work closely with the client, which is one of the main reasons we have three directors in Singapore — Rodney Wright, Brett Mogg and myself.

The frustrating area is turfgrass maintenance, as our role typically is complete once the course opens. The owners need to be better educated as to what it takes to maintain a golf course. This is starting to happen, but in general has a long way to go.

**GCN:** What is the predominant turf on the courses? Is there a move in any certain direction?

**NH:** In Southeast Asia, we are using Bermudagrasses imported from either the United States or Australia. The climate of the southern countries is perfect for these grasses. As we move north, we are using zoysiagrass for the fairways and roughs and Bermudagrass on the greens.

We are hesitating to use a bentgrass on the greens in Northern China, Korea, etc., because of the lack of knowledge on how to maintain the grasses. The possibility to lose the bentgrass during the hot summer months is too great.

**GCN:** How aggressive are the environmental groups in Asia-Pacific?

**NH:** The environmental groups are becoming more vocal in Thailand with regard to the water supply and national parks; in Malaysia regarding the destruction of the rain forest and siltation of the rivers; but none in China yet. Typically, they are affecting the projects that should not go ahead anyway. But not the environmentally positive projects.

I think it is good for development, as long as the environmentalists are not radicals. Let's work together to improve the Asian landscape and quality of life.

**GCN:** In China, where individuals do not own the land, how is golf development getting accomplished?

**NH:** Typically, projects in China are joint ventures with the local Chinese governments, who supply the land on a long-term lease agreement — usually 50 or 70 years. The local governments are guaranteed a certain return on investment in exchange for the land. They also expect local people to be involved in some capacity, thereby supplying good pay and good titles to several key local people. This makes them look good to more regional governments, which is the way to work up the "government ladder."

**GCN:** Are you getting competition from European and Asian architects?

**NH:** Most of our competition in Southeast Asia is from American and Australian design firms. As India opens up, we expect to run into more British and European competition.



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## Building survey

Continued from page 57

The report divides the United States into four geographical zones. In each zone it states the minimum, median and maximum cost of 20 phases of construction — from layout and staking to erosion control, excavation, irrigation and drainage, shaping, cart paths and seeding. A narrative description accompanies each category.

A worksheet breaking down these costs is also provided for each region.

The diverse climatic zones of the country impact costs, GCBA Executive Director Phil Arnold points out in the document's foreword. "These conditions affect the length of the construction process, the grassing dates, and the complexity of certain elements such as irrigation and drainage," he said. "For instance, in areas of mild winters and well-drained soils, the construction schedule may be half of the time necessary for construction in sites with severe winters."

Beyond this, each site has its own characteristics affecting construction — from topography to vegetation, soils and governmental rules and regulations.

Whereas construction costs are site-specific, the GCBA document allows a developer "to look at the items and their description and apply the ranges [of cost] to the site," Sasser said. "Then they can come up with a rough estimate to start a financial analysis and decide whether the project makes sense. We also hope it helps architects for the same reason."

Generally, Zone 1 — roughly the Mid-Atlantic to the Northeast — is the most expensive region in which to build a golf course, while Zone 2, the South, is the least expensive. But the total construction cost is surprisingly close in all four zones. For instance, some items of construction may be lower in Zone 1 than Zone 3. While the minimum for erosion control is \$45,000 in Zone 1 compared to \$35,000 in Zone 3, irrigation in Zone 3 carries a minimum \$430,000 cost compared to Zone 1's \$370,000 minimum.

"You may find that you would use the high side of those ranges in the Northeast more than in the South," Sasser said. "In the Northeast, regulations are much more strict. In Birmingham, with all its rock, you would use high numbers for earthmoving. In Atlanta, which has very strict erosion-control laws, those figures would be high."

Kubly pointed out the figures do not include grow-in costs. They are generally higher in the North because of the region's shorter construction season, and the longer time cool-season grasses take to grow.

Arnold said he expected to release the construction document at the International Golf Course Conference and Show in Orlando, Feb. 8-11.

### SUNRIDGE CANYON OPENS

FOUNTAIN HILLS, Ariz. — SunRidge Canyon Golf Club has opened, already receiving recognition for its challenging design and breathtaking canyon setting. Tom Patrick, vice president of golf operations for Sun Cor Resort & Golf Management, said: "For every aspect, from course design to development and construction to golf operations, our goal was to have the best in the industry involved with the project. I believe we have achieved our goal."

## RTJII takes plunge into public golf ownership

EAGLE POINT, Ore. — Robert Trent Jones II (RTJII) has embarked upon its first solo venture into golf course ownership and operation, with the development of the Eagle Point Golf Club here.

Eagle Point is the first high-quality, championship golf facility to be completed in southern Oregon by RTJII. It is scheduled to open for public play this summer.

The course will be the centerpiece of a 350-acre golf and residential community master-planned by RTJII.

The golf course portion of the project features an 18-hole championship layout, state-of-the-art practice facility and 7,000-square-foot

clubhouse complete with pro shop and dining facilities. RTJII, which operates under the direction of President and Principal Designer Robert Trent Jones Jr., will operate and manage the golf facility.

Grassing has been completed, and the entire course reflects the RTJ2 design philosophy of providing the golfer with a challenging and playable golfing experience.

Various points on the course offers spectacular views of the Rogue Valley, Mount McLoughlin and the Table Rocks. Eagle Point can be played at 5,245 yards from the forward tees or stretched out to 6,970 yards from the championship markers.







Mark Brooks tees off at Walnut Creek

## Brooks-Baine complete first course design

MANSFIELD, Texas — Mark Brooks can celebrate twofold. In the wake of his design firm — Brooks-Baine Golf, Inc., completing its first project in November, he won the Bob Hope Classic in Palm Desert, Calif., on Jan. 21.

Brooks-Baine Golf had finished the 18-hole Oak Course here at Walnut Creek Country Club southeast of Fort Worth. The country club is owned and operated by Dallas-based Club Corp. of America

Burt Baine, headquartered in Fort Worth, redesigned an existing nine before designing and building a new nine to create a 6,751-yard, par-71 18-hole course. The renovation and new construction cost \$3 million.

The club now has two 18-hole tracks.

"Burt and I have created a course that is challenging, yet fair, and one that will remain interesting and fun to play," said Brooks, who christened the course in November.

"Our basic design philosophy on the Oak Course is strategic. And because golf is a game of angles, we have included a high degree of risk-reward in our design."

Established in 1992, Brooks-Baine Golf provides a complete range of services relating to the design and construction of golf facilities, including the development of renovation plans for existing courses and full design programs for new facilities.

### GREYROCK CHANGES NAME

ATLANTA, Ga. — Following a successful first year of operation, Greyrock Capital Group Inc. on Jan. 1 became NationsCredit Commercial Corp. In doing so, it joined forces with its established consumer side, NationsCredit, and changed the name of its holding company from Nations Financial to NationsCredit Corp. The alliance marks an opportunity for expanded growth, with combined assets totaling more than \$8 billion.

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## Mississippi State

Continued from page 57

garden homes will be built, it has a lot of elevation change."

Middleton's timetable calls for nine holes to open next September and nine in June 1997.

Dogwood could be a perfect teaching venue for MSU, which boasts golf course management and turfgrass programs. "A lot of the turfgrass students are working for me right now," he said.

Middleton has sold more than 70 house lots. "Four of my classmates have bought condos," he said, adding that MSU Bulldog Club members, other alumni and area residents are his clientele.

"We have alumni who come here 30 times a year and they're spending money on hotel rooms, restaurants, etc. If we can give them a secure, nice environment and a place to play golf and then go to their university games and other functions, it can be worth it to them financially," he said.

"We have a property management group that will rent that property out when they're not going to be here. Or, some may want to buy a condo for their child to live in while in school, write it off in taxes, then sell when they graduate."

The concept is similar to resort areas, but taking advantage of the university and its attractions as opposed to a resort's amenities.

Middleton is no stranger to golf. He worked for American Golf Corp. during construction of Old Waverly Golf Club in West Point, a Bob Cupp-Jerry Pate design many consider the best course in Mississippi. After serving as a construction foreman, he became assistant at Old Waverly under superintendent Bill Colloredo.

He left to organize Middleton Golf Course Construction and built River Birch Country Club in Amory, an 18-hole track that opened in 1994. Middleton designed that course with long-time shaper Fred Moore, who has worked extensively with Jack Nicklaus and Tom Fazio, among others.

"I learned a lot about course design from Bob Cupp," Middleton said.

Middleton hopes to develop similar projects in a couple other college towns. His sights, he said, are on Alabama.



## Panther's Run adds punch to Myrtle Beach

MYRTLE BEACH, S.C. — Panther's Run, the newest golf course addition to Ocean Ridge Plantation in Sunset Beach, N.C., opened Oct. 1. The 18-hole layout is designed in the traditional style using the natural terrain of the land.

In his first solo project, architect Tim Cate created wide, open fairways lined with grassy, depressed areas or water.

Spectacular views, especially from the tee boxes, make it a visual treat. Several of the holes are visually intimidating, but overall, the course is designed to test the golfer's skill

and not break his game.

Panther's Run features large, multiple-tee areas.

Wooded scenery is the backdrop for many of the holes. Cart paths run along the edge of a dense forest and water comes into play on most of the holes. Panther's Run measures from 7,089 to 5,023 yards.

The course joins Lion's Paw to complete the 36-hole layout at Ocean Ridge Plantation. Lion's Paw, designed by Willard Byrd, is an open, hilly course that treats golfers to views of a beautiful creek valley and its adjoining wetlands.

## No end in sight to pipeline

Continued from page 57

report being busy to very busy," said American Society of Golf Course Architects President Jeffrey Brauer of Golfscapes in Arlington, Texas.

Brauer added the caveat: "We have seen some resistance to financing of individual projects. Based on some previous failures, there is some concern about the quality of feasibility studies in golf."

Lorrie Viola, an architect based in Farmington Hills, Mich., said

she felt construction would be slowed by environmental issues and because the non-golfing public supports parks and open space instead of golf facilities.

Dr. Michael Hurdzan of Hurdzan Design Group in Columbus, Ohio, responded "absolutely no" to the question of the pipeline drying up and "absolutely yes" to financing being easier. He suggested developers lower costs by 1) reducing technology in green construction and irrigation; 2) using restricted or low-value land such as flood-plain, airport land, leased land, etc., and; 3) bringing an architect and/or contractor aboard as an equity partner for their fees.

Architects said they had seen several creative new ways of financing golf projects:

- "Our experience," said Brauer, "is a return to private all-cash financing, revenue bonds, or general obligation bonds issued by municipal entities. We have seen a decrease of golf course financing companies using secondary market issues."

- Gordon Lewis of Naples, Fla., Baxter Spann of Houston and Chester Prince of Prince Contracting Co., Inc. in Palmetto Fla., all said community development districts are being formed to develop golf projects.

- Spann also pointed to "trends toward pension funds and tax-free bonds for private development."

- Partnerships, or equity positions with designers, builders and operators to reduce costs for services were cited by Rick Robbins of Cary, N.C., Jerry Matthews of Lansing, Mich., and Hurdzan.

Not only does this cut up-front costs, Hurdzan said, "It also builds confidence in the lenders/investors."

- "The spinning off of land for golf to experienced golf developer/operators is facilitating more real estate-driven golf projects and making them more affordable," said Jim Applegate of Gary Player Design in Palm Beach Gardens, Fla. "The question is whether daily-fee golf is compatible with residential sales."

Brauer told of the creativity of one of his firm's municipal clients, the city of Plano, Texas. Plano officials arranged with three neighboring land owners to "throw all the land into the pot, whereupon we designed a golf course to maximize usage of the topography — both for the golf course and to enhance future surrounding development. In so doing, the city avoided a large amount of up-front land expense."

But, while bond issues, development districts and the like are opening doors around the country, course architect Desmond Muirhead of Newport Beach, Calif., had the simplest solution to financing. "The best way is if the owners have cash!" he said. "The banks are unbelievable."

GOLF COURSE NEWS

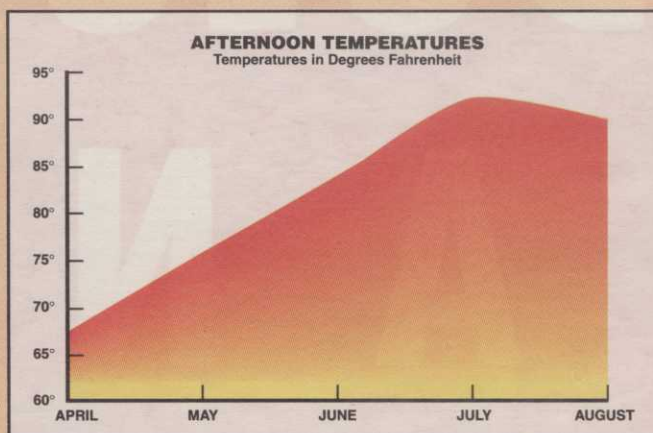
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FEBRUARY 22, 1995

Aerial infrared photography was used to determine the distribution and moisture content on the golf course. Fairways, tees, and surrounds display more uniformity and moisture content than greens.



