

GOLF COURSE NEWS

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PALMER KICKS OFF EXPO

Arnold Palmer addresses attendees at the inaugural Golf Course Expo, which drew 1,500 public-access decision-makers to Orlando, Fla. For a complete rundown on the show and conference, see pages 10 and 62.

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USGA, wildlife groups cooperate on research

By MARK LESLIE

WASHINGTON, D.C. — Extensive research investigating golf courses as ecosystems will be undertaken as early as this fall, thanks to funding from the U.S. Golf Association (USGA) and enthusiastic support from several environmental organizations.

After a meeting here with environmentalists, Ron Dodson, president of the Audubon Society of New York and chairman of the USGA Wildlife Subcommittee, said: "The col-

lective agreement of all those attending was that instead of spending so much time looking at particular species, we should be looking at golf courses as ecosystems.

"And we should focus our attention on ecosystems where there are many golf courses and lots of potential for new courses to be built — like Florida, California, New England and the coastal mid-Atlantic region."

Enthusied by the input

Continued on page 19

Summit illustrates need for image-building PR campaign

By HAL PHILLIPS

SCOTTSDALE, Ariz. — The recent Golf Summit yielded this stark realization: Poor public image stands as the single largest hindrance to golf industry growth.

If image isn't everything, it's darn close. Many still consider golf a pastime of rich, white males. Whether this assessment is less accurate than it was in, say, 1970, is irrelevant. The public at large has this perception, and it's particularly damaging because it adversely affects golf's other two major obstacles: the environment and player development.

This became crystal clear during Golf Summit '94, the two-day strategy session sponsored by the National Golf Foundation (NGF) here in November. In response, Summit attendees agreed that golf

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Joseph Beditz



Pinehurst Plantation is one of the private clubs in the Golf Communities USA portfolio.

Golf Communities USA bucks public trend

By PETER BLAIS

ORLANDO, Fla. — Golf Communities USA President Warren Stanchina has always run against the tide.

When everyone was building private golf course communities in the late 1970s and early 1980s, Stanchina was buying and selling daily-fee facilities. "I usually made money," said the head of the Orlando, Fla.-based firm.

Now it's the 1990s. The consensus is that daily-fee developers are the

king and private course developers the jesters. While some may view Stanchina's recent purchases of several high-profile private course communities as the acts of a fool, he plans on laughing all the way to the bank.

"The United States is fast becoming a two-class country, the rich and the poor," he said. "That's why affordable, private courses will boom in the late 1990s. There are simply too many up-

Continued on page 51

The Ratings Game

What's fair, and has it affected design?

By MARK LESLIE

The good, the bad and the ugly. The dramatic and the costly. The bells and whistles — and foghorns. Golf course rankings have helped create them all.

"We accept some of the credit for elevating standards of golf architecture — which is good for the game and the business — and some of the blame for the escalating costs of architecture and, therefore, golf," said *Golf Digest* rating guru Ron Whitten.

"A lot of courses are built to make a great initial impression," said *Golf* magazine rating coordinator Tom Doak, himself a course architect. "Unfortunately, the surge of popularity of rankings has tended to obscure [the fact that] a golf course is not built so someone goes there once. Does the course have lasting value? Is it going to be better to play the 10th time than the first? Or is it going to get old really fast?"

The consensus is that the mere existence of the *Golf*, *Golf Digest* and other course rankings has meant more competition between architects — and devel-

Continued on page 42

Should
Conditioning
Be Judged? p. 44

Mark Leslie photo

From Tee-2-Green

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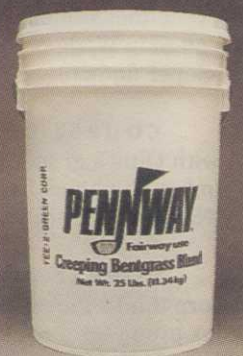
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NEWS IN BRIEF

MIAMI — Golf at sea? Well, Royal Caribbean Cruises says it will unveil a complete (if miniaturized) 18-hole golf course aboard on of its new cruise ships, due to debut in the Caribbean come May. The first-ever course of its kind will reportedly feature sand traps, trees, Scottish heather and, presumably, lots of water hazards. There's no word yet on yardage.

...

MARION, Iowa — A proposed golf course and housing development here would create about \$1 million per year in property taxes and \$500,000 for the Linn-Mar school district. The proposed \$20 million Hunters Ridge project will include a daily-fee, 18-hole golf course along with 278 large lots for upscale homes and 100 townhouse units. The project is being undertaken by a private partnership involving local businessmen Bob and Dave Verhille, Ralph Blackford, and George Powers.

...

LITTLE ROCK, Ark. — Burns Park now has a full, 18-hole golf course to complement another 18. A new nine-hole course, under construction for 30 months, has been added to an existing "short nine" to create a par-71, 6,300-yard layout. In the spring, builders will finish sodding and installing cart paths. The new nine cost about \$200,000 and was funded by the city of North Little Rock and the Burns Park men's golf association.

...

AUSTIN, Texas — The city will spend \$100,000 to study pollution from golf courses. The city has hired Spectrum Research Inc. of Duluth, Minn., to perform the work. The project will include evaluation of city golf course management practices and recommendations to minimize pesticide and fertilizer pollution of waterways on and off the city's six municipal golf courses. Private courses are also likely to participate in the study.



TERRAVITA GC UNVEILED IN THE ARIZONA DESERT

A late-afternoon sun frames the 9th hole at Terravita Golf Course. Opened for play last month in North Scottsdale, Ariz., this Casper/Nash design is the first project of its size to be developed under the City of Scottsdale's Environmentally Sensitive Lands Ordinance governing desert development. Paul Ellwood is the new superintendent and Phil Green the director of golf.

Survey: Safe chemical use a public concern

There's no question in the minds of consumers about the benefits of specialty pesticides, but there are concerns about their responsible use, according to results of a public opinion survey commissioned by RISE (Responsible Industry for a Sound Environment).

The study — conducted by Charlton Research Co. of San Francisco — assessed public attitudes toward the value and risk of specialty pesticides and was conducted among the general public, rather than consumers who specifically purchase and use pesticides.

The Charlton survey consisted of both qualitative and quantitative research. Eight focus groups were conducted at four different locations: Pittsburgh, Seattle, Milwaukee and

Half those surveyed believe pesticides available to the public are thoroughly tested; the other half aren't so sure.

Birmingham. Each group comprised adults of mixed age, gender, area of residence and education. Each discussion lasted 90 minutes to two hours.

Quantitative research included a telephone survey of 1,000 adults, 18 years and older, and consisted of 83 questions. Each phone interview lasted approximately 22 minutes.

Key findings showed:

- Many Americans clearly see the benefits of pesticides and are willing to

balance their personal and environmental health and safety concerns with these perceived benefits.

- The most trusted sources of information on pesticides are local government agencies: extension services, poison control centers and departments of health.

- Professional applicators are thought to be safer with the pesticides they apply, even though they are thought to use stronger pesticides than homeowners.

- The majority of people use some form of pesticides, with controlling household insects/rodents ranking first with 64 percent. Garden care/outdoor insect control ranked second with 48 percent, while lawn care ranked third with 38 percent. One in 10 respondents

Continued on page 21

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Developers retain hope for San Diego golf projects

SAN DIEGO, Calif. — Last summer's defeat of a ballot proposal to develop 12,000 acres on the city's northern fringe seemed to dash any near-term hopes of fashioning a new urban community that was scheduled to include two championship golf courses. But developers haven't given up hope for some sort of golf development farther down the road.

Landowners spent nearly \$2 million to try to convince voters to approve Proposition C, a move that would have eased the way for development on 12,270 acres of

rolling hills, canyons, grazing land and farmland long held in reserve for future development. The site is known as the North City Urban Reserve.

Under a 1985 managed-growth initiative, citywide voter approval is required before most development can occur in the area. The reserve is one of the last chunks of undeveloped land in San Diego.

Doing their best to recover from the ballot defeat, developers and landowners are busy trying to draft new plans or resurrect old ones in an effort to salvage

some kind of development.

The single largest property owner in the reserve, Potomac Investment Associates, is reworking an already-approved development plan in an effort to reduce its costs for roads and utilities. Part of that plan calls for two championship golf courses. At least one of the golf courses is scheduled to be ready for play in 1998.

An 18-hole golf course and 160-room resort hotel are also part of development plans for a Phoenix-based developer with 350 acres in the reserve.

EPA EXPANDS LAWSUIT OVER WETLANDS DAMAGE IN COLO.

TELLURIDE, Colo. — A lawsuit against Telluride Ski Co. for allegedly damaging wetlands during construction of its village and golf course has been expanded. The amended complaint by the Environmental Protection Agency filed in U.S. District Court claims the company illegally put dredged or fill materials on 58 acres of wetlands. Telluride spokesman Mike Shimi-Konis said the EPA's latest filing is an attempt to expand the number of acres in the dispute and is "misguided."

Calif. man arrested in extortion plot to acquire golf course

BOWMAN, Calif. — Steven Mark Mabbett of Colfax was arrested by Placer County officials after a failed extortion plot to take possession of the Black Oak Golf Course.

Mabbett, 47, was arrested on suspicion of attempted extortion and remains in Placer County Jail in lieu of \$10,000 bail.

Mabbett, a former employee at Black Oak who was laid off, had allegedly sent a series of threatening letters to Gordon Morrice, the owner of Black Oak Golf Course, in late September 1994. Mabbett threatened to tell federal tax authorities that Morrice supposedly had not reported a large amount of income. Mabbett eventually sent Morrice a letter demanding that Morrice sell him the golf course for \$1 million with no money down and no interest.

Morrice went to authorities to tell them about Mabbett's threats. Morrice then wore a hidden microphone on loan from the Department of Justice to record several meetings with Mabbett. Mabbett was finally arrested during a meeting with Morrice at a Denny's restaurant. Morrice has denied any financial wrongdoing at the course.

Late payments may cost town its facility

ARVIN, Calif. — A lawsuit has been filed against the city of Arvin for failing to make payments on certificates of participation issued to finance the town's \$8 million Sycamore Canyon Golf Course.

State Street Bank is seeking ownership of the course and compensation for lost interest payments on the 18-hole development.

Financed over a 20-year period, the city's final price tag for the course could exceed \$28 million. So far, Arvin has defaulted on between \$650,000 and \$1.2 million in payments. The city has been in default on payments since August 1992.

**REMEMBER WHAT
MORNINGS WERE LIKE
BEFORE SUBDUE?**

Condensed golf course could help speed play

MURRIETA, Calif. — It was only a matter of time. Norm Achen of Temecula and a group of investors are looking into a brave new style of golf experience that would reduce the amount of time it takes to play a round in half and cut the price of greens fees.

Achen envisions a compressed golf "course" where players would hit their drives and successive shots from a series of hitting stations that would have a ratings system to evaluate the shots. Under Achen's plan there would be no strolling down the fairway between shots to find one's ball.

Achen and his investors are hoping to build

the condensed "course" on a barren 33-acre site in Murrieta. He said he is confident he could charge lower greens fees because the maintenance costs for a 33-acre site would be far less than those for a 150 to 200-acre site common to standard golf courses across the country. Achen estimates construction costs at \$2 million.

If the concept proves successful, Achen and his investors, who have incorporated as Duplicate Golf Inc., will try to market the idea in golf franchises internationally, particularly in countries like Japan, where golf is extremely popular but land is very expensive.

Palm Springs to add layout

PALM SPRINGS, Calif. — The City Council is considering a proposal to build a 27-hole golf course resort designed by Byron Nelson's architectural firm.

The Palm Springs Classic resort, which would include a 400-room hotel, up to 500 vacation ownership units, and 30 acres of offices for research and development, retail, and light industrial business, is awaiting approval of a final environmental impact report, a general plan amendment, a preliminary planned develop-

ment design plan, and grading plans.

The proposed builder is D.T. Palm Springs Inter-Continental Golf Center Enterprises.

The council is also considering a request for a conditional-use permit for a night-lighted golf driving range in Palm Springs separate from the resort and the possibility of shifting \$1.2 million from the city's wastewater treatment plant fund to an expansion project at the municipal golf course.

Gen'l Dynamics breaks ground on Palmer track

RANCHO CUCAMONGA, Calif. — Ground has been broken for an 18-hole public golf course designed by Arnold Palmer on land adjoining the closed General Dynamics missile plant.

The course is part of the Empire Lakes development. The defense contractor will spend \$10 to \$15 million on the course.

Although General Dynamics owns the property that includes several large industrial and office buildings, the defense company will be responsible only for the development of the golf course. The company is seeking other firms to develop the remaining facilities.

The course is expected to open by December and will feature a Palmer Golf Academy. There are also proposals to develop a hotel/conference center.

Calif. officials reject polluted course location

FRESNO, Calif. — Contamination problems at the site proposed for the new Airways Golf Course have prompted city officials to abandon those plans in favor of renovating the existing golf course.

The state Department of Health Services found groundwater contamination from cleaning solvents dumped at the Fresno Air Terminal site many years ago.

City officials said the contamination probably dates back to World War II when the area was Hammer Field air base.

Terry Cooper, a city transportation director and Fresno airport's manager, said the airport has been proposed for the state's Superfund list.

The recent contamination problems are the latest blow to the course's fading hopes.

Since at least 1989, plans have called for a new \$4 million course. The course was supposed to open in 1991.

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Opponents try to nix Tenn. course funding

KNOXVILLE, Tenn. — A group of concerned citizens is trying to legally block city officials in Oak Ridge from selling capital outlay notes to finance a \$5.5 million golf course/residential development.

Seven Oak Ridge citizens have filed a legal brief with the Tennessee Court of Appeals asking the court to reverse a lower court decision against them. The citizens claim the city's plan to finance the public golf course with \$6.2 million in capital outlay notes violates a section of the Tennessee Constitution. They say selling notes to further the city's obligations under the Master Development Agreement with Cowperwood Co. "constitutes a lending of credit or in aid of a private corporation."

The citizens first sued the city on April 6, 1994, the day before the city was scheduled to sell the notes to finance the \$5.5 million golf course. The citizens maintain the city must hold a referendum on the note sale, an idea which the City Council defeated in a 4-3 vote in March.

The city claims public financing of the golf course does not constitute the lending of the city's credit to Cowperwood, a position which was upheld by a lower court in April.

The golf course is the centerpiece of a complex series of agreements between the city and Cowperwood concerning the development of the 541-acre, city-owned property. The agreement also involves expanded golf facilities and development of up to 1,300 residential units on the site.

Vandals cause \$10,000 damage to Ga. golf facility

WOODSTOCK, Ga. — Seven juveniles caused so much damage to an 18-hole golf course under construction in Towne Lake that investigators called in a helicopter to photograph it all.

Cherokee County Sheriff's deputies arrested four boys and three girls - all 15 and 16 years old - after getting a call from the grounds crew chief at the new Towne Lake Hills West course.

Damage was estimated at \$10,000. The damage included greens gouged with symbols, names and profanity and what one deputy called "satanic symbols." The youths also drove a pick-up truck onto the course.

The seven youths were charged with criminal damage to property and truancy.

AGC HAS \$250,000 IMPROVEMENT PLAN FOR GEORGIA LINKS

AUGUSTA, Ga. — The Goshen Plantation Golf Club has been bought by American Golf Corp. Santa Monica, Calif.-based American Golf declined to disclose the purchase price but said it plans to make more than \$250,000 in improvements at the course within a year. AGC is Goshen's fifth owner. Improvements planned for the course include complete renovation of the course's irrigation system, an upgrade of the clubhouse and driving range, new golf carts, design and construction of a new club entryway and upgrading of the parking lot. The course will remain semi-private.