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## BRIEFS

**PALMER TAKES OVER UNIVERSITY RIDGE**

MADISON, Wis. — University Ridge Golf Course at the University of Wisconsin has selected Arnold Palmer Golf Management Co. to operate the facility. Rated among the top 10 university courses in the country, University Ridge hosted the Big Ten Golf Championship and will be the site of the NCAA Womens Championship in 1977.

**KSL ACQUIRES 4TH FLA. LAYOUT**

NAVARRE, Fla. — KSL Fairways has acquired The Club at Hidden Creek, giving the Virginia-based firm four courses in the Florida Panhandle including Tiger Point Golf & Country Club, Scenic Hills Country Club and Shalimar Pointe Golf & Country Club. KSL Fairways plans \$250,000 in improvements to The Club at Hidden Creek.

**JACOBS, FAIRFIELD HOMES TEAM UP**

GREEN VALLEY, Ariz. — Jacobs Golf Group and Fairfield Homes, both of Scottsdale, have entered a joint agreement to own and manage the Arthur Hills-designed San Ignacio Golf Club here. Immediate plans call for golf course improvements to help playability, doubling the size of the driving range and other practice facilities.

**NORTH AMERICAN GOLF ADDS TWO**

LOMBARD, Ill. — North American Golf (NAG) has assumed management responsibility for a pair of golf courses, according to company President Michael Rippey. The courses are Glendale Lakes Golf Club in Glendale Heights, Ill., and the Governor's Club in Chapel Hill, N.C. NAG manages eight courses nationwide.



Michael Rippey

**BRASSIE EXPANDS BY 3**

TAMPA, Fla. — Brassie Golf Corp. has added three new properties to its management portfolio — Village at Sands Point in Sands Point, N.Y.; Panama Country Club in Panama City, Fla.; and Riviera Country Club in Dublin, Ohio. Brassie has added eight new properties since last fall's merger with COPM.

**CHANTILLY HIRES CASPER**

RISING SUN, Md. — Chantilly Manor Country Club has hired Billy Casper Golf Management to provide marketing consultation services for the 18-hole course, which recently converted from private to semiprivate status.

## Discount rounds program unveiled

EPI marketing excess capacity at courses

By PETER BLAIS

TROY, Mich. — The world's largest publisher of consumer discount programs is set to offer a new program designed to help daily-fee courses market their excess capacity.

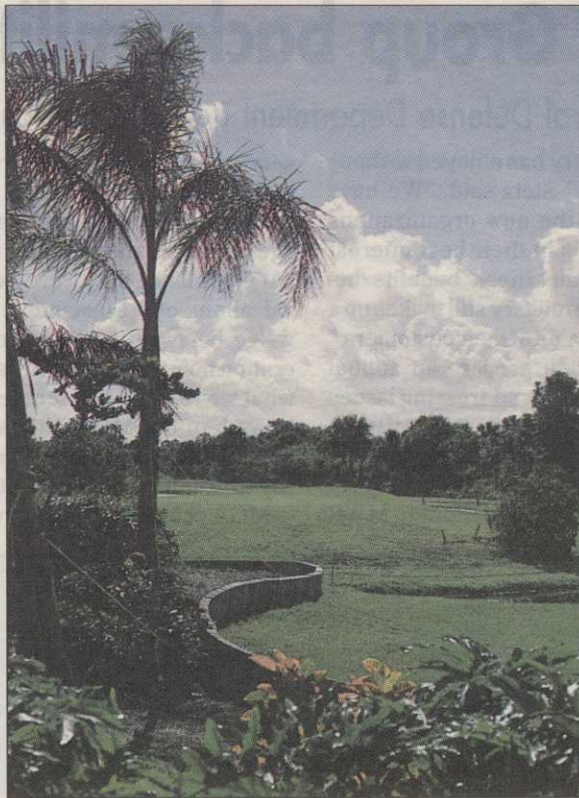
Beginning in 1996, Entertainment Publications Inc.'s Golf Program will begin publishing a National Golf Directory. The 2,000 courses

expected to be listed in the directory will provide a "Buy-One-Get-One-Round-Free" offer to Entertainment Publication's various travel club members. Some weekend and seasonal restrictions may apply and clubs may require golfers to rent carts.

The Golf Directory will be included in packets of information provided by Entertainment membership travel club clients like AMOCO MultiCard Travel Club, Exxon Travel Club and Sears Discount Travel Club. Members of those clubs take an average of 7.2 trips every year and 33 percent of them play golf, according to company figures.

"What you have is many national corporations using their money to promote golf at these courses," said Golf Program Director Bob McHenry. "We're looking for golf courses that are interested in generating more business, especially during their down times."

Established in 1962, Entertainment develops, distributes and promotes numerous publications containing discounts on lodging, dining, travel, sports and other leisure activities, including golf. Over 100,000 participating merchants are under contract. The company has 900 em-



Turtle Creek Golf Club in Rockledge, Fla.

ployees staffing its Troy headquarters and 85 local offices. Entertainment Publications Inc. is a wholly-owned subsidiary of CUC International, a public company traded on the New York Stock Exchange.

"It's worked surprisingly well," said Scott Hutchinson, head pro at Turtle Creek Golf Club in Rockledge, Fla. "We were first listed in one of their publications back in November and within two days people were redeeming coupons. That's surprising considering how many discount books are available in Florida."

"The nice thing is that the coupons bring in two golfers. The first golfer pays full price and the second one just pays for a cart. We don't have any time, day or seasonal restrictions on the coupon's use."

The new golf directory is similar to the 4-by-8 1/2-inch hotel directory the company has published for many years. It will contain a limited number of sporting goods, dining and hotel listings, but will be primarily devoted to golf. It should be available by this spring, McHenry said.

The agreement between Entertainment International and the course requires

Continued on page 80

## Friels become major players in New England

*"I'm enthralled by the joy public golfers exhibit on the course. To walk into the clubhouse at 4:30 a.m. and see people already there waiting to get out and play is a real thrill."*

— Phil Friel

By PETER BLAIS

Golf has been a part of Phil Friel's life for 71 of his 80 years, and as the above suggests, it still gives the patriarch of the Friel organization a charge.

Friel and his sons — Phil Jr., David and Tom — own 10 public courses in New Hampshire, Massachusetts and Maine. He visits the courses daily, puts in significant time at the company's Nashua, N.H., office and still shoots in the low 70s, a reflection of his 55 years as a teaching pro and seven PGA National Championship appearances.

Friel began playing and caddying at Woburn (Mass.) Country Club at age nine, rising through the ranks to caddymaster, assistant pro and head professional. World War II and the Army called him away for several years before he returned to New England where he became head pro at Nashua Country Club.

"I loved teaching, but I was always looking for land," said Friel, who, like many club pros, dreamed of one day building his own course. "There isn't much longevity in this business for golf pros. I wanted something with a little more stability."

The opportunity presented itself in the late 1950s. With the help of a friend who oversaw a trust fund, Friel purchased some farm land in



Phil Friel

Continued on page 77

## Golf Enterprises Inc. reportedly for sale

DALLAS — Golf Enterprises Inc. (GEI) is engaged in preliminary discussions with a potential buyer concerning the sale of the company for cash and securities totaling \$12 per share of GEI common stock, according to a company statement.

GEI is a Dallas-based national operator of public, private and resort courses. The company owns, leases or contracts to 43 courses in 17 states.

Discussions were preliminary and it was impossible to say whether or when a definitive merger agreement would take place.

Meanwhile, GEI is moving forward in its efforts to increase its portfolio. The company recently purchased the leasehold interest and other assets used in connection with the operation of two existing courses located at the Lely Resort and Country Club in Naples, Fla. GEI will lease the Lely Flamingo Island Club and the Classic at Lely Resort layouts.

**MANAGEMENT COMPANY UPDATE**

Gainey Ranch in Scottsdale, Ariz., is a recent addition to the ClubCorp portfolio. For a look at other management companies and their new courses turn to page 80.



By PETER BLAIS

**I**t could be a tough year for military golfers.

The federal government is scheduled to surrender control of golf courses at Fort Ord in California, Marsh Air Force Base in Louisiana and Fort Benjamin Harrison in Indiana to non-military authorities by year's end. More courses will leave the military fold in the future as the federal government continues to streamline the Defense Department.

While this means better access for the typical public golfer, it could spell the end of preferred tee times and lower green fees at those facilities for active, retired and reserve military personnel. The Military Golf Association (MGA) plans to see those benefits continue.

"Our goal is to preserve golf in the military," said Al Stetz, chairman of the 700-member association formed roughly a year ago. "We became concerned when the government started to close bases and lease or sell the courses. We're trying to grandfather the rights of military personnel to play those facilities."

There are 200 military courses in the United States and another 44 abroad, according to Stetz. Military personnel often built and maintained these facilities.

Even at the affordable fees charged the military, they have generated considerable revenue for the Department of Defense's Morale, Welfare and Recreation (MWR) department. Local MWR divisions have operated the courses and used profits to subsidize non-profit base functions such as day care and arts centers.

MGA supporters contend their long-standing relationship with these courses entitles them to continue receiving the benefits they've enjoyed in the past. For example, while testifying at last summer's U.S. Senate hearings on the fate of San Francisco's Presidio Golf Course — since turned over to the National Park Service and Arnold Palmer Golf Management — Stetz asked that the Senate bill provide for continued access to the Presidio Golf Course and all its facilities by military golfers; continued availability of preferred tee times equivalent to current usage; and green fees at the same rates as other military golf courses in the area, such as Travis Air Force Base or Moffett Field.

The Senate has not passed a final bill, although the Park Service indicated it cannot show favoritism to one group over another, Stetz said. "But the Park Service does extend discounts to senior citizens," he noted.

The government is selling Fort Ord to the local municipality of Seaside, which will hire a management company to operate the widely known Bayonet and Black Horse courses. Similar scenarios are likely at forts Marsh and Benjamin Harrison.

"We're trying to get the new operators to grandfather benefits

## Group backs military cause

Several Defense Department golf courses scheduled to privatize this year

the military has enjoyed at those facilities," Stetz said. "We have to make the new organizations aware it is in their best interest to maintain those benefits because the military still makes up a major portion of their customers."

MGA will prepare an annual position paper addressing issues such as access to military courses, fee structures and tee-time allocations. The paper will make recommendations to MWR

service chiefs and other groups with a military interest.

"We don't want to micro-manage their operations," Stetz said. "At first glance they were skeptical about our association. But we've been getting more cooperation now that they understand what we're after. We sent letters to each of the MWR chiefs, not to gain their support, but primarily to give us a point of contact."

MGA provides other services

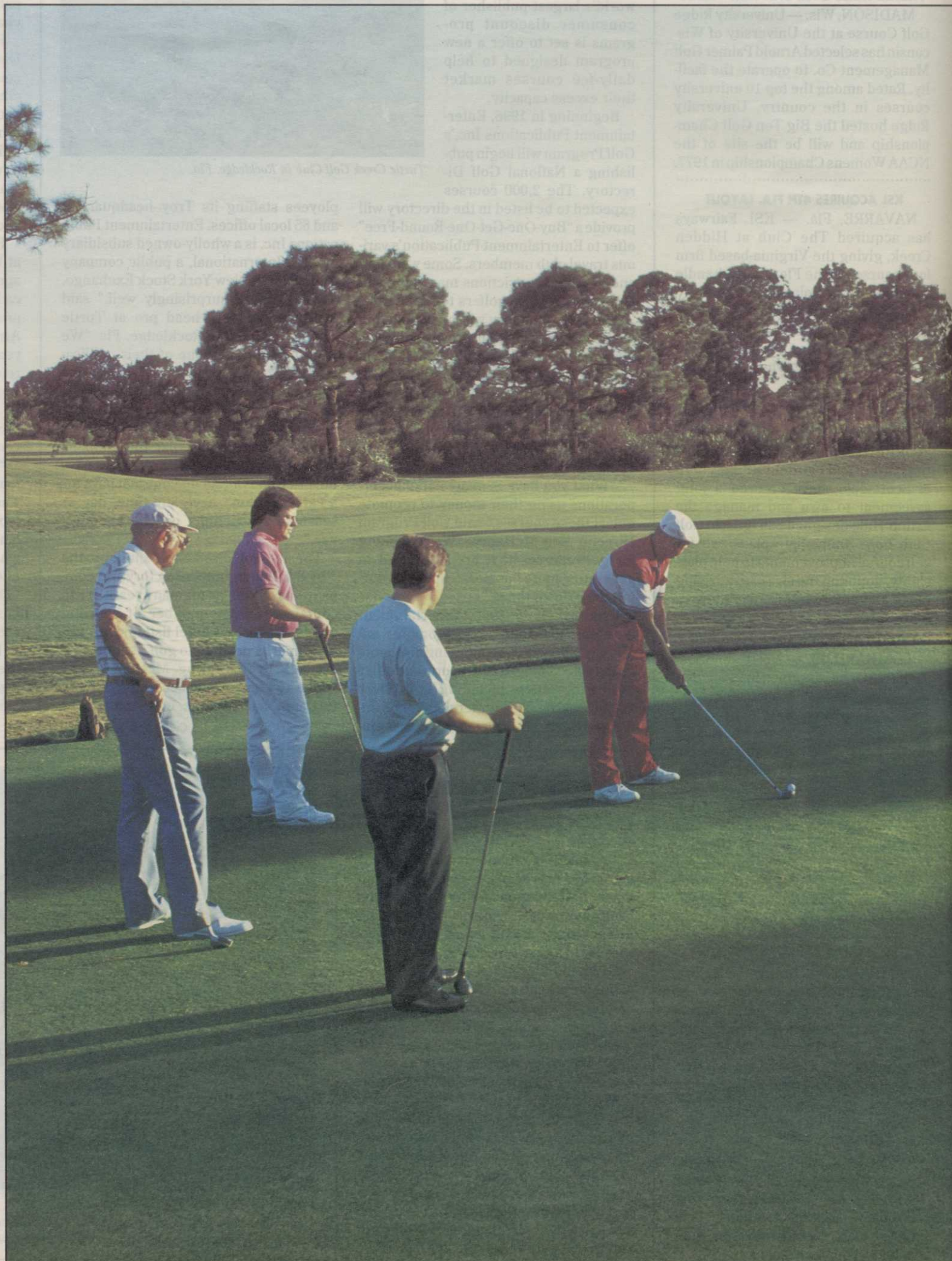
in addition to lobbying for continued access and price discounts. MGA has accumulated information on the various military courses — such as locations, yardages and handicap ratings — and makes that available to members traveling throughout the country.

"Despite the cutbacks, some bases are adding courses," Stetz noted. "They added 18 holes at Fort Belvoir near Alexandria, Va.

and are building a new 18 at Andrews Air Force Base near Washington. Pensacola (Fla.) Naval Air Station is adding nine."

One of the association's main efforts is supporting and promoting golf tournaments. MGA hopes to organize a dozen tournaments this year, highlighted by the MGA Open. This year's event will be in San Antonio.

MGA has eight volunteer staff members and hopes to double its membership this year. For more information write Military Golf Association, PO Box 2611, Kensington, MD 20891-2611; telephone 800-958-7MGA.





## LEGAL CORNER

# Raining golf balls create real nuisance

By NANCY SMITH, J.D.

While one golf course neighbor may enjoy the peace and beauty of a serene fairway view, another may find a daily barrage of golf balls akin to an unwelcome hail storm.

Appellate courts have often been asked to determine whether a course, by its very existence, is a nuisance. The conclusions vary.

In one case, Anita Hellman and Stanley Goldberg bought a house next to the existing La Cumbre Golf and Country Club

in Santa Barbara, Calif. They complained the constant flow of stray balls into their yard was a hazard. They discovered five to 10 balls every week, collecting about 1,300 over the years.

Even their automobiles were affected. Ms. Hellman had to sell her car for \$1,000 less than its standard value because of golf-ball dents. On several occasions, balls nearly hit Hellman and Goldberg. They were afraid of inviting guests during daylight hours. They did not use their

swimming pool for fear a ball would strike them. They sued the club to force it to alter fairways and stop the nuisance.

At trial, an expert for the homeowners said changing tee locations on the 10th hole would correct the problem. The course's expert witness countered the 10th tee was the facility's "signature" tee. Changing it would alter par, affecting the course's appeal and ultimately membership values, he said.

Significantly, there was testi-

mony the course had essentially been the same since opening in 1959, long before Hellman and Goldberg purchased their home. They were the first homeowners to complain.

The trial court ruled against the pair, finding they failed to establish the constant supply of errant golf balls constituted a nuisance. They appealed, unsuccessfully.

California statutes define nuisance as "anything which is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life

or property." Whether a private nuisance exists depends upon the circumstances, including an examination of the "unreasonableness" of the conduct.

In reviewing the trial, the court of appeal held it was necessary to weigh the harm suffered by property owners against the utility of playing golf. The fact golf had been the same before and after the couple purchased the house influenced the court. "Appellants came to the property with knowledge that it was next to a golf course, which put them on at least constructive notice that golf balls would be landing on their property," the court wrote.

The same court came to a different conclusion, however, in *Sierra Screw Products v. Azusa Greens, Inc.* In this case, the court found that even though offices and parking facilities were built next to an existing course, errant balls were still a nuisance.

The City of Azusa is the long-time owner and operator of Azusa Greens Golf Course. In 1969 it sold neighboring vacant land to a developer, who built offices and parking facilities. The developer brought the suit to force the course to correct the problem of balls showering the parking lot. Balls struck several employees of the neighboring businesses, damaged cars and broke widows.

The land-sale contract included safeguards against errant balls. Buyer and seller agreed if a problem arose, trees and a fence would be installed as a barrier. At the buyer's request, the city constructed 800 feet of fencing, some as high as 30 feet. But the fencing did not block all the balls.

The trial court ruled against the course, finding the balls still constituted a nuisance. The course appealed, but lost again at the appellate level. The course argued it couldn't be considered a nuisance if it was lawfully operating in a properly zoned location, relying on a state statute to that effect. But the court noted the law requires even a lawfully zoned business to operate in a safe manner. If any company uses "unnecessary and injurious methods" in conducting its business, the business can be considered a nuisance. If a better, more efficient method of doing business is available at a reasonable cost that reduces the danger, then it must be used to stop the nuisance, the court ruled.

The court of appeal endorsed the lower court finding: "intrusion of golf balls onto plaintiffs' property from the third and fourth fairways is permitted by the inadequacy of the fencing along the third and fourth fairways."

The court required the Azusa golf course to take whatever steps were necessary to redesign the course to stop the nuisance.

*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.*

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CIRCLE #177



# Friel offers insights learned during his 80 years in the golf industry

By PETER BLAIS

Phil Friel, 80, has been in the golf business since the 1920s and owns 10 public golf courses in New England.

That experience has given him some insights into the game that run counter to popular wisdom. Here are a few:

**On speed of play:** "All the focus on speeding up play is detrimental to the game," he said. "Everyone squawks about

it. It seems everybody's main goal is to get around the course as fast as they can.

That really strikes me as peculiar considering that most people have been dreaming all week long about getting onto the golf course in the first place. Golfers should take time to smell the flowers, to tell a joke and enjoy their company.

"We should be penalizing golfers for playing too fast and bumping into the people in front of them. Sort of a

speeding ticket.

You can't legislate speed of play because of the difference in golfers' abilities. But golfers are being taught to be impatient. I started writing to the National Golf Foundation [NGF] 25 years ago telling them not to bother about speed of play. They didn't listen to me then and they're not listening to me now.

"At Green Meadow [Hudson, N.H.] and Souhegan Woods [Amherst, N.H.] we start

players off the 1st and 10th tees early in the morning on weekends. If they play their first nine quicker than 2 1/2 hours, we make them wait until they were scheduled to make the turn before they can start playing the second nine. People were opposed to the idea at first, especially those used to playing their first nine holes in 1 1/2 hours. But everyone has gotten used to it over time

"It works well. Everyone is

spread around the course just perfectly. There are no hassles. And for the course operator, you actually end up selling more of the early tee times at the higher rate you usually get for those slots. By slowing play you make more money."

**On golf's future:** "Three or four years ago," he said, "I was worried about whether we could keep opening so many course [400 projected for 1995]. But it seems to be sustaining itself. We have seen many miniature golf courses and ranges open and die around here. It's simple to overbuild, especially because they are cheap ways to get into golf in the first place. But people getting into the practice range industry should be careful.

"It's the same with new course developers. Anyone building a \$5 million public course is in hot water from the start. The debt service is usually too high. Builders are often using numbers [financial projections] that are terribly wrong. It often takes two to three owners before a course gets solid financially. Whoever considers building a course today should be extremely careful.

"The NGF has been wrong forever in one area. They say it takes 25,000 people to support an 18-hole course. We've collected figures and it takes more."

**On attracting new golfers:** "The lack of affordable facilities for young people coming into golf bothers me," Friel said. "We need places where they can play for a reasonable amount of money. Unfortunately, kids can play after school and on weekends, which is when the regular courses are busiest. There's no time for kids to play.

"We've organized a group that's looking into those needs. We'd like to build a pilot, kids-only course that would charge about \$2 green fees. It would be funded with donations. It would be a full-length course requiring minimum maintenance and wouldn't compete with existing courses. We'd like other public courses to support it because it would build a market for the future."

**On target golf:** "It's insane," Friel said. "It's hard enough to hit the golf ball, period, never mind giving someone grass, then rocks, then grass again, then marsh.

"Some of this fascination with target golf is the result of golf courses being put on tough land where cost was no object. But a lot of it is largely the result of golf course architects simply trying to outdo each other."

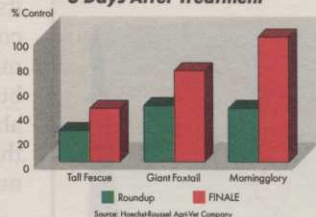
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## Phil Friel

Continued from page 73

nearby Hudson and went to work on Green Meadow.

"Banks and golf had a bad relationship going back to the Depression when the banks had to take back many properties," said Friel, who designed and built Green Meadow himself. "So you had to look elsewhere for financing."

"There were basically no courses built in New England between 1930 and 1955. Green Meadow was one of the few and was the first in the area with a fairway watering system. That was a major change. People played on burnt fairways in New England for years and didn't really think much about it. It was a game of beautiful greens with little attention paid to fairways."

The first 18 at Green Meadow opened in 1960. It was so successful that he added another 18 in 1967. "But there was really no reason to build after that," he said. "It took a long time before the market made it worthwhile again."

Part of the disincentive to build came from farmers and the government, Friel remembered. To reduce agricultural production, the federal government started paying farmers subsidies to convert their land to other uses, like golf.

"We were basically competing with the government," Friel remembered. "It just didn't make sense for a private golf developer to build around here."

But what did start to make sense to the entrepreneur in Friel was to begin buying financially-troubled courses that, with some investment, could become outstanding layouts. The first was the Country Club of New Hampshire in North Sutton. After being approached several times at successfully lower prices, Friel finally purchased the club. "A diamond in the rough," is how Friel described the original Wayne Stiles/John Van Kleeck design that was later remodeled and added to by William Mitchell.

"It was a good deal for someone already in the business," Friel said. "It needed a new watering system and someone to fix up the greens. My sons thought I was crazy when I told them it was potentially the best layout in New Hampshire. A year later they were telling me it *was* the best layout in the state."

In 1983, the family bought Cape Cod Country Club in North Falmouth, Mass.

But soon, the Friels got back to their first love, designing and building their own courses. First came son David's Overlook (1990) in

*'It just didn't make sense for a private golf developer to build around here.'*

— Phil Friel

Hollis, N.H., and later Phil's Souhegan Woods (1992) in Hudson.

"Overlook was supposed to be a private club," Phil remembered. "But it was obvious with the downturn in the economy that we weren't going to get enough members to make it fly. So we went public and it's done very well."

The potholes in New England's rough economic road claimed several other courses the Friels were able to pick up at bargain-basement prices — Sable Oaks in Portland, Maine; White Mountain Country Club in Ashland, N.H.; Whip-Poor-Will in Hudson; and Pheasant Ridge in Gilford, N.H.

"We began looking around

again because there were a lot of courses on the market that were selling for well below what it would have cost us to build them," Friel said. "We run them all as public courses because we believe that's where the game's growth will be. The highest green fee we charge is \$32 at Overlook."

Part of the reason Friel has been able to hold green fees down is that he has always designed his courses with maintenance in mind. "The more grass you can cut with big equipment, the better," he said.

That big equipment includes

3-gang riding greens mowers and 5-gang riding fairway mowers, machines Friel calls the major technological breakthroughs of the past 35 years in helping course managers deal with today's demands for top-quality maintenance on a daily basis.

"You can cut all 18 greens in two hours with a single riding greens mower," Friel said. "We have two at each course so we can start early and stay ahead of the players. We also have fairway units at each course so we can stripe the courses diagonally."

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## Architect owners

Continued from page 1

economics. "I also recognize that some projects wouldn't get off the ground without my participation," he added.

From a personal standpoint, ownership appeals to Hurdzan since it provides another source of income to supplement his design fees, which can track up and down with the economy. "The nice thing about golf is that when the economy goes down, rounds go up. Course owners have told me about people cashing unemployment and welfare

checks to pay for their round," he said.

Since many courses take five to seven years to show a sufficient profit to pay the general partners [which Hurdzan generally becomes], he considers his ownership interest an annuity that will be available when he retires.

Hurdzan's ownership percentage varies with the job. "It's usually a modest amount," he said. "Say the architect's fee is \$300,000 on a \$3 million job. That's just 10 percent. A 10 to 15 percent position is about right, although I might ask for 25 per-

cent, depending on the risk."

Hurdzan and Dye said they don't advertise the fact they are willing to take an ownership interest in exchange for their fees, but will consider it if asked by the developer.

"I'll offer to take a part interest in a daily-fee project in exchange for, say, 30 to 50 percent of my fee," said Dye, part owner of Heritage (Ohio) Golf Club (GC), Virginia Oaks GC in Manassas, Va., and Black Bear GC near Orlando [Fla.]. "It lets me stay involved with a course."

Dye's continued involvement was attractive to Black Bear

majority owner Richard Stein, who had never been involved in a golf course.