US Homes to complete S'West Fla. layout

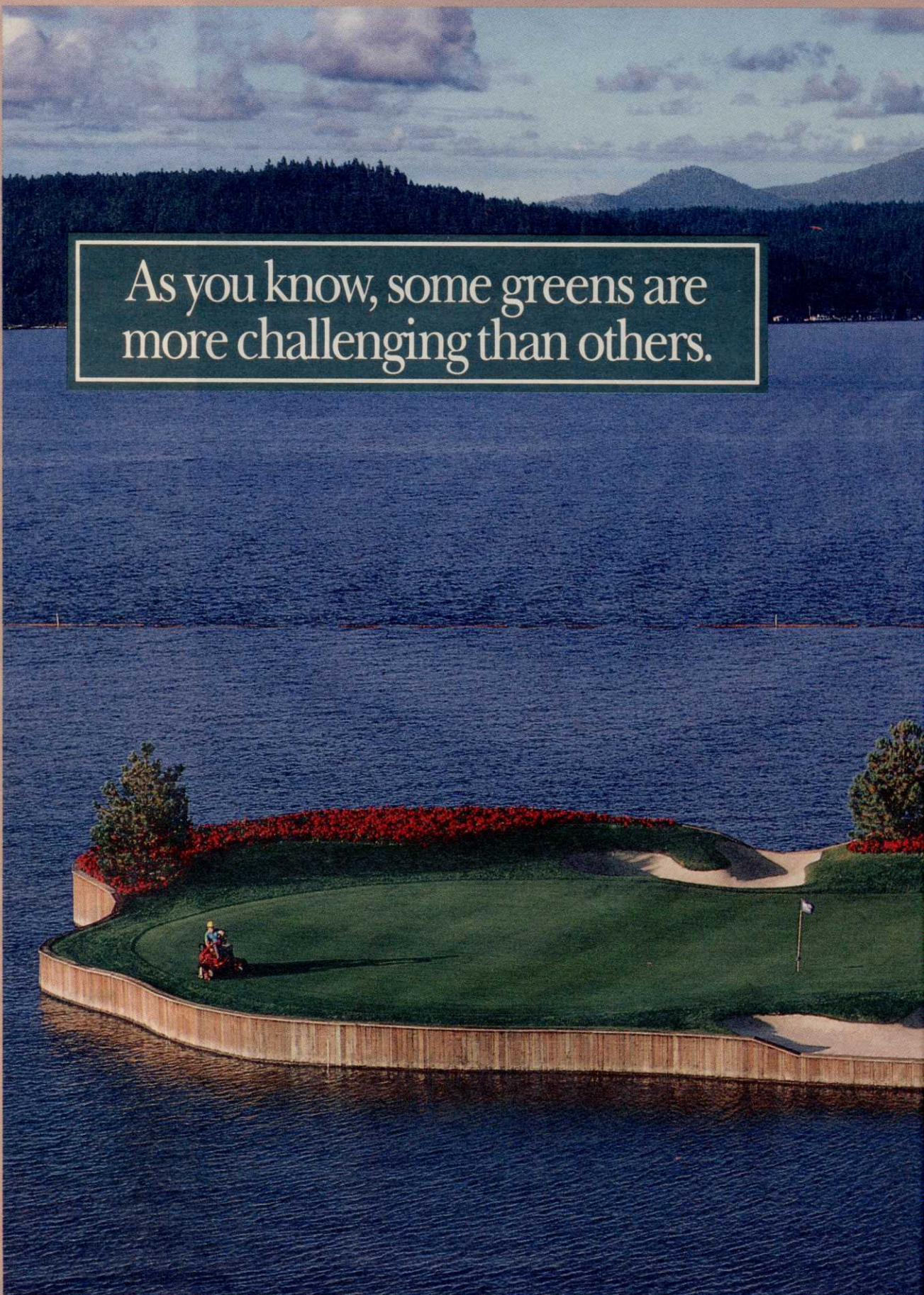
LEE COUNTY, Fla. — With U.S. Home's nurturing, the once-troubled Villages at Country Creek on Corkscrew Road in south Lee County is now blooming.

Earlier in 1994, U.S. Home, the nation's fifth largest builder, agreed to develop the failed 283-acre golf course community north of Bonita Springs from a subsidiary of General Electric Capital Corp. Since then, U.S. Home has spent \$3 million upgrading and beautifying the property, according to Tony Persichelli, division vice president of U.S. Home.

The community originally was started by a

Northern developer who was unable to complete the project for lack of money and local interest. Other communities U.S. Home has developed in Lee County include Kelly Greens, Whiskey Creek, Brookshire and Cross Creek.

U.S. Home has sunk a little more than \$2 million into renovations at the 18-hole golf course and lake. A 12,500-square-foot clubhouse has also been refurbished and redecorated. As of February 1994, about 274 residents were living in the Villages. U.S. Home's goal is to have about 700 more residents move in over the next four years.



As you know, some greens are more challenging than others.

Voters to reconsider upgrade of Mass. layout

DUXBURY, Mass. — Town officials are seeking citizen approval for a \$1.5 million project to add nine holes and make improvements to the already existing North Hill golf course.

The proposal, which is scheduled to go before voters at a town meeting in March, is scaled down from the plan residents rejected last year.

The original proposal called for a \$3 million project that included a completely redesigned 18-hole golf course with a new entrance. The new version calls for spending about \$1.5 million to add nine new holes, improve the existing nine, build a clubhouse, add an additional en-

trance off Route 3A and possibly adding a driving range. The plan calls for doubling the amount of town-owned land dedicated to golf from 75 to 150 of North Hill's 337 acres.

Under the terms of a management agreement, the course provides the town with about \$60,000 in annual income. Expanding the course to 18 holes could more than double the amount, according to Selectman Friend Weiler.

The new plan calls for siting the new nine southeast of the existing course, which would not infringe on the possible habitat of an endangered species of turtle.

Maine track to expand to 18 holes

SCARBOROUGH, Maine — A 6,500-yard, par-71 public golf course geared to the "average golfer" has been proposed on a 300-acre site adjacent to the Maine Turnpike, near a major shopping area here on the outskirts of Portland, the state's largest city.

Daniel Hourihan, executive vice president of First Atlantic Corp., and his partner, Ron Coffin, plan to build the course — to be called the Atlantic Golf Club — on a site that now accommo-

dates a small, 9-hole golf course. The golf club will feature a 300-yard long, 150-yard wide driving range in the middle of the course.

Hourihan says the proposed \$2.5 million project will be set up with relatively generous fairways and gently sloped greens to promote faster play and fewer lost balls. Hourihan has hired Craig "Rip" Jones, a Falmouth-based consultant and former executive vice-president for Gary Player Co., to design the course.

Conn. muni faces local tax dilemma

FAIRFIELD, Conn. — Bridgeport officials have been warned that if they hire a private management firm to run a new 36-hole complex they could face higher taxes.

Course officials are reviewing three proposals submitted to manage city-owned Fairchild Wheeler Golf Course. Selectman Paul Audley said hiring a private management firm would change the complex's tax status and subject it to new taxes.

Audley said the facility has the option of applying for "open space" classification, which would result in \$43,500 in taxes. The standard rate would result in \$195,000 in taxes. Bridgeport officials believe the management contract could save \$600,000 in annual maintenance.

Scarsdale considers new driving range

SCARSDALE, N.Y. — County officials are weighing the impact of a proposed \$4 million aquatic recreation area and lighted year-round driving range at Saxon Woods Golf Course.

The county has proposed a 72-stall facility built and run by a private company at no cost to the county. The range and park would be located in a 700-acre park straddling several communities.

Many golfers have welcomed the idea, but some neighbors have objected to it, particularly the proposed night lighting.

VOTERS REJECTION OF CASINO GAMBLING KILLS R.I. COURSE PLAN

COVENTRY, R.I. — Voters' rejection of casino gambling here nixed plans to convert a 200-acre sand and gravel pit into a \$200 million gaming area and golf course. Nicholas E. Cambio, who faces criminal charges stemming from the widespread New England banking collapse, had said he and his partners would like to sell the pit to a casino and resort developer. The site is near the proposed Narragansett Indian casino in West Greenwich.

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14th green, The Coeur d'Alene Resort Golf Course, Coeur d'Alene, Idaho.

Opposing groups find forum at Ill. ceremony

NEW LENOX, Ill. — There were two distinctly different ceremonies taking place simultaneously at the recent groundbreaking for the New Lenox Park District golf course.

The first ceremony involved men wearing suits and ties, holding polished spades and golf clubs. The second included people wearing flannel and jeans.

The first group - mainly New Lenox officials and developers - had gathered to commemorate the groundbreaking for the new New Lenox course. Native Americans, their supporters and the curious made up the second

group. Their ceremony commemorated the site where the remains of three Native Americans were found last year. Since May, members of the Native American group "AIM" stood on honor guard at the burial site. Police were at the site for groundbreaking ceremonies but no incidents occurred between the two groups.

The golf course is due to open in June 1996. Park district officials have redesigned the course to allow the burial site to remain unmolested and park officials are negotiating the future of other land where the remains of Native American log lodges were discovered.

Wis. track moves nearer reality

SUN PRAIRIE, Wis. — Madison planners are making progress with plans to develop an 18-hole golf course that would be shared with Sun Prairie, a small city just northeast of the capitol city.

In what is seen as a strong start, they gained recent approval to buy the first of six key parcels of land intended for the 251-acre course.

But observers say that planners must maintain a steady pace in buying the remaining five parcels in order to stay within a \$3

million budget for land acquisition. The ability to buy those parcels quickly depends on approval from three public agencies interested in funding the project, according to Si Widstrand, planning supervisor for Madison parks.

Planners have been working since 1991 on the golf course, which would preserve green space between Madison and Sun Prairie off Route 151. Widstrand said city officials hope they can start construction of the golf course by 1999.

Madison officials expect to contribute \$1 million to purchase land while Sun Prairie is offering about \$500,000. The state's Department of Natural Resources expects to provide \$1.5 million in matching grants.

Madison officials are prepared to run the golf course. They have been managing courses since 1927 and operate four layouts that recently began turning a profit.

Ill. city seeks course builder

CAHOKIA, Ill. — Opponents of a proposed municipal course are questioning the propriety of a developer already being lined up to build the course without making a competitive bid.

Voters will consider whether the village should issue \$5 million in revenue bonds to have a public course built. Mayor Mike King says the village will seek competitive bids if it has to and that the taxing district will protect taxpayers in case the golf course fails to pay for itself.

Golf course backer Dick Gundlach, owner of Fairway Golf Development Corp., wants to build the golf course if the bond referendum passes. But several opponents of the course are questioning whether Gundlach, who apparently has never built a golf course, should get the proposed \$5 million job.

Facelift planned for Indy layouts

INDIANAPOLIS — Renovations to four public courses are a central part of an ambitious plan to create a 976-acre regional park along the White River.

Renovations to the existing Riverside Golf Course and the South Grove Golf Course and a redesign at the Coffin Golf Course are part of an \$18 million plan to expand Riverside Park.

Reconstruction of the Coffin Golf Course is ongoing and bids are out for remodeling work at Riverside and South Grove golf courses. In addition, a family golf academy is under construction at the city's former tree nursery. The project will be financed with private and public money.

GOLF COURSE NEWS



You're Looking at a Product That Will Replace the Golf Tee!

Dirty clubs are a part of golf. But, cleaning clubs with a tee is fast becoming a thing of the past.

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CIRCLE #106



River Oaks ponders new nine

COTTAGE GROVE, Minn. — Officials in this city just south-east of St. Paul are considering a nine-hole expansion to the current 18-hole River Oaks Municipal Golf Course.

They're also considering adding a new dining room to the existing clubhouse.

River Oaks, which opened almost three years ago, is the only publicly owned and operated golf course in Washington County.

Approximately 42,000 rounds of golf were played at the course

last summer and manager Bruce Anderson estimated that the club made a profit of approximately \$30,000.

A consultant earlier this year predicted that a proposed 18-hole municipal golf course and driving range in Woodbury would reap the city estimated annual profits of at least \$300,000 over the next 20 years.

There are also plans in Oakdale for an 18-hole course under a private-public arrangement.

City to fund infrastructure for golf course

HIGHLAND HEIGHTS, Ohio — A residential/golf course development project almost nine years in the making appears to be inching closer to reality.

A major obstacle had been questions about drainage and roadways. The city will issue bonds that will be repaid from fees charged at the public course. No city money will be used.

The land is owned by Miner Properties Inc., and Aberdeen Limited Liability Corp. is the developer. Plans call for 100 to 800 single housing units in the \$250,000 to \$300,000 range and an 18-hole golf course on 480 acres.

Oklahoma links finally opens

MCALISTER, Okla. — The 18-hole Thundercreek Golf Course, the town's first municipal layout, recently opened.

The course was built in just over two years. Energy Construction Specialists and Chambers Construction handled much of the work. The irrigation system was done in-house. The course architect was Randy Heckenhamper.

Financing came from a 1992 proposition that received overwhelming voter approval and allowed the course to issue \$3 million of bonds.

June unveiling set for NC track

MEBANE, N.C. — An 18-hole golf course that is part of the 665-acre Club at Mill Creek is being seeded and workers are laying sod around the greens in anticipation of a June 1 opening.

The course will be semiprivate. First Oakland Properties of Raleigh, which is handling the golf course development, expanded the course acreage slightly to avoid wetland areas and agreed to monitor the site for any contamination of water due to chemicals.

GOLF COURSE NEWS

Minn. developers threaten countersuit

BIWABIK, Minn. — Two groups opposing development of an 18-hole golf course at Giants Ridge Recreational Area have filed an appeal to stop or at least delay construction.

But the Iron Range Resources and Rehabilitation Board, which oversees the site, has said that if construction is delayed by a legal injunction, it will ask that a \$1 million bond be posted against the environmental groups.

The Iron Rangers for Responsible Ridge Action (IRRRA) and the Minnesota Center for Environmental Advocacy are seeking to delay any construction until further environmental

studies can be completed. They are upset with a decision of the St. Louis County Planning and Zoning Commission which stated that construction at the site, which includes hills, lakes, streams and heavy forest, could begin without a full-blown Environmental Impact Study.

IRRRB has maintained that a series of agency-paid environmental studies are sufficient. Those studies found that the golf course would not have a significant environmental effect. A \$4.8 million contract to build the golf course already has been issued to Park Construction of Minneapolis.

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95 US OPEN...FREE



That's right! Go to the US Open at Shinnecock Hills, Southampton, New York, June 15-18, 1995...

Courtesy of Lofts Seed.

Here's all you have to do. It's as simple as A, B, C.



Correctly identify the Lofts' varieties described in the following statements. Choose your answers from the "answer box" below and fill in the six blanks. Checking our ads in some of the professional publications you read will help! The first 250 entries with the six blanks completed correctly will receive a sleeve of three Titleist golf balls.

1 This variety of grass, developed by Dr. Richard Hurley, is played and putted on each winter and spring at many famous professional tournament sites throughout the Southern U.S. When winter overseeding dormant Bermudagrass, use it either alone, with a chewing fescue, with a creeping bentgrass or to enhance the performance of perennial ryegrasses in creating smoother spring transitions.

2 It's a relatively new creeping bentgrass variety that's gaining popularity. Its performance is so successful that many new courses are being seeded with this variety. At Shinnecock Hills Golf Course it has

been used to interseed the greens in preparation for the 1995 US Open while Congressional Country Club is preparing for the '95 Senior US Open by overseeding their fairways with this new bentgrass.

3 Many famous Scottish golf courses have natural populations of this type of grass. U.S. courses now use this species to create the "Scottish links" look. Name this most popular variety developed by Dr. Skogley at the University of Rhode Island.

4 This is a cool season grass that satisfies some environmental concerns since it requires almost no fertilization or mowing and contains endophytes for natural control

of insects. This grass creates a very attractive, natural look for out-of-play roughs or wherever a low-maintenance grass is desired.

5 What turf-type perennial ryegrass is named after the "King" of all professional golfers and is used as a fairway grass on many of "the highest-rated golf courses in the world"?

6 Named after a famous professional golfer, this new "heat-tolerant" creeping bentgrass was developed by Drs. Engelke and Lehman at Texas A&M. The Atlanta Athletic Club is in the process of renovating all 18 greens and seeding with _____ in order to maintain the high standards members have come to expect.

ANSWER BOX

Reliant Hard Fescue
Laser Poa trivialis
Southshore Creeping Bentgrass
Pinto Wildflower Mix
Crenshaw Creeping Bentgrass

Rebel 3D Tall Fescue
Nassau Kentucky Bluegrass
Jamestown II Chewing Fescue
Palmer II Perennial Ryegrass
Repell II Perennial Ryegrass
Sally Alkaligrass

Prelude II Perennial Ryegrass
Azure Sheep Fescue
Baron Kentucky Bluegrass
Yorktown III Perennial Ryegrass
Preakness Kentucky Bluegrass

Of these Lofts' varieties, choose the six that correctly answer questions 1-6 above.



Now, a correct answer to the following question qualifies you for the grand prize — the all-expense-paid trip to the US Open, June 1995. In the event of ties (all seven questions answered correctly), a winner will be selected by a random drawing.