"Unless you are very knowledgeable in the business, it's nice to have someone on your ownership team who has experience," Stein said. "P.B. and his partner, Brian Boles, both have a piece of the course. Brian is my director of agronomy. He spends about three days a month here, and my superintendent can call him anytime if he has a question. Involving them was one of the smartest decisions I made."

Rather than take part ownership in exchange for his design

fee, Cupp prefers to get involved on the front end of a golf course project, becoming, in essence, one of the developers. He and golfer Tom Kite put together an investment team that included four individuals with design, management and course-operations experience, along with a major equity partner to develop the 36-hole Legends Club of Tennessee in Nashville. Cupp is also part owner of Angel Park in Las Vegas and Langdon Farms in Portland, Ore.

"We have several other projects on the verge of being funded," he added. "In every case it's based on an equity investment. It's difficult for a golf course to survive with a major debt service."

Cupp is a firm believer that privately owned public golf courses "are the way of the world for golf's future." He plans to become increasingly involved in the projects he owns and reduce his design load over the next few years.

"I do this [invest in golf courses] because it provides revenue for me," the Atlanta-based architect said. "The time is coming when I'd like to do just one course design a year."

Not all architects want to get involved in ownership. Tom Fazio had brief and limited relationships with two courses "but it [course ownership] has never been a focus for me."

While he has designed courses throughout the country, Fazio prefers to concentrate on the Southeast portion of the United States. He believes owning a course in an area could be seen as a conflict of interest if he were to try to obtain additional design work in the same locale.

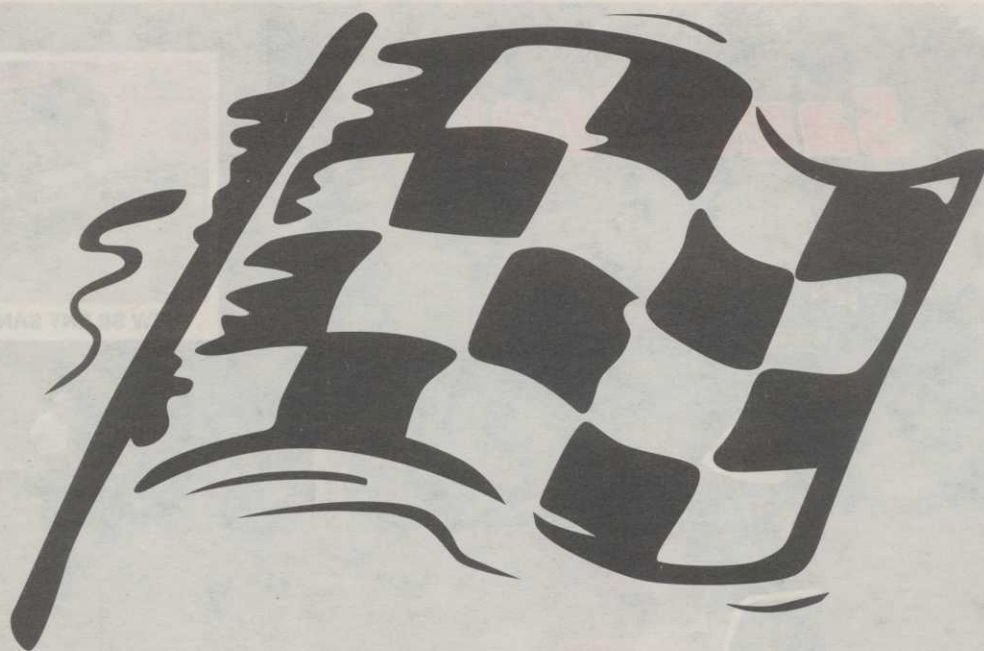
Like Cupp, Kubly prefers to get involved from the outset in the investment end of golf projects. And since his building firm controls a larger portion of the purse strings — "an architect's fee is usually between \$200,000 and \$400,000 while a builder controls anywhere from \$1.5 million to \$5 million" — he can engineer larger savings and usually commands a larger ownership percentage.

Kubly is part owner of five golf facilities including: Amana (Iowa) Colonies, 28-percent stockholder; Champions Club of Omaha (Neb.), 50-percent interest; Bradshaw Farm in Atlanta, 45-percent interest; Lake Park Golf Course in Dallas, 17-percent interest; and a second, as-yet-unnamed course in Omaha, 50-percent interest. In most cases, the original developer approached Kubly about the deal, he said.

"It's part of the growing partnering syndrome," Kubly said. "If a builder can partner with people who know something about other aspects of the golf business, you have the best of both worlds."

"I believe you'll see more of this in the future."

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## CMAA to elect new officers during annual meeting

HONOLULU — The Club Managers Association of America will elect a new slate of officers during its World Conference on Club Management scheduled for Feb. 12-16 here.

George Carroll, general manager of the Town & Country Club in Saint Paul, Minn., will be elected president and John Jordan, general manager of Cherokee Town & Country Club in Atlanta will be elected vice president.

Carroll has been at his current post since 1986. He has been a member of the association since 1979 and was elected to the board of directors in 1988. He has

served on several national committees and is a past president of the Upper Midwest chapter. He received a bachelor's degree from St. Thomas College in St. Paul.

Jordan has been the general manager of Cherokee T&CC since 1967. He first joined the managers' association in 1965 and has been on the CMAA board of directors since 1990. Jordan has served



George Carroll

on several national and chapter committees and is a past president of the Georgia chapter.



John Jordan

Two candidates will vie for the secretary/treasurer position — Willmoore Kendall, general manager of the Woodmont Country Club in Rockville, Md., and Paul Skelton, general

manager of Troon Golf & Country Club in Scottsdale, Ariz.

## Kemper makes Lesnik marketing manager

NORTHBROOK, Ill. — Kemper Sports Management recently made Josh Lesnik responsible for all marketing activities as the golf course management and development company's marketing manager.

Lesnik will develop marketing and promotional plans for all of Kemper's managed, leased and owned golf course facilities, as well as provide market analysis on new business opportunities.

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## Courses added by management firms in recent months

Company/Course	City	State	Company/Course	City	State	Company/Course	City	State
<b>American Golf Corp. 310-315-4200</b>			<b>Brassie (cont.)</b>			<b>ClubCorp (cont.)</b>		
Bidwell Park GC	Chico	CA	Nort Port National	Lake of the Ozarks	MO	Stonehenge G&CC	Chesterfield County	VA
Hiddenbrooke CC	Vallejo	CA	Village at Sands Point	Sands Point	NY	<b>Golf Enterprises Inc. 214-247-1199</b>		
Silverhorn GC	Oklahoma City	OK	Riviera CC	Dublin	OH	Heritage Links GC	Gainesville	FL
Ruffled Feathers GC	Lemont	IL	<b>Carefree Resorts 602-953-6400</b>			Smokey Mountain CC	Smokey Mountain	NC
<b>Arnold Palmer Mgt 407-876-6700</b>			Ventana Canyon G&R	Tucson	AZ	Corvallis CC	Corvallis	OR
Brierwood CC	Buffalo	NY	<b>Classic Golf Group 941-299-0900</b>			Indian Creek GC	Carrollton	TX
<b>Billy Casper Golf Mgt 703-761-1444</b>			Hamptons GC	Auburndale	FL	Manassas Park GC	Prince William Cnty	VA
The Links at Challedon	Mount Airy	MD	<b>Club Resorts Inc. 214-243-6191</b>			<b>GolfCorp 214-888-7766</b>		
Chantilly Manor CC	Rising Sun	MD	Columbia Lakes Resort	West Columbia	TX	Bele Terre CC	La Place	LA
Kennebec Heights CC	Augusta	ME	<b>ClubCorp 214-243-6191</b>			<b>Greenlinks 615-373-3200</b>		
<b>Brassie Golf Corp. 813-621-4653</b>			Gainey Ranch GC	Scottsdale	AZ	<b>KSL Fairways 703-330-5300</b>		
Panama CC	Panama City	FL	Hunter's Green CC	Tampa	FL	Club at Hidden Creek	Navarre	FL
						<b>Marriott Golf 704-850-0077</b>		
						Kierland GC	Scottsdale	AZ

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## Discount coupons

Continued from page 73

certain things of both parties.

Entertainment bears all the expenses of promoting the golf course to travel members in its various publications; actively pursues new travel members; provides literature on the program's operation to supplement training of the golf course staff; anonymously verifies throughout the year the level of service and Entertainment program knowledge provided by course staff to Entertainment members; and provides a customer service number to answer guest and golf course staff questions.

It costs nothing for a course to be listed in the directory. But the course is responsible for honoring the terms and conditions of the agreement; understanding and implementing the Entertainment Golf Program in its daily sales and marketing activities; educating course staff on the program's use; and providing Entertainment travel members the same quality service and amenities offered every paying customer.

Courses wanting to reach a regional rather than national audience can place the same offer in coupon form in one of Entertainment's 130 city/area editions that contain coupons for a variety of lodging, dining and other leisure-activity facilities.

For example, the Greater Boston & North listing includes discount coupons at six Massachusetts golf facilities — i.e. Apple Country Club (CC) in Chelmsford, Atlantic CC in Plymouth, Merrimack Golf Club (GC) in Methuen, Berlin CC, Max's Country Golf in Tyngsboro and Groton CC — as well as Pocasset CC in Portsmouth, R.I.

"The golf program has been very successful with those courses that have tried it," McHenry said.

"It's a way to attract people to those unsold tee times and earn the course some extra money."

For more information, contact McHenry at Entertainment Publications Inc., 2125 Butterfield Road, Troy, MI 48064; tel. 810-637-8400.

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## AGC, Alcott join forces to promote golf for women

SANTA MONICA, Calif. — American Golf Corporation has selected LPGA pro Amy Alcott as national spokesperson for its "Women in Golf Day," a program in which all 200-plus AGC-operated courses will offer free golf lessons, demonstrations, seminars and other activities for women on May 18.

More than 20,000 women nationwide are expected to participate in the unique program, which is being spearheaded by American Golf's "Women in Golf Task Force" — a management committee developed last year to identify key issues affecting women in the sport and to initiate or enhance programs and services that ensure golf parity.

"With women comprising more than 40 percent of new golfers, we need to concentrate more than ever on developing programs that continually introduce women to the sport and ensure that our services and facilities provide equal access and opportunities for women," said AGC Vice President and Corporate Counsel Loretta Raftery, a member of the task force.

The sixth all-time money winner on the LPGA Tour, Alcott has five major championship titles to her credit: The Canadian Open, U.S. Open and a record three Nabisco Dinah Shore Championships. In all, Alcott has amassed 33 professional titles worldwide.



Amy Alcott

## NGP acquires two courses in Ore., Pa.

WEST LINN, Ore. — National Golf Properties, a real estate investment trust, has acquired The Oregon Golf Club here in suburban Portland for \$10.7 million.

National Golf Properties acquired 11 golf courses in 1995 at a total investment of \$83 million. The club will be leased to American Golf Corporation, which operates 190 courses in the United States and United Kingdom.

The Oregon Golf Club is a private facility and hosts the annual Fred Meyer Challenge, a nationally televised golf event featuring numerous PGA Tour golfers.

Peter Jacobsen designed the club's 18-hole course, considered one of the top layouts in the Northwest.

NGP followed its Oregon Club purchase with its first acquisition of 1996, Golden Oaks Country Club in Reading, Pa. The price was \$5.6 million.

NGP will receive minimum annual base rent equal to 9.75 percent of its invested funds. Minimum base rent will be adjusted in specific years based on increases in the Consumer Price Index. A percentage-rent feature also allows NGP to participate in revenue growth. Constructed in 1993,

Golden Oaks has an 18-hole daily-fee course and 10,000-square-foot clubhouse. NGP will also lease Golden Oaks to AGC.

NGP reported funds from operations of \$28.1 million or \$1.46 per share in the nine months ended Sept. 30, 1995. That's a 9-percent increase over the same period a year earlier.

NGP owns 78 courses in 23 states plus a single course in the United Kingdom.

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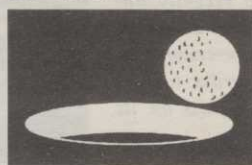
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A worker lays out rolls of hybrid bermudagrass sod at the Vintage Club in Palm Springs, Calif. The Vintage club recently underwent a successful conversion from bentgrass to bermudagrass on its greens.



## Desert courses switch to bermuda

PALM DESERT, Calif. — Following the latest trend in prestigious desert-area golf courses, the Vintage Club and the Palmer Course at PGA West in La Quinta, Calif., have sodded their greens with West Coast "old line" Tifdwarf hybrid bermuda.

At the Vintage in Palm Desert, one of two existing courses was converted from bentgrass to bermuda. More than 100,000 square feet of bermuda sod was installed by West Coast Turf.

PGA West chose Tifdwarf hybrid bermuda sod for the greens

at the Palmer Private, replacing bentgrass greens as well. West Coast Turf was again the supplier.

"We are seeing this trend particularly in the desert areas because bentgrass is a cool-season grass, and historically it suffers during the extreme summers. Tifdwarf survives beautifully through the summer," explained West Coast's Joe Foster.

"Bentgrass is expensive to maintain and requires more chemicals to stay alive in the summer than bermudagrass, and Tifdwarf hybrid bermuda greens can play just as well as bentgrass greens when properly maintained."

Virgil Robinson, director of agronomy for KSL's eight PGA West and LaQuinta layouts, said members at the Palmer course have been very positive about the conversion. "We shut down the course for six weeks right after Memorial Day," Robinson said. "We stripped out the old bentgrass, added some organic amendments and resodded with bermuda. We've been back in play since mid-July and the greens are in great shape."

"The Palmer course has more forgiving greens than some of our other courses. Since it's harder to hold the ball on bermuda, the Palmer course could better afford the conversion to bermuda than our other courses."

Robinson said bentgrass can thrive in Palm Springs, although it does better in windy areas along Interstate 10 than it does on courses that back up against the mountains thus restricting air movement. The key to growing healthy bentgrass in the desert is a proper green subgrade that percs in the six-to-10-inch-per-hour range rather than the half-inch-per-hour, fine-graded, blow-sand greens commonly found in Palm Springs.

"Bermuda will grow in spite of that [low perc rates]," said Robinson.

Another reason to resod with bermuda rather than re-establish bentgrass is expense, Robinson added. Resodding 18 greens with bermuda costs about \$100,000, compared to the \$800,000 price tag to rebuild 18 greens to re-establish bentgrass, he added.

Vintage superintendent Douglas Anderson was pleased with the results of his bermudagrass conversion. "We are in the off-season right now," he said in late September, "so the real test will be in December, January and February when we will get our member feedback. I have had nothing but a positive experience with the transformation, and I am anticipating a positive reaction from our members as well."

Other desert clubs that have planted bermuda include The Quarry in La Quinta, Calif., Desert Falls in Palm Desert, Calif., McCormick Ranch in Scottsdale, Ariz., the Raven at South Mountain in Phoenix, Ariz., and the 49'r Club in Tucson, Ariz.

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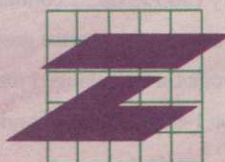
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## BRIEFS



### CYANAMID PROMOTES CLARK

WAYNE, N.J. — American Cyanamid has named Curtis Clark sales manager for the Turf, Ornamental and Pest Control group. Clark will oversee Cyanamid's sales force for consumer products. Clark will also be responsible for the group's professional products, including Pendulum herbicide. Clark, 34, previously was market manager for Cyanamid's consumer lawn and garden products.



Robert G. Bacon



Janne Viking

### PARCAR FILLS SALES POSITIONS

REEDSBURG, Wis. — Columbia ParCar has announced the promotion of Robert G. Bacon as regional sales manager for Columbia ParCar-Wisconsin. Columbia ParCar-Wisconsin is the Wisconsin distributor of Columbia ParCar products throughout the state and Upper Peninsula of Michigan. Columbia ParCar also announced the addition of Janne Viking as its new regional sales manager for the Western U.S.

### GREENSWAY PATENTS STABILIZER

PLACENTIA, Calif. — Chris Johnson of Greensway Golf Co. has been awarded the patent for a new stabilizing system for quick couplers, sprinkler head and mainline pipes. The patent was issued by the U.S. Patent Office in October 1995. The stabilizing system, designed for golf courses, parks and other turfed areas, prevents costly repairs from sinkage or other movement. The mainline product supports the pipes during installation so proper bedding and backfill is insured. For more information, contact Johnson at 714-528-1185 ext. 45; or fax 714-996-9387.

### GALLO & BURNLEY REP AQUAMASTER

KIEL, Wis. — Aquamaster Fountains and Aerators has announced Gallo & Burnley Associates, Inc. will represent firm's Fountain Aeration and Sub-Surface Aeration product lines in New England, Delaware, Maryland, New Jersey, New York, Pennsylvania, Vermont, Virginia and West Virginia, as well as the Canadian Maritimes and Quebec. For distribution and product inquiries, contact Phil Gallo at 860-350-5111 or Kerry Burnley at 610-827-5086.

## Hueber debuts new bunker rake in Orlando

By HAL PHILLIPS

PONTE VEDRA BEACH, Fla. — David Hueber, perhaps the most widely traveled executive in golf, has resurfaced here — in the sand rake business. Sabertooth Golf, a division of D.B. Hueber Golf Co., will unveil three golf rakes — the Dual Action, Dual Tine and Professional models — at this month's International Conference and Show in Orlando.

"We started shipping the rakes last fall but our official coming out party will be in Orlando at the GCSAA show," said Hueber, who added that Sabertooth will not limit itself to rakes. "The business is going to be one that offers genuinely unique products that aren't available from many sources."

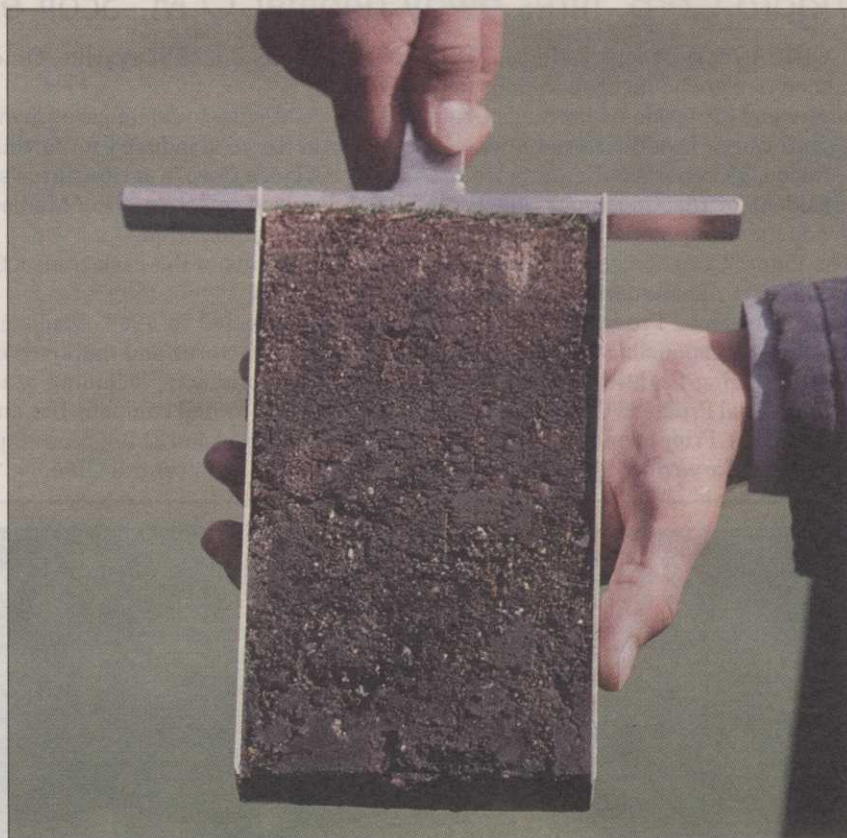
Hueber's sheer variety of golf industry experience is difficult to match; and difficult to follow without a time line. Having served as an assistant to PGA Tour Commissioner Deane Beman, Hueber joined the National Golf Foundation as president in 1984. After five years at the NGF helm, Hueber left to become an executive vice president at the Ben Hogan Co. Promoted to president and chief executive officer (CEO) in 1990, he resigned in 1992.

In January 1993, Hueber joined Golfsmith as executive VP and chief marketing officer, only to resign five months later. He then joined Canadian rake and club manufacturer Accuform Golf Corp. as president and CEO in January 1994, only to resign after nine months. In October 1994, he joined the Raymond Floyd Group as president and CEO, only to resign shortly thereafter.

"I was at Floyd for less than two months," Hueber explained. "I was recruited to go there. That's why I left Accuform. It just didn't work out [with Floyd]. No hard feelings."

"I was introduced to rakes at Accuform. I saw it was a good business and while I was there, it grew rather significantly. So when I was looking for business opportunities after the Floyd Group, it seemed like a good fit — designing my own product. It's the essence of entrepreneurship."

Continued on page 87



### NEW PRODUCT OF THE MONTH

Now it's easy to pull a quick, clean sample of the root zone anywhere on your course, with surgical precision. Standard Golf's new Soil Profile Sampler produces an 8-inch by 4-inch slice of soil only three-quarters of an inch thick. Constructed of steel with a zinc-plated, case-hardened blade, the Sampler is designed for checking root development, compaction and other soil characteristics within 8 inches of the surface. Just pick a spot, grab the handles, step down and pull. For more information, contact Standard at 319-266-2638; or drop by the booth (#1551) in Orlando. For more new products, see pages 88-90.

## Seaboard added to Lebanon identity

LEBANON, Pa. — Katherine Bishop, vice president and chief operating officer of Lebanon Chemical Corp., has announced the company name change to Lebanon Seaboard Corp.

"The new company name reflects Lebanon's expanding role in the turf marketplace," said Bishop, whose multi-national firm manufactures and distributes a wide range of turf products for the professional, retail and agricultural markets.

Lebanon Chemical, founded in 1948 by Vernon Bishop, acquired Seaboard Seed Co. — a grass seed producer — in 1993.

## Jake, Gravely team in Europe, Australia

RACINE, Wis. — The Jacobsen Division of Textron, Inc. and Gravely International have formed a strategic alliance for distribution of turf maintenance products in Europe and Australia, according to Harold Pinto, vice president of sales and marketing for the Jacobsen Division of Textron.

The agreement means Jacobsen and Gravely will use Jacobsen's distribution network to provide products and service throughout Europe and Australia, according to Zen Kulpa, director of international marketing for Gravely.

Gravely International, a division of Ariens Company of Brillion, Wis., producing lawn and grounds maintenance equipment since 1916, is headquartered in Winston-Salem, N.C.



### TEXAS FIVESOME CLAIMS JOHN DEERE CHAMPIONSHIP

The team representing the Tony Butler Golf Club in Rancho Viejo, Texas, took first place in the ninth annual international John Deere Team Championship Golf Tournament, held late last year on the Falcon Course at Wild Wing Plantation in Myrtle Beach, S.C. The Deere Team Championship is designed to promote teamwork at individual golf facilities, as each club team is comprised of the superintendent, pro, manager and president — plus their local Deere distributor. Members of the winning team include (from left) golf course superintendent Richard Flores, pro Randy Walker, board member Michael Murphy, city commissioner Dr. James Rowe, and Chad Mobley, representative of Austin Turf & Tractor, the club's local John Deere golf and turf products distributor. The Tony Butler team outplayed 30 teams from across the U.S. and Canada to win the title.



## Vigoro Corp. hires away another O.M. Scott executive

CHICAGO — Joseph L. Rocco III has been named vice president of operations for the Consumer and Professional Products Group at The Vigoro Corp., headquartered here.

Rocco, 36, reports to Kenneth Holbrook, Jr., president of the Consumer and Professional Products Group and senior vice president of The Vigoro Corp. Rocco will be based in Winter Haven, Fla., headquarters for the Consumer and Professional Products Group.

Rocco is responsible for managing the eight manufacturing facilities of the Consumer and Professional Products Group located in the U.S. and Canada. Prior to joining Vigoro, Rocco was director, Marysville Manufacturing for The

Scotts Co. of Marysville, Ohio.

...

Moving to capitalize on growth opportunities in the seed industry for fertilizer retailers, The Vigoro Corp.'s agribusiness subsidiary has acquired select assets of Madison Seed Co., Inc. of London, Ohio.

Terms of the cash transaction were not disclosed.

Founded in 1968, Madison is a developer, manufacturer and marketer of wide variety of seed products, including grass seed. The privately owned company has annual revenues of \$7 million and 21 full-time employees at several locations in central Ohio.

## Zeneca moving to support 5504

WILMINGTON, Del. — Zeneca Ag Products has submitted a package of information to the U.S. Environmental Protection Agency for the registration of its promising developmental fungicide, coded 5504. The registration package covers product uses on turf and grapes.

Vern Hawkins, fungicides business leader for Zeneca, said the company would submit data for registration on many additional crops in the future. Zeneca anticipates that the fungicide could be commercially available by 1997.

Hawkins said 5504 is a broad-spectrum fungicide from a new class of fungicide chemistry, the strobilurins.

...

In related Zeneca news, the firm has announced a \$16 million investment at Zeneca Ag Products' Cold Creek, Ala. site.

The investment will expand the facility to manufacture 2-cyanophenol, an intermediate product for the company's new fungicide, coded 5504. This derives from a totally new class of fungicide chemistry developed by Zeneca.

### RISE NOTEBOOK

## Langley joins RISE; MCS conference set for March 20

WASHINGTON, D.C. — Long-time DowElanco employee Fred Langley has joined the staff at RISE (Responsible Industry for a Sound Environment) as manager, State Government Relations.

Langley has 28 years of experience with DowElanco, most recently as government relations manager for the Eastern region. Previously he served as the firm's national specialty issues manager.

In his new position with RISE, the specialty chemical trade group, Langley will be responsible for tracking state legislative and regulatory issues affecting the industry, keeping members up to date on the status of these issues, developing coalitions with other industry groups, and testifying at relevant hearings.