Which professional golfer won the Vardon Trophy twice in his tour career and finished second behind Jack Nicklaus in four major championships?
☐ Chi Chi Rodriguez ☐ Bruce Crampton ☐ Tom Weiskopf



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CIRCLE #107



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I agree to have my name, golf course and photo used for publicity purposes.

Signature _____

Entries must be postmarked by April 15, 1995. In event of ties, a random drawing will be held May 1, 1995 and the grand prize winner will be notified by mail by May 10, 1995. This advertisement may be copied in the event more than one individual wants to enter. Contest limited to persons employed as turfgrass professionals in the golf course, sod, lawn or landscape industries. One entry per person. Grand prize will include airfare (coach) for two with a voucher for 3-day car rental*, accommodations for two persons (3 nights), 2 tickets to '95 US Open and \$300.00 spending money. Contest open to residents of continental US and Canada. Employees of Lofts Seed and their families, or employees and their families of any affiliate, subsidiary or distributor are ineligible. All entries become the property of Lofts Seed Inc. * Or mileage allowance in the event air travel is inappropriate. (\$.30/mile to a maximum allowance of \$300.00)

And while I'm on the subject...

Of course, we're biased. But it's hard to imagine the Golf Course Superintendents Association of America choosing two more deserving recipients than Tim Hiers and Dr. Michael Hurdzan for its President's and Distinguished Service awards, respectively.

Both gentlemen serve on the *Golf Course News* Editorial Advisory Board, and they serve it extremely well. When it comes to reporting on issues that affect superintendents, the staff here simply could not do without their knowledge, enthusiasm and perspective. Please take time to read Mark Leslie's stories on Tim, the superintendent at Collier's Reserve in Naples, Fla. (page 28), and Dr. Mike, the Columbus, Ohio-based superintendent-turned-architect whose star is definitely on the rise (page 30).

And while I'm on the subject, this month's Q&A features Hurdzan's mentor, Jack Kidwell, who has done just about everything there is to do in the golf business. In addition to designing, maintaining and managing courses in his native Ohio, Kidwell played a fair game of golf in his day. In fact, during his high school years, he competed on more than one occasion against a fellow future architect from Urbana. Some guy named Dye...

And while I'm on the subject, the Kidwell Q&A was conducted by the newest member of our editorial staff, Editorial Assistant J. Barry Mothes, who comes to *GCN* after a tenure at the Portland (Maine) *Press-Herald*. Barry further qualified himself for the job by working this summer on the maintenance crew at Portland Country Club under Superintendent Pat Lewis. In between cup replacements and *GCN* assignments, Barry continues to work on an authorized history of Portland CC, a venerable Donald Ross design at the head of Casco Bay.

And while I'm on the subject (geez, this column is all over the board!), congratulations to Jim Hodge, who succeeds Lewis as president of the Maine Golf Course Superintendents Association. Pat has served the association well and I'm sure Mr. Hodge — who toils at Valhalla Golf Course in Cumberland — will follow suit.

...

A little birdie has informed me (as one informed him) that National Audubon Society President Peter Berle will step down early this year. Wouldn't it be great if the ubiquitous Ron Dodson, president of N.Y. Audubon and golf course bird sanctuary promoter, were considered for the nation's top aviary post?

"No chance in the world," laughed Dodson. "My job is national enough. If it were any *more* national, my wife would toss me out."

Indeed, I was amazed to actually catch the globetrotting

Continued on page 52



Hal Phillips,
editor

Expo illustrates the need to exchange information

Sharing information. That is one basic, bottom, operative line for the golf industry in the 1990s.

As epitomized at Golf Course Expo in Orlando, sharing information is lifeblood to the body of the golf course superintendents' profession as well as managers and developers — a major change from decades ago when useful, helpful, innovative methods were held close to the vest and kept as secrets to take to the grave.

"What I have seen is, the superintendents' associations have moved from being social organizations to truly one of the most professional anywhere....," said former superintendent Mike Hurdzan, now a golf course architect. "Look at the breadth of services the GCSAA [Golf Course Superintendents Association of America] offers its members, and the professional development it offers, and the support it has. No longer are they trying to hide ideas. They try to share them. In the '50s guys wouldn't tell one another how they did something. Now they share equipment and manpower, if necessary, to help someone out."

And so it was a pleasure for *Golf Course News* to introduce Golf Course Expo, the first conference and trade show to share information specifically geared to public-access facilities. Maintenance, Development, and Management and Marketing educational tracks ruled the days, following keynote addresses

from Arnold Palmer and Robert Trent Jones II.

Here are a few samplers to whet your appetite — and remind you to mark your calendar — for this year's show, Nov. 9-10 in Orlando:

- From U.S. Golf Association (USGA) Green Section Southeast Region Director Pat O'Brien: Contour mow fairways; reduce mowing acreage such as around tees, out-of-play areas and pond banks; and equip

maintenance staff with two-way radios.

- Doral Golf Resort Director of Golf Course Maintenance and Grounds Patrick McHugh shared the 10 Commandments of Successful Human Relations: re-acquire the arts of kindness

and persuasion; put consideration of human dignity higher than pay, promotion, or working conditions; keep circulating to be seen as well as heard from; get rid of double standards of behavior; preface a request to subordinates with "please"; don't take yourself too seriously; praise fearlessly, giving credit where it is due; don't be afraid to make changes; in handling grievances, let the employee tell his full story without interruption, remembering a kind word will help; and learn to listen.

- From superintendent Don Tolson of Fox Hollow at Lakewood in Lakewood, Colo.: Encourage wearing of soft spikes, and test irrigation water to determine if it could be harmful.

- Joel Jackson, editor of

Continued on page 62



Mark Leslie,
managing editor

Letters

ROOT ZONE ADDENDUM: COST AND 'PERFECTION'

To the editor:

Thanks for the opportunity to express some of my thoughts. In your November issue, regarding the industry's problems concerning root-zone mixes [see related letter on opposite page]:

Because of the important issue of cost, I would like to clarify our company's quality control testing fees. The blending companies I work with charge for the mechanical portion of the work. Our company supervises the production of the mix and assumes the liability of producing mixes as designed. *Together*, our pricing is competitive with others in the blending business.

It should be pointed out that all mixes are *perfect* until they are confirmed as meeting the original design specifications by a competent soil laboratory. If a mix is not checked by someone who knows what they're doing, it's a *perfect* mix.

Only after it's checked will you know whether the mix is subpar.

Glen Watkins

Root Zone Mix

Mule Shoe, Texas

PLAYER CLARIFIES DESIGN

To the editor:

I read the November issue of *Golf Course News* today. In this issue, *GCN* has an article concerning the acquisition of Cutter Sound Golf & Yacht Club in Martin County, Fla. ("Golf Communities adds Fla. track," page 43).

The article incorrectly states that this is a "Gary Player-designed championship course."

We terminated our agreement with the developer of this course approximately 50 percent through the construction phase. Our settlement with the developer expressly prohibits the use of Gary Player's name in conjunction with this golf course. The course was not substantially built to the plans and specifications, and we therefore withdrew.

We would appreciate an appropriate retraction at your earliest convenience. We also realize that this is not particularly the fault of *Golf Course News* and are not criticizing your efforts, only trying to set the record straight.

Thanks for producing such a fine industry trade journal.

Jim Applegate, president

Gary Player Design Co.
Palm Beach Gardens, Fla.

GIVING CREDIT WHERE DUE

To the editor:

I would like to clarify several inaccuracies in your October 1994 article relative to the Atlantic Country Club opening in Plymouth, Mass. ("Massachusetts course opens first nine," page 4).

The present owners purchased at auction a nearly complete golf course designed by Richard and Associates that was named Head of the Bay Country Club. Construction of the golf course began in May of 1991.

I find it preposterous that full

design credit is being assigned to Mark Mungeam [of Uxbridge, Mass.-based Cornish and Silva, Inc.] after some minor tee and green enhancements to this golf course. Richards and Associates spent two years laying out and supervising construction on this exciting golf course during some difficult times.

To deny us credit where due is inaccurate reporting.

Ray Richard

Richard and Associates
Sagamore Beach, Mass.

Ed. While it was never our intention to "deny" Mr. Richard credit, Golf Course News apologizes for the error. A great deal of the design and construction work was performed by Richard and Associates before sale of the course. Mr. Mungeam indicated his firm considers Atlantic (the former Head of the Bay) "a remodel," not a Cornish and Silva design. However, according to Mr. Mungeam, "We did do a major amount of work out there. All the tees, six of 18 greens and significant grading."

GOLF COURSE NEWS

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For turf's sake, don't take peat for granted

By TOM LEVAR

The constructed soil in sports turf root zones is the foundation of your golf course.

It is easily and often taken for granted once it is placed and covered with turf. Yet your continued success is largely linked to root-zone management, including construction. When root-zone conditions are optimized and sustained, you are also able to establish and sustain healthy, playable turf. This goal is best achieved through the proper use of peat in the root zone; and the bonus is water and nutrient conservation.

No other organic material is as effective as peat in constructed soils for maintaining healthy turf. Our organic options are ever increasing, but peat is the proven standard in the horticultural industries and for very good reasons. Healthy turf relies on a balanced diet of water, air and nutrients. A properly constructed root zone using peat will provide this balance and give a hedge against natural excesses and stresses.

The root zone must breathe and be permissive to gases and water, and at the same time function as a reservoir of available moisture. Peat provides both pore space for pathways and cellular fibers for sorption sites. The water held by peat is readily available to the roots of the turf. No other organic can provide both storage



Tom Levar

and availability so well. The fibrous nature and structure of peat enables the controlled metering of water and gases in the constructed root zone.

The greatest bonus of sphagnum moss peat in sports turf management is water conservation. The water in the root zone is the "chicken soup" to the turf — a broth carrying nutrients, gases and other natural substances to and from the turf roots. If stagnant, this water can suffocate the roots and give rise to diseases and turf failure. The proper use of peat will improve your efficient water use through storage, with optimum gas exchange which promotes an aerobic environment. This means moisture storage without stagnant, anoxic conditions. The balance of water movement and storage is very critical, since all root-zone functions are related to these processes.

Not only is total water use made more efficient with peat, but water quality is also improved. Peat performs as a physical filter to root-zone water which may be laden with nutrients and agrichemicals. Micro-organisms reside in the organic and biologically degrade agrichemical residues, enabling their contact and bioconversion by microorganisms. By using peat, the water percolating through the root zones of your facility is physically and biologically treated.

An additional conservation bonus of peat is related to the inherent presence of peat humic substances. Organic acids stimulate microbial activity and promote more efficient nutrient conversion and uptake by the plants. This effect on the beneficial micro-organisms gives them a competitive advantage over pathogens in the

Continued on page 21

Letters

DETAILING A RECIPE FOR ROOT ZONES

To the editor:

I admire Mark Leslie's editorial in the November issue, "We mustn't forget: Greens, root zone are living organisms."

The "recipe" you describe is widely accepted, specified and used by the Deans of American Golf Construction. You identify several of these Deans in your editorial and the accompanying article ("Experts decry inconsistent root-zone mixes"), none of whom address your question: "Does anyone know what this recipe evolves into?"

The solution to your "recipe" is not found in the school of agronomy but is discovered in the school of medicine; pre-med to be exact, in the microbiology section.

See "Facts on File, Biology," edited by Elizabeth Tootill; Library of Congress catalog #88-045476; published in New York-Oxford-Sydney. This particular volume describes Part A of your "recipe" for peat. What follows is a partial description of "peat" from the above text:

1. Partially decomposed plant material that accumulates in water-logged anaerobic conditions; varies from light spongy material to a dense, brown, humidified material in the lower layers.

A. If mineral salts are present, neutral or alkaline peat (fen peat) is formed.

B. If there are no mineral salts present, acid peat (or bog peat) is formed.

What follows next is a description of the spongy and humidified material:

1. Mull: humus from deciduous and hardwood forests, grasslands, warm humid climates; neutral; alkaline; supports bacteria, worms, larger insects are abundant; decay is rapid.

2. Mor: humus; usually acidic characteristic of coniferous forests; few micro-organisms exist; anthropods and fungus being the most common organisms; decay is very slow.

The textbook description of your recipe would now read:

acid peat = peat (bog) = raw humus (mor)...

GOLF COURSE NEWS

supporting anthropods and fungus.

The next step in your "recipe" is the sand. A silica is superior to any calcarious sand. But it can be equally dangerous if not graded correctly. "Correctly" means no fines below the #100 screen and enough pore space to allow oxygen and water movement (The new United States Golf Association specification has difficulty meeting these basics).

Basically, the fertilizer and water cannot move or function if they are isolated or locked in an extremely fine mix. The fungus present in the acid peat then expands, leaving the golf course owner and maintenance staff with no other choice than litigation because, at this stage of the game, the green has failed.

So the recipe evolves into an impossible project for the superintendent, who will then hire an agronomist, who will recommend various fungicides that might or might not work.

The success/failure ratio in Colorado projects between the late 1970s and today also identify your "recipe" and the recipe's results:

1. Late 1970's to Early '80s: All organic material used was a native peat, an extremely heavy black soil. Successful, if handled cautiously.

2. Early to mid-'80s: Your "recipe" was used, sometimes with moderate success but always with problems. Some severe failures — namely, Breckenridge and Castle Pines — occurred.

3. Mid-'80s to today: Change to neutral organic on 95 percent of Colorado projects with 100 percent success to date. The five percent using an acid (not neutral) peat suffer similar fungus problems as those seen in the early '80s.

If the Deans of American Golf were to follow the example of the Canadian and American effects during the mid-1960s to stop the deadly contamination in the Great Lakes, perhaps golf greens would turn green.

Tom Briddle

Tectonic

Longmont, Colo.

OBITUARIES

Frank Duane, 73

Francis J. (Frank) Duane, a golf course architect who overcame paralysis, died Nov. 16, 1994. He was 73.

Duane, who was confined to a wheelchair after suffering from a rare paralysis in 1965 and a stroke in 1972, designed more than 60 golf courses as an associate of Robert Trent Jones and Arnold Palmer, and in his own practice. Duane also remodeled or expanded more than 45 facilities. His projects are found throughout the U.S., Canada, South America, Puerto Rico and Jamaica. Some of his courses include Bel-Ierive CC in Creve Couer, Mo., Big Sky GC in Big Sky, Mont., Half Moon Bay (Calif.) CC, Howell Park GC in Farmingdale, N.J. and Tamarest CC in Alpine, N.J. Duane served

as president of the ASGCA in 1972 and was a fellow.

A graduate of the New York State College of Forestry at Syracuse University with a degree in landscape architecture and recreational management, Duane believed golf course architecture should be a fair challenge to not only the professional, but the average player too. "Golf course design must not forget that 95 percent of golfers who pay the bills," he once wrote.

A native of Queens, Duane lived in Port Washington, Long Island, since 1957. He is survived by his wife of 39 years, Mary; sons Andrew and Joseph; daughters Mary, Patricia and Olivia; brothers James, Thomas and Robert; sisters Grace and Alice; and one grand-daughter.



Milton Coggins, 92

Milton D. Coggins Sr., an active golf course architect in the Southwest for 25 years and a fellow of the American Society of Golf Course Architects, died on Nov. 4, 1994. He was 92.

Mr. Coggins was one of the greatest figures in the history of Arizona athletics. In 1922, while attending Phoenix Union High School, he and his teammates won the state basketball title. He later started for the baseball team University of the Redlands, where he graduated with a degree in economics. He won five Arizona state tennis titles during the 1920s, was an avid hunter and fisherman. One of Mr. Coggins' friends was Clark Gable, who once said: "Coggins goes with the Arizona outdoors like its sun-

shine and pine trees."

As his life progressed, however, golf became Mr. Coggins' true love. Taking up the game in 1928 at the age of 26, he won the state amateur in 1931 & 1933. In 1940, he became PGA professional at Encanto Muni in Phoenix, a position he held for 25 years. After leaving Encanto, Coggins took up architecture full time. In total, he laid out 29 courses, including those carrying the Sun City name in Arizona (North, South and West), California, Texas and Florida. He was inducted into the ASGCA in 1970 and elected fellow in 1973.

Mr. Coggins is survived by his wife, Tate D.; sons Milt Jr. and Lewis; three grandchildren; and one great grandchild.

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Golf Summit '94

Continued from page 1

must embark on a public relations offensive detailing why the game is good for the environment and accessible to everyone. Indeed, the NGF is already soliciting campaign proposals from several high-profile public relations firms.