Langley will work on a consultant basis from his New Hampshire office. He can be reached at 603-430-8907.

...

RISE will hold a Multiple Chemical Sensitivity (MCS) symposium in Atlanta for member company representatives on Wednesday, March 20, from 8 a.m. to 1:30 p.m. Program features include presentations on the medical, legal and policy viewpoints of MCS, as well as a panel discussion to answer questions.

For more information on attending the symposium, contact RISE at 202-872-3860.

### YARBOROUGH JOINS TERRA

SIOUX CITY, Iowa — Terra International, Inc. has appointed Bob Yarbrough to the position of northern division professional products manager. He is now responsible for providing marketing direction for Terra's turf and ornamental business. Yarbrough has worked in the industry for 17 years, most recently as vice president, control products group, for Cleveland-based Lesco, Inc.



"We have been using ROOTS™ for a couple of years, and started the 1-2-3 Program in November 1994, spraying every three weeks since then. We have better rooting on our greens during spring transition than I have seen in years past. The 1-2-3 Program may not be entirely responsible for the enhanced rooting, but our overall turf quality has definitely improved since the initiation of this program."

John Walker, Golf Course Superintendent  
Weston Lakes Country Club

1-2-3

roots inc.

A Division of LISA Products Corporation  
3120 Weatherford Road, Independence MO



## EPA improves?

Continued from page 1

EPA appears to have made monumental strides — not only regarding the speed with which it handles registration applications, but its flexibility exhibited during preregistration. Much of the credit goes to the newly organized Office of Pesticide Programs (OPP), comprising the Registration Division and the until-recently experimental Biopesticides and Pollution Prevention Division (BPPD). The latter division, now permanent, has proved an unqualified success. BPPD was formed in November 1994, on a trial basis, charged with a number of missions: promoting pollution prevention; increasing adaptation of IPM techniques; encouraging the development and use of safer pesticides; accelerating the registration of new biological pesticides; managing the reregistration actions for all biological pesticides; and reducing pesticide use.

While the latter directive might rankle some, BPPD has, by and large, proved popular among turf & ornamental manufacturers and formulators, who've responded by bringing more reduced-risk products to market.

"BPPD was formed as a pilot division to take on the biochemicals, biologicals and microbial pesticides — those that pose less risk — and get them to market in a more expeditious manner," explained Leonard Coles, special assistant to the director of the OPP's Registration Division. "We've tried to expedite review of chemicals that represent reduced risk, and those that might replace a cancer-causer or ozone-depleter, like methyl bromide."

"We've had good feedback from the industry. And why not? They lobbied to get it. We formed it and now it's a permanent division."

According to Coles, BPPD registered 41 chemicals — including 19 biological pesticides — during fiscal year 1994, a one-year record at EPA.

Industry observers have also sensed a new spirit of cooperation at OPP. Whereas EPA in general, and OPP in particular, have traditionally been viewed as obstructionist, they are now showing signs of accommodation — especially when it involves registration of reduced-risk pesticides or replacing currently-registered-but-highly-toxic products.

"We felt that we did get a speedy review of Pendulum Plus Fertilizer because of the approach we took," said Thomas, American Cyanamid's senior product development manager for Turf & Ornamental. "We had tried to attain a registration for a broad range of factors under one label. Instead of saying, 'No way. Try again.' EPA came to us and provided a lot of guidance as to how to proceed quickly."

"In that same vain, we originally sought a registration for Pendulum Plus a particular grade of fertilizer. Once we had that, we wanted to market a whole range of fertilizers with that same amount of Pendulum. EPA said we didn't have to go back and wait

for individual approvals for each type of fertilizer.

"We just received registration for Pendulum 2-percent granule [for flower beds]. Here again, EPA's response for that particular product was extremely rapid. I was amazed."

A large measure of what EPA has accomplished, much of it through BPPD, can be traced to mere practicality, furthered by this new spirit of cooperation. EPA certainly has an agenda: to register more reduced-risk products. The industry also has an agenda: to register products more quickly and cost efficiently.

While EPA and the chemical industry have long been at cross

purposes, it seems their strategies have begun to overlap.

"What we're looking for is the best products with the least impact: decreased use rates per acre," said Raymond, AgrEvo's marketing manager for specialty products. "And EPA has streamlined its processes; by allowing data submitted on computer disks, by allowing communications via computer, etc."

"A lot of it is common sense, like our product that was recently registered, Prostar Plus, which is a mix of Prostar and Bayleton. It controls dollar spot and brown patch. We got it through on one of EPA's new rules: If there are two packages, two existing reg-

istrations in one box, they consider it two existing registrations — not a new one. So we didn't have to bother with a whole new registration process."

"Another thing they've done differently: The water-soluble film we've been using is more easily registered now because EPA considers it an inert ingredient. At one time they wanted a whole new toxicology package."

Reduced pesticide use — one of EPA's most controversial goals under the Clinton Administration — assumes a less ominous tone in the context of its Safe Pesticide Policy (SPP), which gives fast-track treatment to products that might replace

more-toxic chemicals already registered by EPA.

"It pits one product against another," said Thomas. "Here's an example: We have this product, RH-0345, jointly developed by American Cyanamid and Rohm and Haas. It's a new class of insecticide chemistry for grub control that is significantly safer than the currently registered organo-phosphate (OP) insecticide."

"EPA is looking to find replacements for the OP chemistry. When they heard the arguments we posed regarding increased safety, they accelerated the review process and put us on the fast track."

"It could save us a year or more of the registration process."

## We'll keep the pesticide industry from becoming a victim of air pollution.



Ahh, television news in the 90s.

Tabloid journalism has sneaked its way onto the airwaves. And the pursuit of facts seems to have been replaced by the pursuit of ratings.

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facturers, formulators and distributors from all areas of the specialty pesticide business.

In addition to promoting environmental stewardship, RISE makes sure the media doesn't report misinformation as fact.

We also hold editorial meetings with media decision-makers. And respond to negative articles or broadcasts that are incorrect. We've been very successful so far. Not suprising considering what

our most powerful weapon is. The truth.

Of course, there's still a lot more work to do. But rest assured, RISE is up to the task.

Because we know if we eliminate air pollution, the pesticide industry can breathe a lot easier.



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## Lack of GCSAA input doesn't sit well with Asian supers

By ROB GLUCKSMAN

HONG KONG — Last year, the Golf Course Superintendents Association of America (GCSAA) announced it had relinquished its booth-sales role at Golf Asia, leaving the organization to concentrate on an associated educational seminar, the sixth Asia Pacific Golf Conference, scheduled for March 20-24.

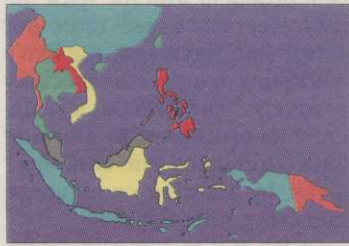
However, the seminar's paucity of maintenance-related topics has some Asia superintendents disillusioned.

"It costs me more to send

someone from my staff to Singapore, put him up and feed him for four days, than it does for me to go to Orlando for a week," said one superintendent and GCSAA member. "I can't justify this agenda to my green committee. No way anybody from here's going this year."

"GCSAA's got hundreds of members out here in Asia, and they just keep on screwing us. And they're missing one hell of an opportunity to do a lot of good."

Following annual changes in format, the consensus among



Golf Asia attendees in 1995 was that GCSAA was just starting to get it right. Last year the show offered a combination of brief, basic overviews for local superintendents and assistants with little formal training; and a number of

in-depth programs for trained superintendents, including sections which offered certification credit.

This year's show is a dramatic change. The keynote speaker will be Bob Hawke, former prime minister of Australia and an avid golfer, who will be followed by individuals primarily in the management industry speaking on topics ranging from clubhouse management to course etiquette.

The list of "recommended attendees" ranges from developers to journalists, but does not include maintenance personnel.

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The range of speakers in many ways parallels that found at the first Hong Kong and China Golf Conference and Show, held in mid-November at the Hong Kong Exhibition Centre. Organized by Stephen Allen — a former vice president at Connex who had managed Golf Asia until he left the firm last year — the HK conference included discussions of environmentally friendly golf courses and development options, featuring several well-known speakers including Robert Trent Jones Jr. and J. Michael Poellot.

Thanks in no small part to the US\$880 entrance fee for the two days, the conference began with fewer than 50 attendees in the 600-seat auditorium and finished with eight (Trent Jones Jr. attracted 36 and Poellot 32), though organizers claimed a large number of paid participants had not shown up.

The show section of the Hong Kong exhibition was only marginally better, with many architects — the core of the show — and equipment companies noting that traffic was minimal. The redeeming feature was that the estimated 600 or so who attended over the three days were largely serious about the industry; though, by the same token, many were already customers. Some exhibitors found good leads and several took a "wait-and-see" attitude.

They didn't have to wait long: Stephen Allen has announced his Hong Kong and China Conference and Exhibition will be held this year in Shanghai, where there are now two courses, another 10 in development, and perhaps 20 on the drawing board. With fewer than 50 golf course projects in southern China and the government's ongoing crack-down on land development, several exhibitors were left to wonder what the fuss had been about.

"I haven't seen anything here that makes me think we're missing the boat by not going into China," said Bill Cornwell of Pacific Golf, a development and construction company.

## Wilbur-Ellis takes Asian initiative

BANGKOK — With the purchase of Siam Source Trading Ltd. through its international arm (Connell Bros.), Wilbur-Ellis Co. (WECO) of San Francisco has immediately become a player in Southeast Asia.

WECO had been looking for an entry into the Asian industry for years. When Source — a trading firm which represents Vigoro Industries, PBI/Gordon, ADS drainage, Parkway Research, and several other companies in Thailand — approached it concerning a joint venture, WECO responded with the offer of a buyout. Source's principals accepted.

For more information on the merger, contact Hugh Parker by fax at 011-662-391-5556.



## Hover-mower manufacturer recapitalizes

By HAL PHILLIPS

YARMOUTH, Maine — Banking on their domestic manufacturing operation, engine-design innovation and an influx of capital, the new owners of Grasscraft, Inc. hope to make a dent in the hover mower market this year.

Grasscraft is celebrating its fifth anniversary in 1996. Unfortunately, the first four were marked by a woeful lack of working capital, making service and expansion extremely difficult. Steven Searle, Grasscraft's new president and chief executive officer, hopes to change all that.

"We're prepared to invest the needed capital and manpower to meet our goals: A three-fold increase in sales and production over the next three years," said

Searle, who purchased the firm in October 1995.

In a market dominated by Flymo and Allen — two British firms with U.S. distribution — Grasscraft sees its Maine-based manufacturing operation as a selling point.

"People realize that since we manufacture domestically and sell direct to our customers, we can offer lower pricing and better service," said Searle. "Getting warranty work done and ordering parts from a foreign company can be a real problem."

Added David Rodway, Grass-

craft's VP of sales: "A big part of our marketing program is dealing direct... I think we're going to sell half the mowers at dealer price. We want to pass that savings on to the course by dealing direct."

Searle and Rodway said the golf course market has always been receptive to the Grasscraft product, with its nylon safety cutter blades, unbreakable polyethylene deck, 5-hp, two-stroke Tecumseh engine and aircraft quality, computer-designed impeller.

However, the firm isn't standing pat. Current research and

development efforts are focused on a 4-cycle prototype now being tested in North Carolina.

"The 4-cycle engine is about five times quieter," Rodway explained. "It doesn't pollute near as much as the 2-cycle because the oil and gas are separate... It's also much more durable. The best example of that? Well, when you get into heavy grass with a 2-cycle, it bogs a little bit and you may have to pull off. The 4-cycle blows right through it."

While Grasscraft intends to deal directly with superintendents, some distributor relationships are inevitable. The firm has already lined up Agri-Pacific to rep the

product in Asia-Pacific.

"Our mower is made in the USA, every piece of it," Rodway said. "We've visited a lot of superintendents and it's very difficult to get parts. We have the capital and the manpower to service this product. We realize the sale doesn't stop when the mower is shipped."

"We think it's important people realize we have the funding, the capital to back this thing up — to have enough stock, to have enough parts to make it work."

For more information, contact Grasscraft at 1-800-646-6013, PIN #4319; or drop by their booth (#293) in Orlando.

## Hueber resurfaces

Continued from page 83

"If Accuform had insisted on a non-compete clause, then it would have been a different matter. But they didn't."

However, Hueber's plans to launch the Sabertooth rake line were diverted this past fall when Accuform, citing U.S. patent protection (no. 4,41,150), demanded that Sabertooth cease and desist marketing, selling and manufacturing its round-backed rake called the Original.

"Our patent is pretty broad and protects us with regard to rounded backs," said Accuform spokesman Neil McDougall.

Hueber never admitted liability but discontinued the Original line.

"My former partners felt that one of our rake designs came a little too close to the design of the Accuform rake," he said. "They made their points very aggressively. But I didn't want any bad feelings. In the interest of goodwill, I've made alterations to the rake in question and have applied for patent protections."

The rake once known as the Original has been modified and renamed the Dual Action. The new model features on its rounded back a ridge designed for smoothing traps and squeezing water off greens.

All Sabertooth rakes sport an egg-shaped cylindrical head providing an elongated sleeve designed to hold the handle more securely. They also feature a golf grip to avoid splinters from sun-worn fiberglass handles.

"The tines are also shaped differently — like a saber tooth, wider at the base — so they're stronger and don't break off as easily," noted Hueber. "The rake is really very different. Injection molded. Difficult to crack. Far different from any other rake out there."

Hueber said he has secured several distribution channels and will pursue more. "I do have some sales reps and we will direct market the product," he added.

The firm can be reached by calling 1-800-664-3545. It's booth number in Orlando is 2692.

GOLF COURSE NEWS

**EVERY MORNING, THERE ARE TWO THINGS YOU CAN COUNT ON: THE SUN WILL COME UP. YOUR CARRYALL WILL GO TO WORK. THAT'S RELIABILITY.** [ *ACCORDING TO A RECENT SURVEY OF GOLF COURSE SUPERINTENDENTS, THE CARRYALL BY CLUB CAR® IS THE MOST RELIABLE LIGHTWEIGHT TURF UTILITY VEHICLE ON THE MARKET.\** ] **AND NOW THAT OUR CARRYALL II PLUS HAS A NEW, MORE POWERFUL 11-HP, 4-CYCLE ENGINE, IT CAN ONLY GET BETTER. FOR PERFORMANCE, SERVICE, AND SUPPORT, RELY ON CARRYALL. CALL 1-800-643-1010 AND DRIVE IT TO WORK.**



\*Based on research conducted by the Center for Golf Course Management, a subsidiary of the Golf Course Superintendents Association of America.

CIRCLE #166 / GCSAA BOOTH #2543



## Toro adds 5500 to Multi Pro spray line

The Toro Co. has announced the newest addition to its Multi Pro family of work vehicles with the Multi Pro 5500. This dedicated sprayer literally "breaks through" previous levels of application precision and consistency via an ergonomically-designed cockpit.

For optimum operator comfort and control, the Multi Pro 5500 clusters all sprayer and boom controls directly at the operator's fingertips. Moreover, a master on/off boom switch is foot-controlled to free sight and hands and simplify liquid application. Climbing and maneuverability are enhanced by new hydraulic wheel motors with planetary final drive. The Multi Pro 5500 is also remarkably quiet (83 decibels at operator's ear) due to a 45-

hp engine paired with low-tone muffler with exhaust pipe.

For greater productivity, the sprayer carries an extra large 300-gallon polyethylene tank, elliptical in shape with no corners to trap chemicals. Jet agitation ensures effective mixing of chemicals. Additionally, the sprayer components, plumbing, wiring and switches are built-in on the assembly line. The result is less field assembly time by the local distributor and reduced weather exposure and potential damage to components while in use.

Customers can receive additional information on the Multi Pro 5500 from a local Toro distributor by calling 1-800-803-TORO ext. 116.

CIRCLE #301

## Par Aide offers golfers best seat in the house

How do you combine fine craftsmanship, low maintenance and affordability into attractive seating? Ask the folks at Par Aide. Their new 6-foot course bench answers golf superintendents' requirements for comfortable, durable, affordable seating that looks great on any course.

Steve Garske, president of Par Aide Products, reports this classically-designed bench incorporates the quality and craftsmanship for which Par Aide is known.

Easy to assemble, the frame is stock finished in a powder-coated hunter green. Slats are pre-drilled and avail-

able in a choice of finished oak or fir. A tested, non-tip design assures this lightweight bench will deliver many years of low-maintenance service.

For those who wish to supply their own lumber, an optional frame kit, complete with nuts and bolts, can be ordered.

For more information on Par Aide's new, affordable bench and other quality products, contact Par Aide Products Company at 3565 Hoffman Road East, St. Paul, MN 55110-5376. Or for the name of the nearest Par Aide dealer, call 612-779-9851.

CIRCLE #301

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CIRCLE #168/GCSAA BOOTH #1783



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**Windsor  
Pattern**

**Middle of green**

**Custom Checker  
Pattern**



**Back of green**

**Windsor  
Pattern**

## Solargizer fights battery sulfation

Finally, there is a solution to one of the most frustrating problems of golf car-battery failure. Presenting the Solargizer Battery Maintenance System available from PulseTech Products Corp.

Developed in the Dallas area, Solargizer is the only one of its kind. It is not a battery charger. It is a proven, patented electronic device designed to eliminate the number-one cause of battery problems and failure: Sulfation.

Sulfation is where sulfur molecules in the battery acid crystallize and coat the battery's positive and negative lead plates during energy discharge. The more the plates are coated, the less energy they can accept. Before long they become so coated, they die. To learn more about Solargizer call 1-800-580-7554.

CIRCLE #303

## Tempo now registered for course use

Tempo Insecticide from Bayer Corp., an advanced generation pyrethroid designed to control a broad spectrum of turf and ornamental pests, is now registered for use on golf courses.

This addition expands the product's commercial uses. Tempo was previously registered for use only on residential and commercial sites such as business complexes, airports, parks, athletic fields and other landscape turfgrass.

On golf courses, Tempo can be used as a spray to control surface-feeding insects such as army worms, cutworms, ants, mole crickets, ticks and fleas to name a few. It is also characterized by fast knockdown and long residual control. Tempo for golf course use is a Restricted Use Pesticide.

For more information, contact Bayer at 816-242-2332.

CIRCLE #304

## Portable phone caddie

Joan Peters has invented a holder which allows a cordless telephone user to literally wear the phone in a pouch attached to an adjustable belt—keeping the phone at your fingertips inside or outside.

Because clothes often lack roomy pockets and a belt to put a phone holder on, Tote-A-Phone is designed to hold a cellular telephone or other hand-held communication device. Tote-A-Phone is available by mail order now. Call Peters for more information at 610-287-5179.

CIRCLE #305



## Easy mixing with dri surfactant

Kalo, Inc. has introduced **dri**—a new, dry, white, granular, non-ionic surfactant formulated for the golf course market to replace traditional liquid surfactant products.

The concentrated granular formulation of **dri** can be mixed with insecticides, fungicides, herbicides and growth regulator products to improve plant-protection product performance wherever traditional liquid surfactants are used.

Packaged in pre-measured, easy-to-dispose 3-pound poly bags or 1-ounce packets, **dri** eliminates the measuring and spillage problems. **dri** is formulated with an anti-foam agent, doesn't require heated storage, won't freeze, separate or layer like liquids, dissolves quickly in cold water, and contains no harmful solvents for improved safe handling. Because 100-percent active ingredient **dri** contains no water, it will reduce freight costs by up to 30 percent, and requires 45 percent less storage space than liquid products.

For more information, contact Kalo at 913-491-9125.

CIRCLE #308

## High-pressure water cleaning from Landa

Landa, a manufacturer of pressure washers and water cleaning systems, has introduced a closed-loop, industrial wash-water recycling system for applications where there is a high wash-water volume and heavy dirt load.

The Delta-3000 is Landa's largest, self-contained filtration system, capable of handling flows of up to 30 gallons per minute.

Features of the Delta-3000 include: Landa's specially designed grids of inclined oil coalescing plates for maximum efficiency of oil-water separation; pre-plumbed components for ease of installation; high-efficiency ozonation to control bacteria growth and odors; optional ORP/pH Controller for automatic germicidal and pH control.

For more details, contact Crismon Lewis, 1-800-547-8672, Ext. 175.

CIRCLE #309

## Natural lubricants

New government legislation (Executive Order 12873) has mandated the development and use of environmentally acceptable industrial lubricants. EarthRight Technologies, Inc. has met this challenge, offering an alternative to petroleum-based fluids. Made from natural ester technology (rape seed and sunflower oil), its products meet or exceed the performance levels of petroleum oils.

Call EarthRight 1-800-830-4636 for more information.

CIRCLE #310

## Flowtronex puts SLAP on power surges

Extensive component research, lightning-surge tests of model prototypes. This data and more fueled the creation of a new surge arrester from Flowtronex PSI.

For lightning strikes, power surges or power sags, the engineers and technicians at Flowtronex PSI designed SLAP (Surge Lightning Advance Protection) to take the full brunt of any type of power fluctuation and stop

excess voltage from harming precious pump equipment. The U.L. - approved product provides Category C (primary) and Category B (secondary) level protection. It dissipates power up to 3,720 joules or 82,500,000 volt amps absorbing single pulse peak currents of up to 25,000 amps. The retail price: \$157. For further information, contact Greg Lush at 214-357-1320.

CIRCLE #307

## Jake unveils new breed of triplex

Jacobsen Textron has announced the Greens King V, a new generation of triplex greens mowers. Jacobsen expects superintendents will be drawn by the unit's FlashAttach, which allows reels to be changed in minutes and without tools. Changing from 11-blade to seven-blade reels for tees is as quick and easy as pulling a pin, saving time and increasing productivity.

Quieter operation and improved maneuverability are other goals the Greens King V has met, according to the manu-

facturer. With either the liquid-cooled 19-horsepower Kubota diesel, or the high-output 18-hp Briggs & Stratton Vanguard gas engine providing the power, the single-pedal, hydrostatic speed and forward/reverse control make the mower easier to operate.

Meanwhile, power steering and a rear wheel that turns inside the front wheel's radius make it easier to follow the most difficult curves and contours. More information is available by faxing Jacobsen at 414-637-4465.

CIRCLE #306



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CIRCLE #169/GCSAA BOOTH #3073



## Terra product controls mites, insects in shrubs

Terra International, Inc. has introduced the insecticide Riverside Dormant Oil 415 for mite and insect pest control in shade trees and shrubs. Dormant Oil 415 is a light, low-viscosity crop oil that evaporates quickly, causing minimal plant damage.

Use Dormant Oil 415 as a carrier for *Bacillus thuringiensis* when applied through a mist blower or cold fog machine. For a wider spectrum of pest control use Dormant Oil 415 with Ethion, Supracide or as a spreader/carrier for certain synthetic organic insecticides for pest control in habitable buildings. For more information, contact Terra at 712-277-1340.

CIRCLE #311

## Water filtration at micron-rated levels

ESCO Engineering Corp. has introduced a new device for reliable water filtration and purification tasks at micron-rated levels. Finally, economy performance in a micron-rated filter without disposable media, cartridges, or plugging screens. In a new patented design, the ESCO disk filter offers 5, 10, up to 100 micron continuous filtration in a design that offers automatic "on-line" automatic fluid or gas-assisted backwash. The design employs a uniform pore plastic disk "micro-park" assembly to remove solid or liquid particles from a continuous liquid phase.

Whereas traditional woven or mem-

brane "barrier" cartridge filters, and diatomaceous earth media devices rely on particle loading and expensive disposability to accomplish filtration, the ESCO filter approaches filtration from a permanent, continuous, and simple operating design approach. The ESCO concept represents the first substantial economic design breakthrough approach to filtration in decades. The system can be heat or chemical sterilized and high temperature operation is no problem.

For more information, contact David Halverson at ESCO at 617-828-7340.

CIRCLE #312

## Spraying with 'total droplet control'

A new self-cleaning weed control system developed for safe and accurate spraying and designed to be easily mounted onto a wide range of compact tractors and ATV's has been introduced by Nomix, Inc.

Operated by the driver from a switch on the control box fitted to the front of the vehicle, the Nomix Kerb Spraying Unit (KSU) can be set to spray herbicide continuously along an entire route, or used selectively to treat isolated weeds. The KSU has a rear-mounted lockable metal box containing 5-liter packs of ready-to-use, oil-based herbicide and cleaning fluid.

The new system employs the innovative Total Droplet Control (TDC) technology developed by Nomix-Chipman over a 5-year period. In operation, a precise range of spray droplets is produced by protected sprayer heads attached to a retractable arm, giving an adjustable spray width of between 12 and 18 inches.

Too large to drift to surrounding areas, the evenly-sized droplets hit the target with great precision. Oil in the herbicide helps it cling to the foliage and penetrates the leaf, giving even weed control. After spraying, the driver simply pushes a button on the controls to flush the system with cleaning fluid.

For more information, contact Nomix at 1-800-486-6649.

CIRCLE #313

## Another spike alternative

A new metal retractable spike called Soft Walk performs similarly to the traditional fixed spike on rough terrain. However, Soft Walk spikes take the traditional spike one step further by adding an automatic internal retraction system. On hard-pack surfaces — such as putting greens — the weight of the golfer forces the spike to retract. The Soft Walk retractable spike virtually eliminates spike marks on greens. For more information, contact Soft Walk, Inc. at 6050-B Grissom Parkway, Titusville, Fla., 32778.

CIRCLE #314

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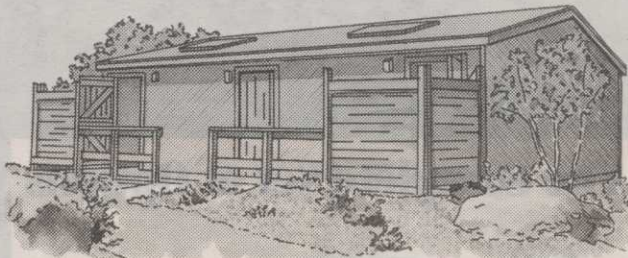
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CIRCLE #173



# Golf Course Marketplace

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## EMPLOYMENT OPPORTUNITIES

### GOLF COURSE SUPERINTENDENT

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### COURSE CONSTRUCTION

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### BUSINESS DEVELOPMENT REPRESENTATIVE

Established, national golf course construction and maintenance company's central Florida branch is seeking a business development representative for its east coast operations. Applicant must have min. 5 yrs. sales experience in the golf industry. Qualified and serious applicants send resume to: C. Faccone, 24121 Ventura Blvd., Calabasas, CA 91302, EOE M/F/D/V.