"The image campaign that's being contemplated is meant to support the other two critical issues to golf right now: the environment and player development," said Joe Beditz, president and CEO of the NGF. "We expect to hear back from agencies at the end of January and assess their proposals and review options for funding. If we have an

exciting plan laid out by the end of January, we'll be rolling this out in the spring. I don't think we can wait until the next Summit."

The NGF has formally solicited proposals from the four advertising/promotion agencies that attended Summit '94: Burson-Marsteller of New York; DMB&B of Bloomfield Hills, Mich.; Chiat Day of Venice, Calif.; and Pinnacle Worldwide of Chicago.

Most believe this past Summit was admirably focused — concentrated, as it was, on addressing three overarching problems: the environment, poor player development practices and the game's less-than positive image with the non-golf-playing public.

The latter must be addressed first. Because golf is perceived

as elitist (despite the fact that two-thirds of the nation's courses are open to anyone), course development and expansion are seen as frivolous acts when weighed against potential environmental impact.

For example, middle-income housing development is very difficult to oppose. Affordable housing is an "apple pie" issue — so wholesomely American, like baseball and farming, no one dares play the environmental card to thwart it.

Golf sits at the other end of the "apple pie" spectrum.

Player development is also affected by image. One study released at the Summit showed 75 percent of non-golfers don't even consider picking up the sport

because golfers "aren't like me." Is it any wonder that women, minorities and folks of modest means — i.e., those who don't see themselves as fitting in with rich, white males — never consider participating in the game?

Clearly, the industry needs an organized, image-enhancing public relations campaign showing that golf is accessible, affordable, environmentally friendly and fun.

"The notion of an industrywide PR initiative was presented by McKinsey at the 1988 summit, and discussed in 1990 and '92," Beditz explained. "Primarily, when discussed back then, the effort was focused on advertising to help promote the game to those who don't play. Six years later, while that's still an impor-

tant part to any image campaign, we see the need to also answer the negative publicity golf has been receiving. The latter point — that there is a negative component that has to be answered — makes now the correct time to implement a campaign."

Historically, acting upon Summit initiatives has been nearly impossible. Agendas are rarely in concert and, when it comes to implementation, much of the responsibility falls to the NGF which, in truth, is ill-suited to this task. The NGF is a research organization that, under the leadership of Beditz, has gone above and beyond the call of duty to organize strategy sessions like the Summit. Nevertheless, the NGF is the only golf organization broad enough to handle things like an industrywide public relations campaign. Besides, as Beditz himself noted: "While we are known for our research activities, our mission is simply to foster the growth and vitality of golf. And this vision goes well beyond our research duties, well beyond just keeping score."

The larger issue is money. The NGF has already solicited proposals from several savvy PR firms, but how does a non-profit organization raise enough cash, say \$2 million, in the first year?

Here are some ideas that merit attention:

- All 2,500 NGF business members (like *GolfCourse News*) would be required to kick in \$1,000.
- Every allied golf association — all the acronyms: PGA, GC-SAA, NGCOA, USGA, etc. — would levy a member-based fund-raising tax of \$10 per head.
- Owners at all 4,000 NGF member facilities would implement a green fee surcharge of \$1 and turn the proceeds over to the NGF.

Then there are those who stand to suffer most if golf's expansion is hog-tied by environmental regulation; the folks whose businesses shrink if the game can't attract new players or keep the players it has.

The manufacturers.

Growth, growth, growth. The industry wants it, but manufacturers need it. It's only right and proper that the bulk of this PR money come from the makers of balls, mowers, shafts, fertilizer, etc. They stand to gain the most if the campaign hits the mark; and lose the most if feet are continually dragged.

Donating 5 percent of each manufacturer's annual advertising and PR budget would do the trick.

"All of those things have been noted and should be considered," said Beditz. "We believe that all of those stakeholders should be interested in supporting a cooperative effort. If, indeed, we can get to the grass roots level on this, meaning the facilities, there are 500 million rounds being played.

"We don't need \$1 a round. A penny a round would do it."

Summit attendees agreed the industry is at a crossroads. Growth (there's that word again) is tapering off and image problems threaten to erode the status quo.

Continued on page 20

GOLF COURSE NEWS

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BRIEFS



EPA LAX ON GOLF DECISION

The EPA has still not made a "final" decision on whether the Worker Protection Standard will apply to golf course turf and ornamental nurseries and greenhouses that are used strictly for internal purposes on the course. The standard definitely will not apply to the playing area or grounds of the course. It will apply to any course that operates a nursery or greenhouse that sells products to off-site customers. The Golf Course Superintendents Association of America has written the EPA urging them to issue a final rule exempting nurseries and greenhouses used for internal purposes.



ATLANTIC CONFERENCE MOVES

DARTMOUTH, Nova Scotia, Canada — The Atlantic Turfgrass Research Foundation, in cooperation with the Atlantic Golf Superintendents Association (AGSA) will host the Atlantic Turfgrass Conference here, March 21-23. The event has been held in St. John, New Brunswick, the past 16 years. More information is available from the AGSA at 287 Lacewood Dr., Unit 103-156, Halifax, Nova Scotia B3M 3Y7.

NORTHWEST TRADE SHOW PLANNED

SPOKANE, Wash. — The Inland Northwest Turf and Landscape Trade Show is scheduled for Jan. 26, here at the Spokane Interstate Fairgrounds from 9 a.m. to 3 p.m. Turfgrass industry vendors will be on hand to show equipment, products and supplies for the trade. Admission is free. Exhibit space is still available. For more information call Julie Byce, the show coordinator, at 509-535-8305.

AVIARA PITCHES IN FOR WILDLIFE

CARLSBAD, Calif. — Aviara Golf Club, an Arnold Palmer-designed course that skirts the Batiquitos Lagoon, is helping in a \$55 million restoration of the lagoon that will enhance the natural habitat for plants, birds and animals. The ambitious restoration project calls for dredging 3.4 million yards of sand that will be siphoned through 15,000 feet of pipeline to a nearby beach. There are also plans for an information kiosk near the lagoon and a 1.5 mile hiking trail.

USGA pushes for soil lab certification

By MARK LESLIE

FAR HILLS, N.J. — Striving to assure that golf courses are served by "competent" laboratories that are putting their full effort into it, the U.S. Golf Association (USGA) is proceeding full-steam ahead toward instituting an accreditation program.

The USGA is working with the American Association for Laboratory Accreditation (AALA), a Washington, D.C.-based organization which has accredited more than 800 labs of various kinds. The 15 or so soil labs which test root-zone mixes for golf course construction, have never had an accreditation program to pass, and reaction among them is mixed.

"I've gotten good feedback from [lab representatives] happy to see it," said Jim Snow, national director of the USGA Green Section. "I just want the people who are serious about doing good work to get accredited. It has a lot of good purposes."

Dr. Norm Hummel of Cornell University, who studied the lab situation for the USGA two years ago and who himself runs a lab, said the requirements of accreditation "will immediately shake out some of the labs."

Saying he was intimidated at first and that one lab is "suspicious that anybody can be bought," Hummel added: "There will be some resistance because it will force everybody to do things according to protocol, to have an



'I just want the people who are serious about doing good work to get accredited. It has a lot of good purposes.'

— Jim Snow

internal quality-control program."

Indeed, one of the leaders in the industry, Turf Diagnostics & Design (TDD) in Olathe, Kan., takes exception to the accreditation, though for other reasons.

"Who's got the level of expertise to tell us we're accredited or not?" asked Vice President Steve McWilliams. "We can document what we do but, frankly, we don't see anyone qualified out there to tell us we're doing it right or wrong."

Saying his lab follows protocol and more, and adding that several changes in the USGA specifications were derived directly from TDD's procedures, McWilliams said: "I'm not sure it [accreditation] is going to fly... This is not an easy issue."

Continued on page 23

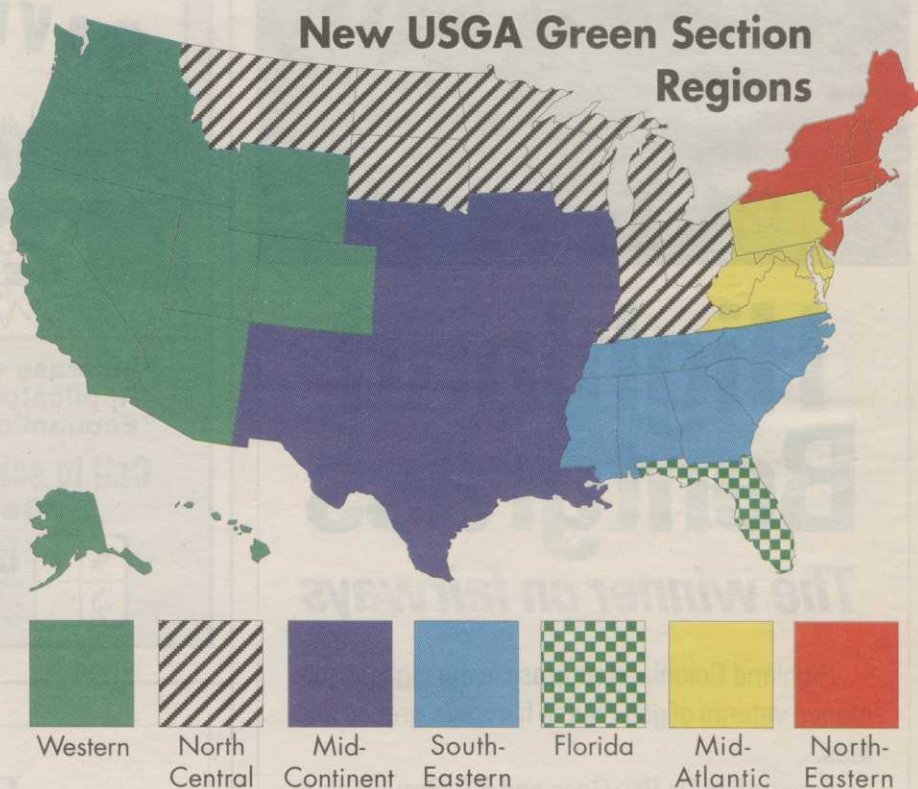
Regions are reorganized to better serve course clients

By JIM SNOW

FAR HILLS, N.J. — The United States Golf Association's (USGA) Green Section has reorganized several of its regions in an effort to provide better service to clubs and courses in its Turf Advisory Service.

Starting in the East, Ohio and Kentucky will become part of the new North-Central Region. The North-Central Region will include Kentucky, Ohio, Michigan, Indiana, Wisconsin, Minnesota, North and South Dakota, and Montana. These states will be serviced by newly-appointed regional director Bob Brame, in Kentucky, and Bob Vavrek, near Milwaukee.

The Mid-Continent Region will gain Illinois and Iowa in the reorganization. Colorado and Wyoming will move to the Western Region. Jim Moore will remain regional director from his office in Waco, Tex., and Paul Vermeulen will be moving from the Western Region office to



establish a new office in central Illinois.

The Western Region will pick up Colorado and Wyoming. Larry Gilhuly will remain as regional director from his office near Seattle.

Pat Gross and a new agronomist yet to be named will serve the southern part of the region from their office in

southern California.

The USGA Green Section is hoping that by establishing more than one office in a region — as was done in the Northeastern Region 10 years and in the Western Region in 1993 — it can provide better service.

ESPN to broadcast Par for the Course

Stossel joins Dodson, Erusha, Pyle in environmental general session

LAWRENCE, Kan. — ESPN will launch a golf "block" of programming that will air on Sunday mornings, and will broadcast *Par for the Course* as part of its package.

Produced by the Golf Course Superintendents Association of America (GCSAA), *Par for the Course* takes an innovative look at the world of golf from the view of what goes into making the game enjoyable.

The segments will air on 19 Sunday dates and 11 Thursday/Friday dates

throughout the year.

GCSAA will also be producing a series of feature segments for ESPN that will air during the network's coverage of PGA Tour and Senior PGA Tour tournaments. These short segments will highlight issues and trends in golf course management.

ABC-TV newsman John Stossel will make an encore appearance at the association's International Golf Course Conference and Show in San Francisco

on Saturday, Feb. 25.

Stossel, who appeared at GCSAA's 1991 conference, will be a panelist in an Environmental General Session, "Changing Perspectives," focusing on the public image of golf courses and how they are maintained.

Other panels will be Dr. Kimberly Erusha, director of education for the U.S. Golf Association Green Section; Ron Dodson, president and chief executive officer of the Audubon Society

Continued on page 32

GCSAA NOTEBOOK

See pages 26-31 for news on candidates, award winners and the international conference & show.

Super Focus

Back to nature: Wade leads return to organics

By HAL PHILLIPS

GARDEN CITY, N.Y. — Skip Wade, head superintendent at Cherry Valley Golf Club, has taken the organic lead here on Long Island, where colleagues aren't necessarily thrilled with his outspoken views on curbing chemical use.

"They thought I was crazy; they still do," said Wade. "That's why this is a positive thing. It's hard for a superintendent to change his spots. But

working with organics is the way to go. "I really think I'm going in the right direction."

So does the Golf Course Superintendents Association of America (GCSAA), which honored Wade with a pair of Environmental Steward awards in 1992 and '93.

So do manufacturers, who aren't backing away from this controversial superintendent. Wade has worked with The Toro Company's Huma-Gro Turf

Division, Ciba, biosys, Lesco and Ringer to develop and test organic prototypes. "I used Ringer's milky spore for grub control, the Japanese beetle," Wade said. "I haven't sprayed for that in at least five years."

So do his members, who've come to accept a golf course that isn't always tropically lush; isn't always a deep, emerald green.

And so does The New York Times, which ran a lengthy, positive story



'It's hard for a superintendent to change his spots. But working with organics is the way to go.'

— Skip Wade

(Nov. 20) featuring Wade's work with organics and composting at Cherry Valley.

"In 1988," Wade explained, "I listed all the active ingredients I used and it came to about 1,000 pounds of product. Last year I used 300."

"It's easier to get certain things accomplished with pesticides, but there's a middle ground."

Many superintendents experiment with organic programs but fall back on the tried-and-true methods when members start squawking. Wade is one of the few who've followed this path for as many as five years — so his observations carry significant weight.

Some examples:

- Red leaf spot: "I used to put down fertilizer plus fungicide in December," Wade explained. "It kept away the snow mold. When spring came around, the bentgrass would look real healthy. But then, because it gets sticky and damp in April, the red leaf would start to come in. I used to hit it with fungicides [active ingredients: chlorothalonil and iprodione]. I hit it with everything, trying to get it out of there."

"What I've discovered is, I was promoting red leaf spot by giving it too much nitrogen during the winter."

"Also, red leaf spot has a reddish look to it. As superintendents, if we don't have the course completely green, we panic. But now I live with it and just let it grow out."

- Poa annua: "Years back, I used to spray hyperodites weevils with my poa annua. I would've used an insecticide [chlorpyrifos or trichlorfon]."

"Now I don't spray for it anymore. I just let the weevils eat the poa annua. On the greens, I used a nematode from biosys. I've also experimented with eliminating the poa through overseeding with bents and ryegrasses."

- Anthracnose: "I don't even spray for it anymore," said Wade. "Anthracnose just turns poa yellow. With lower nitrogen, the problem with a yellow green weed isn't as severe a problem. If a guy is going for the green-carpet look, the problem is more severe because the contrast is so great. But if you aren't so green, it isn't as noticeable."

Wade is the first to admit he hasn't all the answers. There are many agronomic problems that will never be solved without the aid of EPA-approved herbicides, pesticides and fungicides.

"Dollar spot is the big problem," said Wade. "Because of the low nitrogen levels now, I get a lot more dollar spot. If I could figure that out, I could get that 300-pound figure way down."

Wade also acknowledges that Cherry Valley is an ideal course on which to implement an organic program. The sandy soil of Long Island helps and the 1906 Walter Travis-designed course is not carved from a dense forest.

"It's a pretty open course," Wade continued. "For a guy on the north

Continued on next page



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CIRCLE #111

Scotts seeks nominees for excellence award

MARYSVILLE, Ohio — The Scotts Company, sponsor of The Tradition Golf Tournament, has named the selection committee for the 1995 Scotts Tradition of Excellence Award, recognizing the outstanding achievements among golf course superintendents in advancing the science of course maintenance.

The Tradition of Excellence Award will be presented at The Tradition tourney, one of the four major tournaments on the PGA Senior Tour, scheduled for March 27-31, 1995. This year, the Golf Course Superintendents Association of America was so honored.

The selection committee, composed of former GCSAA presidents, includes:

- John Spodnik of Westfield, Ohio, served as president in 1969. Recently retired from Westfield Country Club after 35 years, he

now consults for Westfield Co.

- Cliff Wagoner, CGCS, of Modesto, Calif., served as president in 1973. Retired after 35 years with Del Rio Country Club in Modesto, he currently consults on agronomic matters, most recently in Morocco and Tunisia.

- Michael Bavier, CGCS, of Barrington, Ill., served as president in 1981. He has spent the last 25 years with Inverness Golf Course of Palatine, Ill.

- Gene Baston of Augusta, Ga., served as president in 1985.

He has spent the last seven years with West Lake Country Club.

- Donald Hearn, CGCS, of Chelmsford, Mass., served as president in 1987. He's spent the last 22 years at Weston Golf Club.

- Dennis Lyon, CGCS, of Aurora, Colo., served as president in 1989. He has served 21 years with the City of Aurora as manager of golf.

"For too long, the golf course superintendent has worked behind the scenes," said Dave Heegard, Scotts vice president

of ProTurf, who also serves on the selection committee. "This award raises the visibility of the superintendent significantly, and The Tradition gives us a forum to tell the public how important the superintendent's work is."

Heegard said nominations for the award may come from anyone. Forms are available by calling Deb Strohmaier at Lord, Sullivan & Yoder, Inc. at 614-846-7777; or by calling the GCSAA's Burk Beeler at 913-841-2240.

The nominating criteria are:

1. The nominee must be employed as a superintendent.
2. Their course must be well

maintained.

3. They will have shown good teaching and mentoring qualities throughout his or her career.

4. They must be a leader, helping to further understanding of and within the profession through communication, such as speeches to organizations or writing for publications.

5. They will demonstrate environmental responsibility.

6. They will have been involved with research and innovation in cultural or management practices.

7. They will be involved professionally at the local level.

Skip Wade

Continued from previous page

shore of Long Island, or anywhere some architect built a green in the middle of the woods, it would be harder to go organic. I don't have any really bad problems in the corners."

Remember, it was here on Long Island that hundreds of geese were allegedly killed after consuming pesticides applied at Seawane Country Club in nearby Hewlett Harbor. Like many superintendents with geese problems, Wade turned to an organic/canine solution. Instead of going with the more common border collie approach, however, he settled on a Chesapeake retriever, Hershey, who has done the job.

The Cherry Valley membership has also responded, purchasing a catalytic water conditioner, designed to make water more easily absorbed by turf and plants. According to the manufacturer — Carefree Water Conditioner of Santa Ana, Calif. — by making water "wetter", this approach can help cut irrigation by 30 percent.

Wade has also worked with the club chef, recycling an average of 2,000 pounds of kitchen waste each month. The resulting compost is used on the golf course and saves the club an average of \$15,000 per year in tipping fees.

Though he has taken some abuse, from members and colleagues, Wade hasn't been shy about spreading the organic gospel. The Times article proves that. He also speaks for the Coalition for Alternative Pesticides in New York.

In that vein, Wade will present two seminars at the upcoming GCSAA show, Feb. 24 and 25: "Reconstructing bunkers with compost" and "Cutting down on pesticides — Poa control and organics."

GOLF COURSE NEWS

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Composting: Heating up maintenance operations

By ROBERT STEUTEVILLE

Composting operations and/or use of recycled organic materials on the links is becoming par for the course nationwide. Composting offers the potential to save on disposal and purchasing of soil conditioners.

One example is the Pebble Beach Co. The major landowner on California's Monterey Peninsula manages hotels, wildlife areas, resort and residential property in addition to four golf courses. Until about a year ago, 2,500 tons/year of green waste from these facilities were going to a landfill.

Now, "almost everything that you can think of that is green is going to the compost operation," said Eric Love, director of forestry and ecology for the Pebble Beach Co.

Equipment and operational space are the primary challenges to getting a composting program started.

At Pebble Beach, composting takes place in a section of a company-owned quarry. The land was already disturbed, so minimal site preparation was necessary, Love said. The company purchased a new tractor with a grapple bucket and preshredder, a windrow turner and shredder/processor. The total cost was under \$200,000.

"We know we are saving thousands of dollars a month in disposal fees and labor to get the material to the dump," said Love. "The equipment will pay for itself, but we don't know how long it will take."

Organic material savings is another selling point.

"We figure it's costing us \$7 a yard for the compost. Before we were purchasing material for \$30 a yard," Love said. The compost is fairly similar in texture and pH to the formerly purchased material and is "just as good" for his purposes, he added.

The process starts with shredded brush placed in six-foot-wide windrows. Grass is incorporated into the piles with the turner to achieve better moisture and nitrogen levels. On a few occasions, during rainy periods, an inoculant was added to activate the piles. The first windrows took about six months to produce finished product, but the company since has refined its composting process.

"If we keep the temperatures high for six to eight weeks, we think we will be able to move the material and use it after three months," Love said.

Most of the material is used for

environmental restoration, particularly in new plantings of native plants. Although Pebble Beach has yet to utilize its compost in day-to-day golf course landscaping operations, some courses are starting to do just that, according to Eric Nelson, an associate professor of plant pathology at Cornell University in Ithaca, N.Y.

At nearby County Club of Rochester, compost has been successful in controlling fungal

disease. In three years of applications, fungicide use was reduced 97 percent, Nelson said.

Some composts have disease-suppressive qualities as a result of the microbial activity in the compost itself. Other composts appear to stimulate microbial activity in soil, and thus suppress fungal growth. The only exception is pure yard trimmings compost, which has no suppressive effect at all. However, yard trimmings

composts can become suppressive with the help of inoculant, Nelson said.

There are an estimated 14,000 golf courses in the United States. Many may be composting, but it is still a small percentage of the total, according to Roch Gaussoin, turfgrass extension specialist with the University of Nebraska.

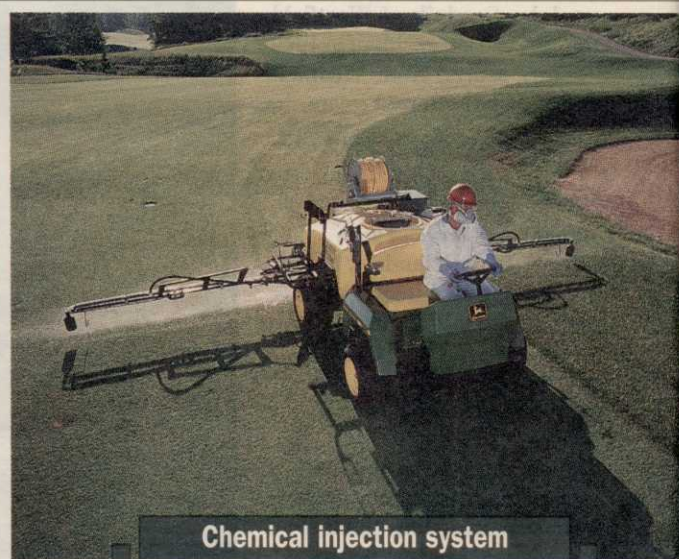
Golf courses theoretically can utilize much more organic matter than they can produce in

a compost operation, according to Rod Tyler, director of product and market development with Kurtz Bros. in Independence, Ohio. The average course includes 25 acres of fairway. A half-inch application of compost topdressing would use 1,685 cubic yards of material. That calculation does not include greens or roughs. Tyler estimates that most golf courses could only produce several

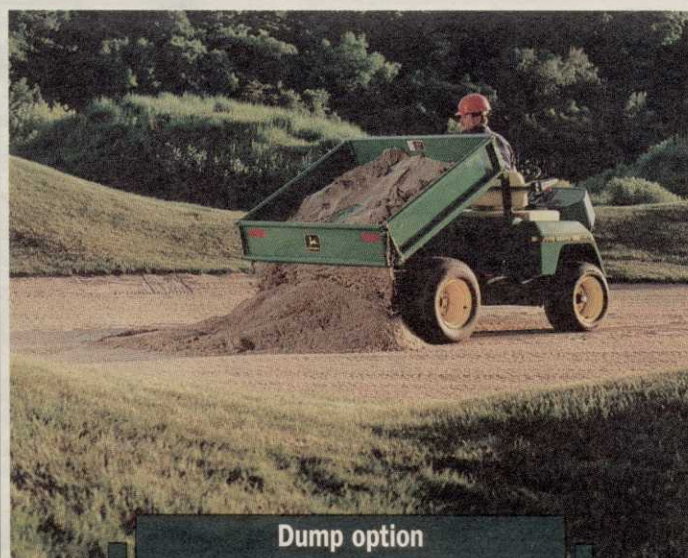
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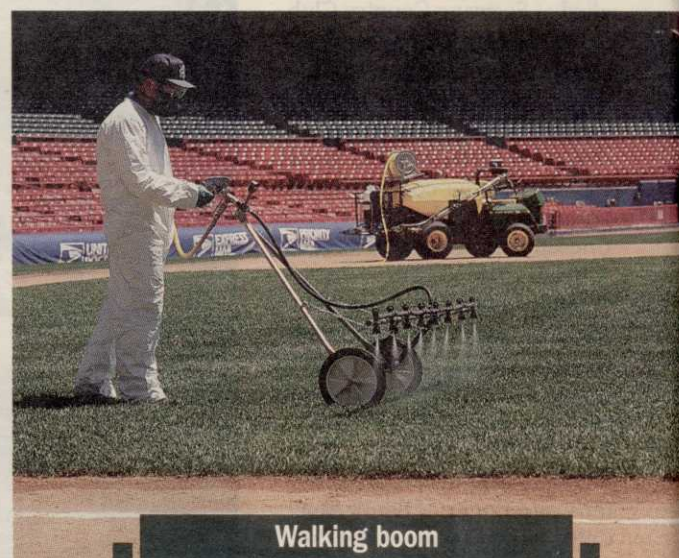
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This is an edited version of an article reprinted with permission from BioCycle, June 1994. For a sample copy of the entire article, contact BioCycle, Journal of Composting & Recycling, 411 State Ave., Emmaus, Pa. 18049.

Va. Tech, Cook offer short courses

BLACKSBURG, Va. — Virginia Tech is offering a five-day program in turfgrass ecology and management starting Jan. 30, designed to provide an overview of the fundamentals of turfgrass management.

The Turfgrass Ecology and Management Short Course is designed for both new professional turfgrass managers as well as experienced managers. Thirteen faculty from different disciplines will offer 36 hours of

lectures and lab instruction.

The fee for the course is \$365, which includes the book "Turfgrass Management" by A.J. Turgeon, a notebook, a certificate, group photograph, banquet, reception and refreshments. The registration deadline is Jan. 16.

For more information about registration contact the Conference Registrar's office at 703-231-5183. For course information, contact Dr. Dave Chalmers at 703-231-5797.



COOK COLLEGE OFFERS COURSES

NEW BRUNSWICK, N.J. — The Cook College Office of Continuing Professional Education at Rutgers University is offering two short courses designed for environmental, landscape and engineering professionals.

The first, scheduled for Jan. 13 and 14, 1995, is "Lake Management" and will cover lake

ecology and lake rehabilitation measures. The course fee is \$145 and includes two meals and course materials.

The second, Jan. 31 and Feb. 1, is "Stabilization and Restoration of Disturbed Sites" and will explore ways to control erosion by establishing vegetative cover. The fee is \$195 and includes two meals and course materials.

For more information or to register contact Cook College of Continuing Professional Education at 908-932-9271, or write to P.O. Box 231, New Brunswick, N.J. 08903-0231.

Turf book out

OAKLAND PARK, Fla. — A new book to help superintendents determine how healthy their greens are and how much they're worth is now available from Turfgrass Products Publications (TPP). "Diagnostic Turfgrass Management ... For Golf Greens," by Tom Masacaro, explains how to evaluate the health and value of the greens through soil samples, analysis and data records. It also outlines a management program built around daily, weekly, monthly and annual monitoring tasks. The book has 100 color photographs and a 500-page workbook with charts and instructions.

The book is available from TPP, 4740 NE 12th Avenue, Oakland Park, Fla. 33334 or by calling 1-800-258-7477.



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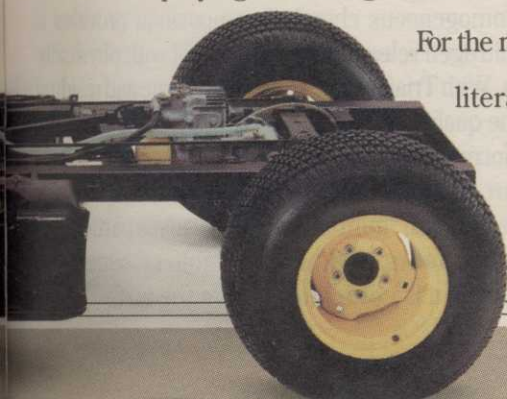
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Composting

Continued from previous page

hundred yards of compost annually.

Kurtz has served as a consultant to help two Cleveland area courses—The Country Club and Kirtland Country Club—start low-tech windrow operations. The next project will involve Jack Nicklaus' Muirfield Country Club in Columbus, Ohio.

Composting has penetrated more into the high maintenance, expensive country clubs than the public courses, according to Steve Probasco, a sports turf marketing representative with Kurtz Bros. However, similar benefits are possible with municipally owned courses.

The City of Erie, Pa., owns and operates three municipal golf courses. The city is in its third year of operating a municipal yard trimmings composting program. About 50 percent of the compost is used on the courses, while the rest assists in landscaping along roads and in parks, according to Bruce Dougherty, chief of parks and recreation.

The Club at Nevillewood in Collier Township, Pa. has joined in a partnership with the township and nearby Scott Township to handle yard trimmings. A site was selected on an undeveloped lot in Nevillewood. Collier Township maintains the compost piles, and the costs are split among the three contributors according to how much material will be processed. Nevillewood superintendent Ken Flisek plans to use the material for flower beds initially and hopes that enough material will be generated eventually that he will be able to use some for topdressing on fairways.

GolfLink adds lightning data to new network

NASHVILLE, Tenn. — GolfLink, a computer network that connects golf courses nationwide with weather data and research and other industry information, has added lightning detection to its services. GolfLink has connected to the government's National Lightning Detection Network, operated by Geomet Data Service of Tucson, Ariz., according to Jerry Lemons, president of GolfLinks, Inc. here. "When lightning strikes 15 minutes away, you get the information in five minutes," he said, explaining there is a five-minute data-processing time. He said the computer tracks storms far in the distance. More information is available from GolfLinks at 4811 Lebanon Road, Suite 107, Hermitage, Tenn. 37076.

Carolina GCSA elects Farren

CLEMSON, S.C. — The Carolinas Golf Course Superintendents Association recently elected Robert O. Farren of Pinehurst Country Club, Pinehurst, N.C., as president for 1995 and Charles Green, III, Florence Country Club, Florence, S.C., as vice-president for 1995.

John K. Williams of Keith Hills Country Club in Buies Creek, N.C., was elected treasurer and Donald C. Garrett, Jr., of the Dataw Island Club, Dataw Island, S.C., was elected secretary.

The Board of Directors for 1995 are George Thompson, C.C. of North Carolina, Pinehurst, N.C.; Randall Long, Thornblade Club, Greenville, S.C.; Jim Neely, The River Club, Pawleys Island, S.C.; Kevin B. Redfern, WildeWood Golf and Polo Club, Columbia, S.C..

Also elected to serve were David L. Pulley, Topsail Greens Golf and C.C., Hampstead, N.C.; Mickey McCord, Carolina Trace C.C., Sanford, N.C.; Joel A. Ratcliff, Sedgefield C.C., Greensboro, N.C.; Michael K. Fabrizio, Sapphire Lakes C.C., remains on the board as past president; and John Davis, Secession Golf Club, Beaufort, S.C. Farren, Green, Williams and Davis are also members of the board.

MASS TURFGRASS SET FOR MARCH 6-8

SPRINGFIELD, Mass. — The 64th Massachusetts Turfgrass Conference and 19th Industrial Show are scheduled for March 6, 7 and 8, here at the Springfield Civic Center. For more information, contact Dr. Joseph Troll of the Massachusetts Turf and Lawngrass Association, at P.O. Box 489, Hadley, MA 01035, or by calling 413-549-5295.

Environmental alliance elects super as president

WAYNE, N.J. — The Alliance for Environmental Concerns recently elected a new board of officers at its annual meeting.