### SUPERINTENDENT OF GOLF COURSE QUALITY CONTROL

Serviscape Inc., is seeking a Quality Control Manager. The candidate will possess an ability to plan, solve problems, and establish procedures. Excellent communication skills, strong background in turf mgt, technical writing and computer skills degree in turfgrass related discipline. Duties will include assessing, writing, teaching & auditing operational policies and administration of nonoperational functions. Send resume: Peter Sinott, Serviscape, PO Box 8658, Michigan City, IN 46361

### GOLF COURSE CONSTRUCTION

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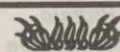
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## CALENDAR

### February

8 — *Northeastern Pennsylvania Turfgrass and Grounds Maintenance School in White Haven, Pa.* Contact Andrew McNitt at 814-863-3475.

10-17 — *Club Managers Association of America World Conference of Private Club Managers in Honolulu.* Contact 703-739-9500.

13-17 — *National Arborists Assn. Annual Management Conference in San Diego.* Contact 800-733-2622.

21 — *GCSAA seminar on Human Resource Management in Gaylord, Mich.\**

22 — *GCSAA seminar on Drainage Systems in Gaylord, Mich.\**

26-Mar. 1 — *University of Wisconsin School of Turfgrass Management in Madison, Wis.* Contact Lee Gottschalk at 608-263-1672.

27 — *GCSAA seminar on Negotiating in Portsmouth, N.H.\**

27-29 — *Western Pennsylvania Turf Conference & Trade Show in Monroeville, Pa.* Contact Thomas Bettel at 814-863-3475.

28 — *GCSAA seminar on Maximizing Turfgrass Disease Control in Suffern, N.Y.\**

### March

2-5 — *Canadian Turfgrass Conference and Trade Show in Vancouver.* Contact Chuck Desveaux at 905-602-8873.

5 — *GCSAA Technician Training Seminar on Calibration and Safety of Pesticide Application Equipment in Indianapolis.\**

5 — *Spring Valley Turf Products Turf Fair in Pewaukee, Wis.* Contact Jordan Sensibar at 800-635-2123.

5 — *GCSAA seminar on Turfgrass Stress Management in Palm Springs, Calif.\**

6 — *GCSAA seminar on Budgeting and Forecasting in Rockport, Maine.\**

7 — *GCSAA Technician Training Seminar on Reel Mowers and Grinding Methods in Farmington, Conn.\**

7-8 — *GCSAA seminar on Basic Turfgrass Botany and Physiology in Farmington, Conn.\**

11 — *GCSAA seminar on Lake and Aquatic Plant Management in Cincinnati.\**

12 — *GCSAA Technician Training Seminar on Reel Grinding and Turf Equipment Maintenance Scheduling in Galena, Ill.\**

12 — *GCSAA Technician Training Seminar on Calibration and Safety of Pesticide Application Equipment in York, Pa.\**

12-13 — *GCSAA seminar on Disease Identification and Control in Philadelphia.\**

14-15 — *GCSAA seminar on Design, Construction and Renovation for IPM.\**

16 — *Ecological Landscaping Association and UMass Extension Winter Conference in Boxborough, Mass.* Contact M.L. Altobelli at 508-874-1373.

19 — *GCSAA Technician Training Seminar on Calibration and Safety of Pesticide Application Equipment in Grand Rapids, Mich.\**

19 — *GCSAA Technician Training Seminar on Small Engine Maintenance and Repair in Woodbridge, Ill.\**

20 — *GCSAA seminar on Practical Tree Management in Buffalo.*

22 — *GCSAA seminar on Wildlife Management and Habitat Conservation in Springfield, Ill.\**

26 — *GCSAA Technician Training Seminar on Calibration and Safety of Pesticide Application Equipment in East Alton, Ill.\**

27-29 — *Western Pennsylvania Turf Conference and Trade Show in Pittsburgh.* Contact Pennsylvania Turfgrass Council at 814-863-3475.

\* For more information contact the GCSAA Education Office at 913-832-4430.

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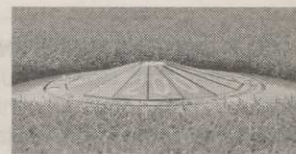
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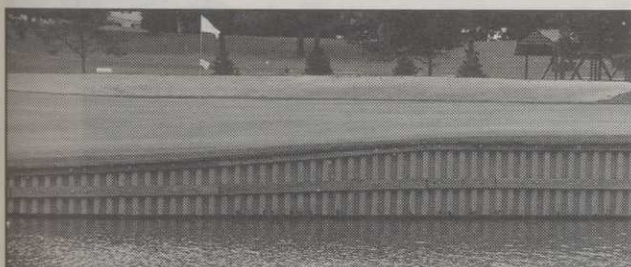
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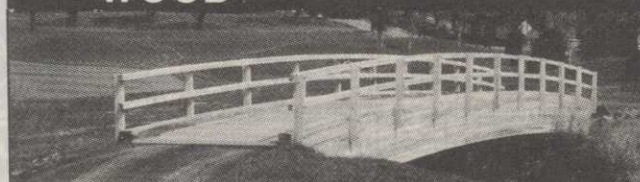
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\*Appears in regional editions.



# Expo changes course



Golf Course Expo '95 attendees (above) work the show floor, while another consults his resource manual during the Management & Marketing Conference (top right). Sharing a laugh are the Designing Dyes — Pete (from left), Perry, P.B. and Alice — who keynoted Day I at the Expo. Robert Dedman Sr., chairman and founder of ClubCorp., keynoted the Expo's Day II.



By HAL PHILLIPS  
Editor

**N**ews Item: *Golf Course News* will move Golf Course Expo '96, our annual conference and trade show, from the Orange County Convention Center in Orlando, Fla., to the Marriott Lincolnshire in suburban Chicago. To be held Oct. 27-29, the conference — "Public Golf for Profit" — will address the educational and buying needs of managers, developers and superintendents at public-access golf facilities.

Why the move? Well, the late

comedian Sam Kinison once offered a pointed piece of advice to East African nomadic tribes whose traditional grazing lands were perpetually threatened by famine. "You live in a desert," he said. "Go where the food is!"

We're taking Mr. Kinison's advice by moving the event to Chicago, where the "food" is.

The move is recognition that it was time to re-examine the number of daily-fee, resort and municipal courses within a 500-mile radius of the Expo. While Orlando enjoys the nation's second-highest concentration of public-



access courses (with 1,213), suburban Chicago boasts the top spot with 3,413 public-access facilities — or three times the number of potential attendees — within the same 500-mile radius.

Indeed, it was also time to recognize that, after two years, we had exhausted the ability of Florida's public-access golf personnel to travel to Orlando. With the superintendents association in Orlando as you read this, it was time to bring the event to a different locale.

In Chicago, we also intend to be more realistic in reemphasizing the educational needs of the public-access owner, developer and superintendent. Though public-access personnel are beginning to realize their considerable

buying power, the sheer size of Orlando's Orange County Convention Center may have diluted the Expo experience. We believe a hotel venue like Lincolnshire will make attendee interaction — at the conference and with exhibitors — more intimate and powerful.

Make no mistake: We remain committed to the growth of public-access golf and to the event that serves its unique needs. Why? Not just because we're stubborn, but because **THIS IS WHERE THE INDUSTRY IS HEADED!**

A few facts that can't be ignored:

- More than 450 courses opened during 1995, 80 percent of them public-access.

- There are more than 15,000 courses in America today, nearly 70 percent of them public-access (the number of private courses is actually shrinking).

- Jack Nicklaus, the king of ultra-expensive private course development, has targeted the public-access market within his own firm (see column page 19).

- Even GCSAA has acknowledged the changing times by advocating its dual-membership requirement (because the great mass of daily-fee superintendents belong to local chapters and not national, GCSAA — an association comprised largely of private course superintendents — has wisely targeted the public-access market as the industry's primary growth area).

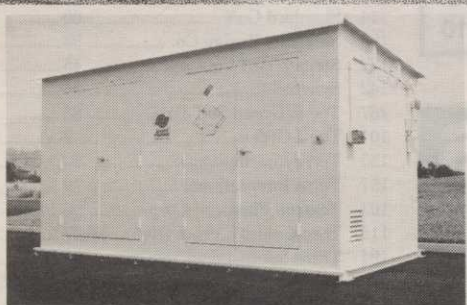
For these reasons and others, we will continue to provide education and buying opportunities for public-access superintendents and managers via Golf Course Expo and its conference, "Public Golf for Profit." In order for the conference and show to succeed, we have taken two necessary steps:

- We've moved the event to a smaller, hotel venue in an area more densely populated with daily-fee golf courses.

- We've changed the event's focus, from a trade show with conferences on the side, to a powerhouse education conference with booths.

Let's face it: Sometimes, in order to move forward, you must take a step back.

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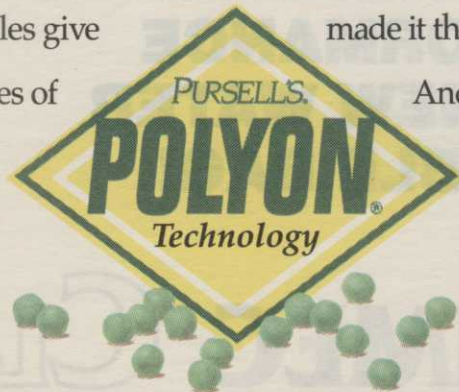
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## "Still looking for the broadleaf weed that Trimec® herbicide can't control."

says Everett Mealman, Chairman, PBI/Gordon Corporation

You get a lot of very useful information — and so do we — at turf trade shows. Thousands of turf managers visit our booth each year. Naturally, they have a wide variety of questions, but they always have a special interest in Trimec.

A typical question is, "Everett, when I compare the labels of three way herbicides and Trimec they look alike, and yet I know from direct experience that Trimec is more dependable. Why is that?"

My answer is, "Take a closer look at the labels . . . they're not alike. Trimec is a *complex*. The others are not . . . they're formulator tank-mixes."

While it's true that you get synergism in a tank-mix, the synergism is enhanced and more uniform when the active ingredients are reacted to form a complex, putting them in a more intimate relationship than that achieved in tank-mixes. It's our technology and our quality control that makes the difference. It takes more time, plus the highest quality technical acids and a great deal more expertise. But we know the turf managers who buy Trimec are just as committed to excellence as we are, so it's worth it.

Right now we're very excited about two new Trimec Classic products — a new "low-odor" solution and a new dry soluble concentrate in a water-soluble bag that has no amine odor. It really put our expertise to the test to develop the liquid low-odor product. Timing is very critical in that process. This product will be offered only in a 14 gallon returnable mini-drum. We want turf managers to have environmentally sound options without sacrificing weed control.

The new patented dry soluble concentrate has this objective as well: weed control for the perfectionist, but without the problems of container disposal.

My first exposure to the perfectionism of successful turf managers came in the late sixties when we were perfecting Trimec technology. We had the patent on combining 2,4-D, MCPP, and dicamba which of course was the original formula for Trimec, and was a dramatic forward step in creating immaculate turf.

In those days golf courses were using agricultural herbicides for post emergence control of broadleaf weeds. They were getting about 70% control, whereas Trimec was close to 100%.

Naturally Trimec had to cost a bit more than the agricultural herbicides, and we wondered if they would spend a little more per gallon for a herbicide that would give them better control and eliminate re-treatments. So we put the question to every superintendent we called on. Leslie Snyder of

Southern Hills in Oklahoma City gave us an answer that was typical.

We asked Mr. Snyder if a few weeds were acceptable to the green committee so long as they were mowed and green, or did they want the superintendent to eliminate all weeds even if it meant re-treatment.

Mr. Snyder answered with a question of his own: "Do you know what they call golf course superintendents who leave a few weeds on the course? They call them unemployed."

Mr. Snyder bought the first gallon

of Trimec we ever sold. He was a perfectionist and so is his successor Bob Randquist, who still uses our Classic.

I think all successful turf managers are perfectionists, and this is especially true of our good friend, George Toma. Certainly his insistence on perfection has been a major factor in his success.



George Toma

We didn't know back in 1972, when George first started using Trimec at the old Kansas City stadium, that he would go on to become the world famous groundskeeper of NFL Super Bowl fame. But we knew he was good

— and he has provided us with valuable advice over the years.

In 1982, we wanted to run an ad with the slogan, "We're still looking for the broadleaf weed that Trimec can't control," so we asked George for his opinion. He told us at that time, "Well if there is I haven't found it."

Since then George and his son, Chip, have helped develop playing fields all over the world. In a recent conversation, George told me, "Hey, Everett, we still haven't found that weed!"

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