These included, Armand LeSage, golf course superintendent at White Beeches Golf and Country Club, president; and John Buechner of Lawn Doctor, vice president. Other officers include Thomas Intile, treasurer; and S. Howard Davis, executive director of the N.J. Nursery and Landscape Association, as recording secretary.

The following directors were also elected: Steven Chirip (United Horticultural Supply), Wayne Dubin (Bartlett Tree), Michael

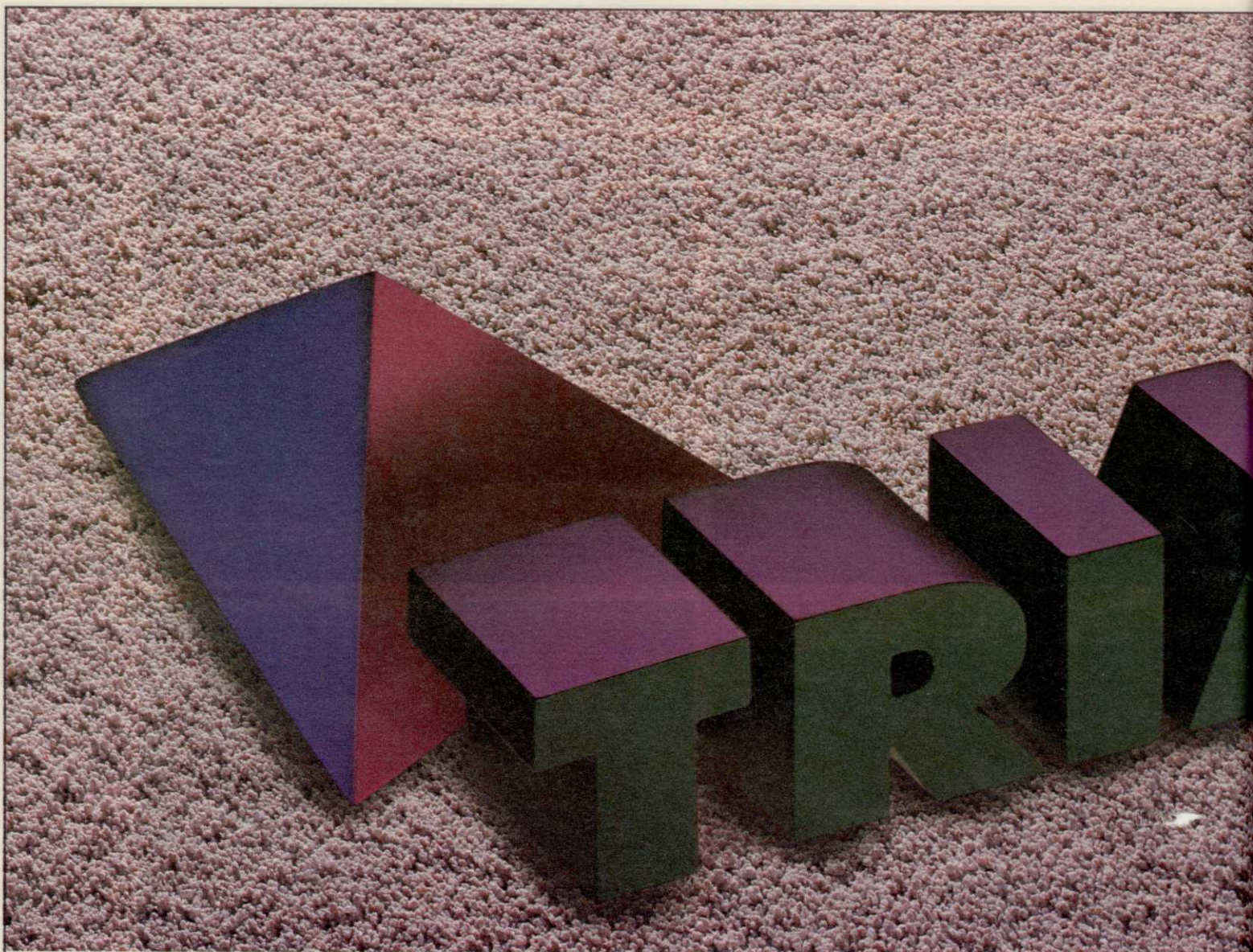
Oleykowski (Ciba Turf), Kenneth Kubik (Grass Roots), Richard Sameth (Western Industries).

Also elected to serve were: Paul Powondra (Princeton Meadows Country Club), Robert J. Scott (DowElanco), Joseph Bianco (Green Thumb Services), and Lee Schaber (TrueGreen/Chemlawn).

The alliance is a broad-based coalition of turf professionals, arborists, structural pest control experts, Christmas Tree growers and farmers and represents a majority of pesticide applicators and pesticide applicator businesses in New Jersey.

VILLAGE AT KAPALUA JOINS AUDUBON

KAPALUA, Hawaii — With the recent certification of The Village Course as an Audubon Cooperative Sanctuary, the 1,500-acre Kapalua resort on Maui stands as the only multi-golf facility in Hawaii to have all its courses in compliance with the standards of the New York Audubon Cooperative Sanctuary System. In 1993, Kapalua's Bay Course was the first course in the U.S. to be certified as an Audubon Sanctuary, followed by The Plantation Course in August 1994, and the Village in October 1994.



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What makes Triaform technology different is the patented process that replaces highly water-insoluble nitrogen with the shorter-chain, controlled-release methylenediurea (MDU) and dimethylenetriurea (DMTU).

These compounds allow more efficient use of nitrogen and provide faster particle breakdown on application to the turf. Nutrients release steadily and safely over a wide variety of soil

types and weather conditions, with more predictable controlled release, more total available nitrogen, and more consistent response.

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Triaform's homogeneous chemical composition provides a more consistent nitrogen release than you can get with physically blended fertilizers. With Triaform, you'll see immediate and residual improvement in the quality, color and density of the turf, with quick greening and uniform color response for 8 to 12 weeks of feeding.

And Triaform granules disperse readily on contact with water, without the material "gumminess" that causes particles to stick to spreaders, mowers, golf balls and golfers' shoes. So plant-available nitrogen is not removed from the turf.

Environmentalists line up in support of ecosystem research proposal

Continued from page 1

and support at the meeting, the USGA Green Section hopes this spring to send out requests for proposals for the research.

The environmental community was "surprised and excited" by the prospects of the \$300,000 the golf association has set aside for the research, said USGA Green Section National Director Jim Snow.

"They were very enthusiastic," Snow said. "They were surprised at the extent of

the program. Without exception, they said how great they thought it was that we were doing this, and they would do whatever they could to help provide information or work with the project.

"One of them even said, 'If you continue to do this kind of work and work with groups like ours, you will get people on your side. They were very positive. It makes it worth our while to get others [in the golf industry] participating in it, too.'"

The meeting "established a

solid foundation for not only the research aspects we're interested in, but also the communication and educational facets," said Dodson, whose New York Audubon initiated the Wildlife Sanctuary Program for Golf Courses that has spread throughout the country.

The USGA has set aside \$100,000 a year for the next three years, and held the meeting to discuss how best to spend the funds.

Represented were the

Cooperative Fish and Wildlife Research Unit (associated with Clemson University); National Wildlife Federation; Neotropical Migratory Bird Conservation Program; Florida Audubon Society; Wildlife Conservation Society; the Department of Biology with Tabor College in Kansas; the Bronx Zoo; the Ecology Unit of European Golf Association, by David Stubbs; Golf Course Superintendents Association of America (GCSAA), by Dr. Jeff Nuss; and

the USGA, by Snow, Dr. Mike Kenna and Dr. Kimberly Erusha, and Research Committee members Dr. Victor Gibeault of University of California-Riverside and Dr. Charles Peacock of North Carolina State. Also participating were superintendent Charles Passios of Hyannis, Mass.; ClubCorp's Michael Quimbey; and Jeff Froke, the land resource manager with Rancho San Carlos in California.

"It shows good cooperation between the environmental associations and the golf course industry," said Erusha, the USGA's director of technical communications. "And it shows a lot of potential for the future — for not only cooperating on the projects but also working toward getting additional information."

"We worked up eco-regions, and then took collective information on the habitat and the important ecosystem relationships between, for example, a managed fairway and a wetlands system," Dodson said. "We collectively agreed the area between a functioning wetland and a turfgrass area is an important component of a golf course to study, and we should be looking at the cause-and-effect relationships between managing a golf course for golf and the functioning of a wetland from a biological point of view."

The end process would document what is actually going on in a wetland and turfgrass environment, and establish management criteria that can be used for future design and management activities on golf courses."

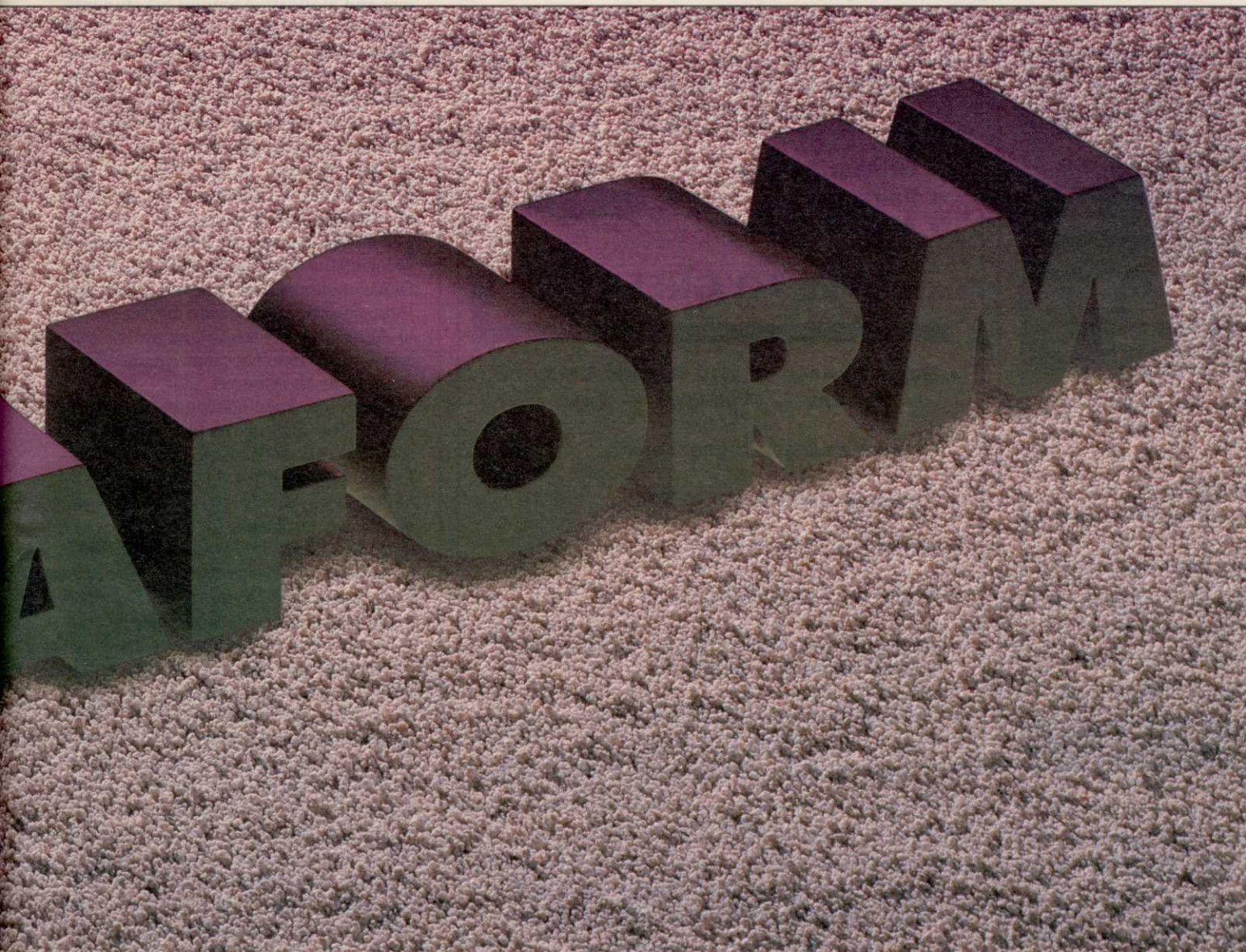
Snow said the number of projects that will be funded depends partly on the kinds and costs of projects proposed — and whether other golf industry organizations join in the funding.

"If a bunch of projects cost \$5,000 to \$10,000, then we can do many more than if they cost \$30,000 or \$40,000," he said. "We're also hoping the GCSAA, PGA and other allied associations will help. They have expressed interest in this for awhile now. We haven't asked them for money outright yet."

The USGA funds would serve as seed money in a restricted fund, which could include donations from the various other organizations, manufacturers and individuals.

"It is partly to show the whole industry supports wildlife research — not just the USGA," Snow said. "I think that's important. If others do join, we will call it an allied golf wildlife program."

Snow said he will be negotiating with another organization to coordinate the program. Requests for Proposals most likely will be publicized sometime this spring, he said.



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Triaform™ Technology

CIRCLE #114

Duich's contributions to turf world earn Rossi Award

By MARK LESLIE

CHAPEL HILL, N.C. — Forty years of teaching students, breeding turfgrasses that in some cases have dominated their markets, helping to initiate national turfgrass trials, and elevating the Pennsylvania State University turfgrass program to among the nation's elite have earned Dr. Joseph M. Duich selection as the Don A. Rossi Humanitarian Award for 1995.

"We are honored to present this award to a man who has meant so much, and done so much, for the golf industry," said Philip Arnold, executive director of the Golf Course Builders Association of

America (GCBA) which presents the award. "I can't think of a more 'humanitarian' profession than teaching, and Dr. Duich has the respect and admiration of golf course superintendents — as well as builders — all over the country."

"Dr. Duich is one of the unsung heroes in our industry, who has also helped builders with technological advances," said GCBA Vice President Paul Eldredge of Wadsworth Golf Construction Co.

The Rossi Award is given in memory of



Dr. Joseph Duich

the man who created GCBA and once piloted the National Golf Foundation.

"I thought I was beyond getting awards," mused Duich, who retired in 1991 as Professor Emeritus of Turfgrass Science after 36 years at Penn State. Although officially retired, he travels the globe as a turfgrass consultant, and is introducing "a new generation of bentgrasses" this year.

Saying he is "most pleased and honored" to receive the Rossi Award, Duich said his greatest contribution "undoubt-

'Dr. Duich is one of the unsung heroes in our industry, who has also helped builders with technological advances.'

— GCBA Vice President
Paul Eldredge

edly was being involved with students. That's the best part. It was particularly rewarding in the golf course field. That's where the majority of our [approximately 1,100] graduates have gone."

Prime among Duich's objectives, he said, has been upgrading of professionalism and motivation among his students.

Duich, who began his career at his alma mater, Penn State, in 1955, assumed the responsibilities of turfgrass project leader when Prof. Burt Musser retired in 1959. The research facilities have expanded nearly tenfold since then, including development of the Valentine Turfgrass Research Center and the positions of soil chemist-physicist, plant physiologist and instructor. In 1984 the program received the National Association of State Departments of Agriculture-R.J. Reynolds Industries National Award for Excellence in Agricultural Technology — the only turf and less-than baccalaureate-level program to be so honored.

Duich has been instrumental in introducing new turfgrasses to the golf industry, notably Pennfine ryegrass and Penncross, Penneagle and Pennlinks bentgrasses, which have been dominant on the world market for decades. More than \$3 million in royalties from these turfgrasses has been returned to the Penn State Agronomy Department to support its programs and perpetuate turf research.

Duich's new bentgrasses coming onto the market this year are "unique in that they are very fine-textured, the most dense of any variety and do tolerate close height of cut; and, in fact, have to be cut close," Duich said. They are also heat-tolerant and perform very well versus poa annua because of their density, he said.

Duich received the Distinguished Service Award from the Golf Course Superintendents Association of America in 1976, the USGA Green Section Award in 1981 and has been given numerous other awards and honors. He is a fellow of the American Society for Advancement of Science.

He also helped initiate the first regional turfgrass evaluation trials, which were the forerunner of today's National Turfgrass Evaluation Program administered by the U.S. Department of Agriculture.

Golf Summit '94

Continued from page 12

National, fully coordinated, professional public relations campaigns have the ability to change image and perception. A Summit speaker used the fur industry as an example of how image can stymie a market. After five years of taking hits from rabid anti-fur activists and watching profits go down the drain, the fur industry finally embarked on a very successful PR offensive. In terms of public perception (and sales), the fur industry has regained its viability.

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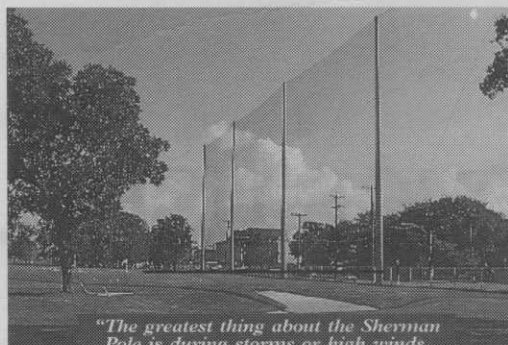
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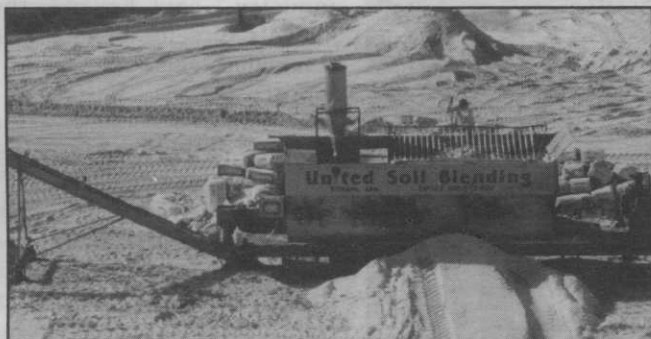
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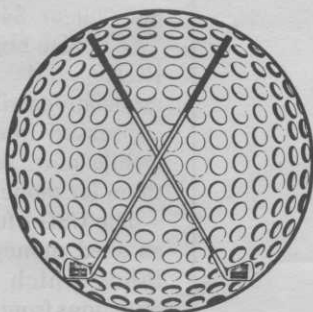
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CIRCLE #119

In search of the better idea

By TERRY BUCHEN

BELTON, Mo. — Nels A. Lindgren, CGCS, golf course superintendent here at the Loch Lloyd Country Club, grew in this tournament-caliber golf course in 1989 and hosted a Senior PGA Tour event

just 13 months after it opened for initial play. Quite a feat, to say the least.

The course, just south of Kansas City, was designed by Don Sechrest and built by Wadsworth Golf Construction Co.

I like to tour other superintendents' maintenance facilities as I always learn at least 10 new ideas on how to operate a modern, functional, efficient maintenance building operation. I was at Golf Course Superintendents Association of America headquarters in September for a Research Committee meeting and had the pleasure to stop off at Loch Lloyd with Don Tolson, CGCS, and Mark Esoda, CGCS, for a "Cook's Tour" and came away with the following neat ideas:

GRANULAR FERTILIZER/PESTICIDE STORAGE

Making the best use of available space in a maintenance building is always a superintendent's goal. Lindgren found

some used warehouse racks for his 30-by-60-foot cold storage building. This building has 12-foot-high garage doors with 13-foot ceilings. The racks were cut with a torch to fit on all three sides of a building that did not have garage doors.

The club mechanic rebuilt an old forklift by putting in a new short block and they started putting in pallets of fertilizer that weighed about one ton each. Where the pallets were three across, the metal sagged slightly but remains structurally strong on the free-standing racks. Lindgren and his crew use space underneath the lower racks for additional equipment storage, which works quite effectively.

Lindgren has one additional used warehouse rack outside one of his other maintenance buildings that was not cut off with a torch. The rack is 16 feet high. It is used for palletized storage for tournament supplies, irrigation pipe, irrigation spools of wire, etc. The racks had brackets welded to them and bolted to the outside of the building. Because of their additional height, they needed this extra strength.

FOAM MARKERS

Foam markers are common on boom-type golf course sprayers to show the operator where he/she has sprayed and where he/she hasn't. The markers are becoming more common for use with tractor/truckster-mounted rotary and



Granular products can be stored easily and neatly with a forklift.

oscillating fertilizer spreaders.

Lindgren has mounted a Richway Foam Marker on the front of a turf tractor and has two hoses out in front (in-between the front wheels). He uses a red piece of rebar steel for weight.

When his personnel fertilize wheel track to wheel track, a foam spot is left in-between each wheel mark. For added insurance, a green dye could be added just in case the foam disappears during a hot, sunny day while the spreader is being filled up with material.

Electric switches, which operate the marker, are located on the dash board and the 12-volt electrical is hooked up to a spare fuse.



The foam marker mounts easily on frame bolted to front weight tray of tractor.

Levar: For turf's sake

Continued from page 11

root-zone environment. The benefits of superior health, pathogen suppression and reduced reliance on artificial substances further justifies the use of peat in root zones.

Peat is the standard, natural organic of the horticultural industry and has been for decades. It has stood the tests of research and commercial use over time, and is unparalleled in performance as a plant substrate. To best ensure its performance, follow a quality-control pathway of selection, analyses, blending and testing of your components. While establishing and sustaining a healthy, playable turf, you will receive the bonuses of water conservation, more efficient use of agrichemicals and reduced management costs using peat.

Public chemical concern

Continued from page 3

indicate they currently use a lawn care company.

- People strongly believe pesticides are safe when used as directed, but are less certain if their neighbors are using pesticides safely.

- Approximately half of those surveyed believe pesticides made available to the public are thoroughly tested, with the remaining respondents indicating they are unsure if pesticides are thoroughly tested.

- "Maintaining public health" was the reason given by almost 8 in 10 respondents for applying pesticides to control pests and weeds in public areas.

For more information on this study and its findings, contact RISE at 202-463-0474.

REINDERS HOSTS TURF SHOW AND CLINIC

ELM GROVE, Wisc. — Reinders, Inc. will host its 12th Turf Conference, Equipment Show and Service Clinic on March 15 and 16, here at the Waukesha Expo Center. The clinic is the largest show of its kind in Wisconsin and has been held every year since 1973. More than 1,400 people are expected to attend. For more information contact Ed Devinger at Reinders, Inc., 13400 Watertown Plank Road, Elm Grove, Wisc., 53122 or by calling 414-786-3301.

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CIRCLE #118

WHERE THEY'RE GOING

Davies joins Merced G&CC

MERCED, Calif. — **Ray Davies**, a member of the *Golf Course News* Editorial Advisory Board, has accepted the head superintendent's position at Merced Golf and Country Club here. Davies had been the superintendent at Virginia Country Club in Huntington Beach.



Ray Davies

CHARLESTON, S.C. — **Tony Brown**, superintendent at the Country Club of Charleston for the past seven years, has been named to the same position at Wild Dunes Resort. Brown replaces **Mike Fabrizio**, who recently accepted the job as superintendent at Sapphire Lakes Country Club in Sapphire, N.C., after more than six years at Wild Dunes. A 1982 Clemson graduate, Brown logged time as superintendent at Kiawah's Turtle Point and Marsh Point before moving to the Charleston area.

HILTON HEAD, S.C. — **Steve Wright** is the new superintendent at the Long Cove Club here. Formerly head superintendent at Alauqua Country Club in Longwood, Fla., Wright is former chapter president of the Central Florida Golf Course Superintendents Association.

FLAGSTAFF, Ariz. — **Dan Devere** has accepted the head superintendent's position at Aspen Valley and Elden Hills here, formerly known as Fairfield and Continental Country Club. Devere had been superintendent at Silver Creek Golf Club in White Mountain. **Joe Traficano**, late of TPC Starpass, takes Devere's place at Silver Creek.

CORPUS CHRISTIE, Texas — **Sam Orozco**, formerly an assistant at Tucson (Ariz.) National Golf Club, has accepted the head golf course superintendent's position at King's Crossing here.

SUWANNE, Ga. — **Mike Martin** is the new head superintendent here at St. Marlo Golf Club.

OVERLAND PARK, Kan. — **August Lietzen**, formerly the head golf course superintendent at Overland Park Golf Club here, has accepted a position with Modern Distributing. He now heads up the Toro Fertilizer and Nutrition programs.

STOCKBRIDGE, Ga. — **Randy Ashton** has accepted the head golf course superintendent's position here at

Southern Golf Club. **Doug Cook**, formerly an assistant at Highland Country Club, joins Ashton at Southern.

CONWAY, S.C. — **Wally Dowe** has been promoted from assistant to head superintendent at Wild Wing Plantation's Avocet Course here. A 1990 graduate of Michigan State's Turfgrass Management Program, Dowe

joined Wild Wing in 1992 as an irrigation technician.

YOUNG HARRIS, Ga. — **Steve Gonyea** is on board as golf course superintendent of the Brasstown Valley facility, now under construction. The course is scheduled to open in June.

WILLIAMSBURG, Va. — **Scott Hoptry** is the new head superintendent at Williamsburg National Golf Club here.

JACKSON, Tenn. — **Everett Holzapfel** has been named the

head golf course superintendent here at Jackson Country Club

JONESBORO, Ga. — **Kevin Keppy** has been promoted to the position of head golf course superintendent at Pebble Creek Country Club.

WASHOE VALLEY, Nev. — **Tom Unruh** has been named head superintendent here at The Golf Club at Lightning W Ranch, a new Robert Muir Graves design. Unruh comes to Lightning W Ranch from Del Paso Country Club in

Sacramento, where he served as superintendent for 18 years.

SUN CITY WEST, Ariz. — **Joe Bornkessel** has been named head superintendent at Hillcrest Golf Course here. Bornkessel comes to Hillcrest from The Golf Club at Stone Creek in Paradise Valley.

TURNER, Ga. — **Richard Larimore** has accepted the head superintendent's position here at Turner Golf Club. Larimore is the former head superintendent at Stouffer's PineIsle Resort.



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The secret to ESN's innovative technology is the polymer membrane surrounding a high quality urea granule. Once exposed to moisture, the inner nitrogen remains encapsulated and will only be released when the surrounding temperature is sufficient for plant growth.

USGA laying ground work for lab accreditation

Continued from page 13

It will be very difficult to do, and who do we empower for this [deciding which labs get accredited]? Many labs aren't following the protocol. And many don't have the equipment to do so."

McWilliams suggested the USGA "back away from this whole lab issue and say, 'Listen, industry, You're all big boys. You're using all sorts of different laboratories. You

certainly don't need us to tell you who to use or who's qualified.

"Why does the USGA feel it has to make some sort of statement about the labs when, internally, they really don't have any qualifications, which means they're going to lay it off on somebody on the outside? Leave it alone. Forget about it. People know where to find us all."

Nevertheless, he added: "We

would support and be involved in any program that would responsibly advance any lab accreditation program as it relates to science and professional laboratory operations."

The Golf Course Builders Association of America two years ago instituted an accreditation procedure for builders. Adding soil-lab accreditation will make construction safer for

developers, Snow said.

"It will be more secure in getting good results from beginning to end," he said. "The lab is just one step. You have construction and other areas to go through where problems can occur. But the more factors you can take out of the equation, the better off you will be."

From the labs' standpoint, they will be more secure if



'I think it's bringing about a very positive change in the way things are done.'

— Norm Hummell

they must defend their work — if they are accredited. They must have a quality assurance program, and "if they get involved in a lawsuit, it will be a lot easier to defend their position and the quality of their work if they're accredited," Snow said. "It will help them as well as the client. I think everybody's going to win once we get it rolling."

"No question, there's going to be a significant cost involved," Hummel said, "from preparing the required documentation — the SOP [standard operating procedure] and QC [quality-control] manuals — to the up-front fees to pay for a consultant to come in your lab for two days and make sure things are being done, and the added record-keeping..."

"But, even though it's been a lot of work and hassle, I think it's bringing about a very positive change in the way things are done."

The USGA will set up an open meeting with AALA at the annual conference of the Golf Course Superintendents Association of America in San Francisco at the end of February.

"We want labs to feel comfortable with the idea, and provide them an opportunity to ask questions," Snow said.

Dealing with paperwork and other factors may take six months or more to accredit labs, he said, adding, "We will have some sort of phase-in period."

One outgrowth of the procedure is that the USGA will no longer list labs in its USGA Greens Specifications booklet itself. Instead, a sheet, which will be continually updated, will be inserted.

...

Because of continuing controversy over its specs, the USGA hired Hummel to study the soil labs involved in golf. Hummel's work led to specific procedures so that work between labs was more comparable — and exact.

The USGA sent "blind tests" to 13 labs and found the majority were very close on all soil characteristics — except pH, which disturbed Snow.

Hummel said the new test protocol has no test procedure for pH, but "maybe it should. There are a couple ways to do it. But that doesn't explain the disparity [of the blind tests]."

No other changes are planned, he added.

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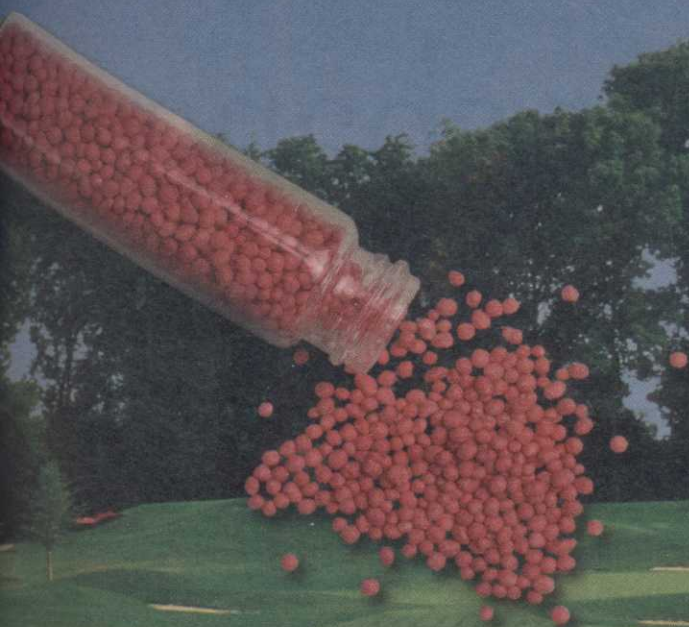
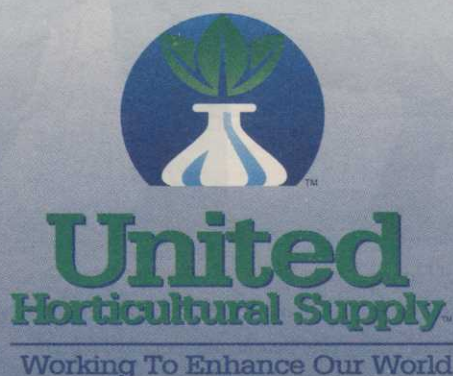
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West

SIERRA CHAPTER ELECTS BOWMAN

The Sierra Nevada Golf Course Superintendents Association (SNGCSA) has elected its officers and directors for the coming year.

Peter Bowman from Merced Hills Golf Club in Merced, Calif., was elected president. Bob Francischine of Micke Grove Golf Links in Lodi, Calif., was elected vice-president and Dave Laurie of Old Brockaway Golf Course in Kings Beach, Calif., was elected secretary-treasurer.

North Central

NEUMANN IS SUPER OF YEAR

The Nebraska Golf Course Superintendents Association (NGCSA) named Richard Neumann, superintendent at the Highlands Golf Course in Lincoln, as Nebraska Golf Course Superintendent of the Year for 1994.

Neumann was selected for his work at the new City of Lincoln municipal course, as well as for his contributions to the association.

The NGCSA has also elected officers for 1995. Neumann was chosen as president. Douglas Dykstra of the Pines Country Club in Valley was chosen vice president, and Alan Culver of Mahoney Golf Course in Lincoln was re-elected as secretary-treasurer.

Other members of the executive committee will be Gary Schaepe, Ron Ross of Hillcrest Country Club in Lincoln and Tom Baker of the Omaha Field Club.

HYBL HEADS NEW SLATE

The Heart of America Golf Course Superintendents Association has elected, for one-year terms, President Chuck Hybl of St. Joseph Country Club of St. Joseph, Mo., Vice President Jeff Eldridge of Deer Creek Golf Club, Overland Park, Kan., and Secretary-Treasurer Gary Higbie of Trails West Golf Club, Leavenworth, Kan.

Elected to two-year terms as members of the board of directors were Bill Bologna of Swope Memorial Golf Club in Kansas City, Mo.; Tyler Koch of Hodge Park Golf Club in Kansas City, Mo.; and Jon Kindlesparger of Alvarado Golf Club in Lawrence, Kan.

Also passed were two proposed bylaw changes which bring the HAGCSA's membership classifications in line with the Golf Course

Superintendents Association of America.

Northeast

PERMIT CENTER CREATED

BALTIMORE, Md. — The Maryland Department of the Environment (MDE) has created an Environmental Permits Service Center in an attempt to improve customer service for permits and other environmental regulatory issues.

The center opened in December. The acting director is Mitch McCalmon. He can be reached at 410-631-3772.

NY EXPO READIED

SUFFERN, N.Y. — The New York State Turfgrass Association (NYSTA) will hold its annual Turf and Grounds Exposition II at the Holiday Inn-Suffern on Feb. 1 and 2, for superintendents, athletic field managers, lawn and landscape managers, and anyone else involved in turfgrass and grounds management.

Thomas Hoogheem of the Monsanto Co. will give an update

on ground-water protection, pesticide containers, worker protection and right-to-know laws. Patricia Vittum of the University of Massachusetts and Robert Emmons of the SUNY will discuss turfgrass insects and diseases, respectively.

NY SCHOLARSHIPS PRESENTED

DELHI, N.Y. — Four golf industry majors at the State University College of Technology at Delhi have been awarded scholarships by the New York State Golf Association.

Seniors Sean Leahy, Drew Thompson, and Warren Welden

of East Meredith each received \$1,500 awards. Nathan Sentz, a freshman golf course operations major from New Paltz, was awarded \$500.

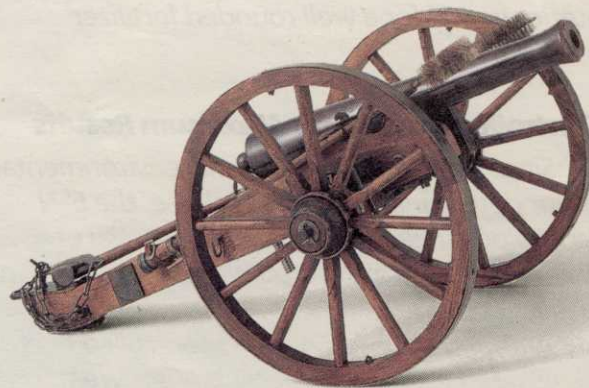
N.H. CONCLAVE SET

MANCHESTER, N.H. — The N.H. Turf Conference will be held Jan. 12 and 13, at the Center of N.H. Holiday Inn here. This year's two-day program features 14 seminars covering topics ranging from golf course design and restoration to environmental and ecological golf course management, turf practices and turf equipment maintenance.



The charge of Hannibal from Spain over the Alps into Italy set off a series of crushing defeats on Roman armies. Elephants helped power Hannibal's army over treacherous mountain terrain.

218 B.C.



The Charge of the Light Brigade during the Crimean War checked Russia's ambitions in Eastern Europe. The battle was immortalized by Alfred Lord Tennyson in the poem, "The Charge of the Light Brigade."

1854

Charges that changed



The next historic charge is up to you. Lead it on your golf course with the all-electric E-Plex™ greens mower. The revolutionary E-Plex operates emissions free and noise free. Say goodbye to turf damage due to hydraulic leaks. To complaints about noise. To pollution. To costly maintenance and repairs.

What do you sacrifice to enjoy all the benefits of the latest technology? Absolutely nothing. The E-Plex provides an exceptional quality of cut, maneuverability and performance*. You can actually increase your revenue with the E-Plex. Because you can mow earlier, you can start tee times earlier for additional rounds of golf.

Southeast

CAPE FEAR ORGANIZES

The Cape Fear Golf Course Superintendents Association is the newest affiliated chapter of the national GCSAA. The Cape Fear GCSA's application was approved by the GCSAA board of directors last summer. Cape Fear GCSA has about 50 members in North Carolina's



southern coastal area, including Wilmington. Alton Owen of Pine Valley Country Club is president of the new chapter.

ESODA LEADS GEORGIA CHAPTER

WATKINSVILLE, Ga. — The Georgia Golf Course Superintendents Association (GGCSA) board of directors held elections for 1994-95 Executive Committee officers and board members. They are Mark Esoda, president; Chuck Underwood, vice president; William Shirley, immediate past president; Jim Dusch, secretary; Buck Workman, treasurer; Sam

Crowe, Craig Ketelsen and Wade Thomas. Newly elected board members include Harold Franklin and Scott Johnson. Retiring GGCSA Board members are Mark Hoban and Bob Perry.

JENKINS CENTRAL FLA. PRESIDENT

Brian M. Jenkins of Dubsread Municipal Golf Course in Orlando has leaped from the secretary-treasurer position to president of the Central Florida Chapter of the Florida GCSA in the wake of resignations from President Chuck Blankenship and Vice

President Donald W. McCommon of Ventura Golf and Country Club in Orlando.

Blankenship also resigned his position at Ridgewood to pursue other interests in the industry.

The 1994 Field Day raised more than \$5,400 for turf research.

The Ft. Lauderdale research green and the FGCSA lobbyist each will receive a \$2,000 stipend from chapter funding.

STANDING COMMITTEES NAMED

The Central Florida Chapter has appointed committee chairmen, including Stuart

Leventhal, both membership and public relations; Hal Richburg, education; Brian Jenkins, finance; Scott Welder, nominations; Matt Bruns, golf; and Joe Ondo, membership services.

Mountains



GOLFEXPRESS UNVEILED

LAKEWOOD, Colo. — The GolfXpress, a four-wheel, single-rider golf car modified so that some competitors played directly from their golf car, was an exciting innovation to the recent Electric Mobility ADAG national tournament at Fox Hollow Golf Course.

The unique design allowed full access to the golf course, including putting from the vehicle.

Thomas T. Houston was named the 1994 honoree for outstanding contributions to the game of golf on behalf of disabled golfers. Vic Cullen of New York won the newly-established Eric Benson Memorial Competitor Award.

ARIZONA STUDENT HONORED

TUCSON, Ariz. — Frank Lister, a graduate turfgrass management student at the University of Arizona who has been working on the Karsten Turfgrass Research Program, was recently awarded a \$500 scholarship from the Cactus and Pine Golf Course Superintendents Association of Arizona.

Lister's research focuses on the use of wetting agents to promote better irrigation efficiency. He is in his last year of collecting data and presented his results at the 1994 National Agronomy Society of America meetings in Seattle, Wash.

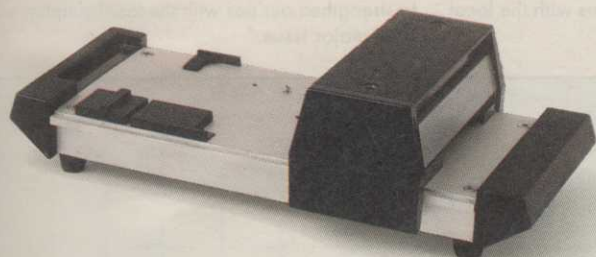
South Central



ARK. READIES FOR CONFERENCE

LITTLE ROCK, Ark. — The Arkansas Turfgrass Association will host its annual conference and trade show on Jan. 16 and 17, at the Arkansas Statehouse Convention Center and the Excelsior Hotel.

For more information contact Angie McSwain at 501-663-8810 or the Arkansas Turfgrass Association, Penthouse Suite, 1123 S. University, Little Rock, Ark. 72204.



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RANSOMES

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PRESIDENT

Name: Gary Grigg

Age: 53

Course: Naples (Fla.) National GC

Former head superintendent at: Shadow Glen GC, Olathe, Kan.; The Lodge of the Four Seasons, Lake of the Ozarks, Mo.; VP of Construction and Maintenance, Kindred Management Co., primarily at Ventana Canyon Country Club in Tucson, Ariz.

Years GCSAA member: 24

GCSAA posts: Current vice president; board member since 1989; chairman of scholarship and research, tournament, membership, finance, chapter relations, planning, conference and show committees; vice chairman of public relations committee; member of nominating, certification, developmental study advisory, fund raising, conference planning, seminar planning, and building committees.

Other associations: Past president of Southern Arizona and New Mexico GCSAs and Southwest Turfgrass Assoc.; board member of Heart of America GCSA; member of Everglades and Florida GCSAs; member of Florida Conservation, Texas Turfgrass and Southwest Turfgrass associations; former member of Northern California, Cactus and Pine, South Texas, Western Michigan, Northern Michigan and Ozark GCSAs.

Education: Bachelors degree in agriculture/entomology, Utah State Univ.; masters in agronomy, Michigan State Univ.

Family: Wife, Coleen; children, Jill, 28, Jared, 26, Aaron, 21, Ryan, 14.

Goal: "My No. 1 goal is to work hard at getting the message out that superintendents

Continued on next page



Gary Grigg

GCSAA Candidates At a Glance

(Directors and Vice President on pages 27, 28)

SECRETARY/TREASURER

Name: Paul McGinnis

Age: 43

Course: Union Hills Country Club, Sun City, Ariz.

Former head superintendent at: Palmbrook Country Club, Sun City; The Wigwam Country Club, The West Course, Litchfield Park, Ariz.

Years GCSAA member: 17

GCSAA posts: Board member since 1992; chairman of scholarship and research, tournament, publication and research committees; member of conference and show, planning, nominating and standards committees.

Other associations: Past president of Cactus & Pine GCSA; member of United States Golf Association Green Section Committee.

Education: Bachelor's degree in agricultural economics from Arizona State University.

Family: Wife, Kendra; children, Marci, 21; Kari, 19; Michelle, 17; Magen, 13.

Goal: "My goal is to continue the direction established by the GCSAA — listening to members in order to meet the ever-changing needs of a changing industry. The new executive staff is doing a great job. I bring a varied background in the resort, public and private club market to the board. I've been involved statewide in governmental relations, water rights and pesticides.



Paul McGinnis

Name: George Renault

Age: 46

Course: Burning Tree Club, Bethesda, Md.

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

Years GCSAA member: 17

GCSAA posts: Board of Director member since 1993; chairman of certification and government relations committees; vice chair of scholarship and research committee; eight-year voting delegate; member of federal Americans with Disabilities Act Golf Advisory Commission, Watson Fellowship Selection Committee and RISE government issues committee.

Other associations: Past president of Mid-Atlantic Association of GCS and Greater D.C. GCSA; past member University of Maryland Turf Advisory Committee and Maryland Turfgrass Council advisory committee; member of Maryland & Virginia turfgrass councils.

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

Family: Wife, Lucinda; children, George, 17, Lucy, 13.

Goal: "I can bring a continuation of my support and interest in the running of the GCSAA. Further improving communications with members and enhancing relations with the local chapters are my primary goals."



George Renault

Name: David Fearis

Age: 48

Course: Blue Hills CC, Kansas City, Mo.

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

Years GCSAA member: 27

GCSAA posts: Board of director member since 1993; chairman of education, public relations and curriculum review resource committees; vice chairman of certification, government relations and technical information resource committees; International Conference and Show speaker and session chairman; member of finance, public golf resource, association planning, magazine, ethics, nominating, standards and integrated pest management special risk committees; charter member Golden Tee Club.

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

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

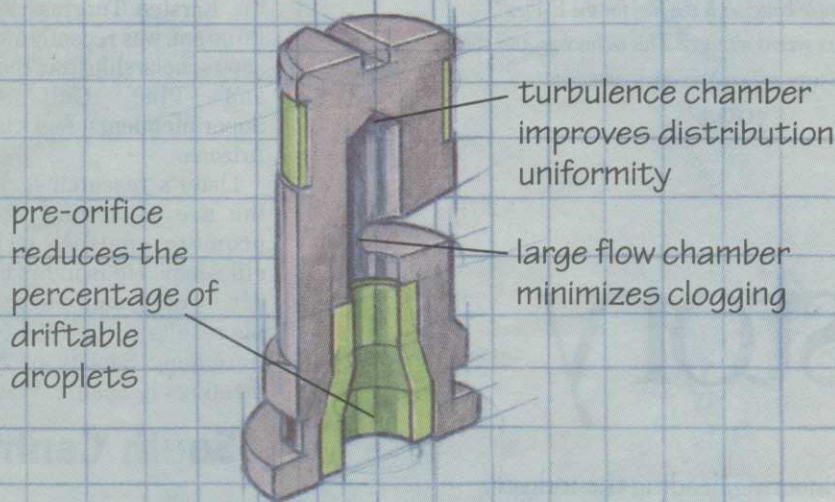
Family: Wife, Lynn; children, Blaise, 15.

Goal: "I've enjoyed my association with the GCSAA and been proud to represent its members. I love the profession. I don't want to be just a member of the association, I want to be an active member. Being a board member is one of the best ways to do that. I'm very positive about the changes the association has gone through the past year. We have a dynamic group in charge now."

"There will be several things to focus on the next few years. Most superintendents agree upgrading our professional image is a key. The environment will continue to be important, whether it's Clinton or whoever in charge. And continuing to strengthen our ties with the local chapters will be a major issue."



David Fearis



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BOARD MEMBER

Name: Tommy D. Witt
Age: 41

Course: Wynstone GC, North Barrington, Ill.

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

Years GCSAA member: 16

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

Other associations: Past president of Central Texas GCSA; immediate past president of Lone Star GCSA; past vice president of North Texas GCSA; chapter liaison and voting delegate for North Texas and Lone Star chapters; board member of Bentgrass Research Inc., North Texas and Lone Star GCSAs, Midwest and Chicago-Land Associations of GCS.

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

Family: Wife, Lorrie; Children, Seth, 7, Lauren, 6, Tanner, 3.

Goal: "I began playing golf at 6 and working on a course at 11. I'm committed to the game and improving the golf course superintendent profession. 1994 was a big year for the association with a new management team and staff. Now we need to stay focused on the environment, education, professional image enhancement, chapter relations and membership services."

Name: David Gourlay
Age: 38

Course: Club Summerlea Inc., Dorion, Quebec, Canada.

Former head superintendent at: Eagle Creek GC, Ottawa; Beacon Hall CC, Toronto; Ladies GC of Toronto.

Years GCSAA member: 15

GCSAA posts: Member of nominating, membership and standards committees; voting delegate for the Ontario GCSA.

Other associations: Past president of Ontario GCSA; board member of Ottawa Valley and Western GCSA; member of Canadian & Quebec GCSA.

Education: Bachelor's degree in agronomy, Texas A&M University; associate's degree in turf management, University of Guelph.

Family: Wife, Barbara; children, Lindsay, 10, Matt, 9.

Goal: "We have two primary things we need to deal with: the environment and the superintendent's image. Our environmental image over the years has not been that great. If we work on the environment, our image will surely improve. We must tackle both. I think I bring a thorough background to the job. I've worked at seven clubs: private, semi-private, public, equity. And I bring first-hand experience in dealing with environmental regulators, having spent six weeks in court discussing wetlands on a course we built in Ontario. My father was a superintendent, so I have the years of experience he passed on to me as well."



David Gourlay

Name: Michael Wallace
Age: 44

Course: Hop Meadow CC, Simsbury, Conn.

Former head superintendent at: Rockledge CC and Buena Vista GC, West Hartford, Conn.

Years GCSAA member: 17

GCSAA posts: Member of public relations and membership services committees; candidate at chapter relations annual meeting; member career development group; voting and alternate delegate.

Other associations:

Past president of Connecticut GCSA; member of Professional Pesticide Users of Connecticut.

Education: Associate's



Michael Wallace

degree in turfgrass management, University of Massachusetts.

Family: Children, Tye, 26; Grier, 24; Ian, 23; Sian, 20.

Goal: "I've enjoyed my association with the Connecticut chapter and helping the profession move forward. I'd like to do the same with the GCSAA. The career development group, for instance, is one area that can really help better service our members. While GCSAA can never guarantee all members obtain superintendent positions, we can make the tools available to help members improve themselves. I want to help make GCSAA a conduit through which the members can become more professional."

Name: Paul Dermott
Age: 49

Course: Oakdale Golf & CC, Downsview, Ontario, Canada

Former head superintendent at: Chinguacousy CC, Caledon Hills, Ontario; Islington GC, Toronto

Years GCSAA member: 26

GCSAA posts: Conference session chairman; conference speaker; conference panel member; voting delegate alternate; member of certification, membership, conference and show committees; member of Golden Tee Club.

Other associations: Past president Ontario GCSA; member Canadian GCSA, Western Ontario GCSA, Landscape Ontario; founding member and past president of



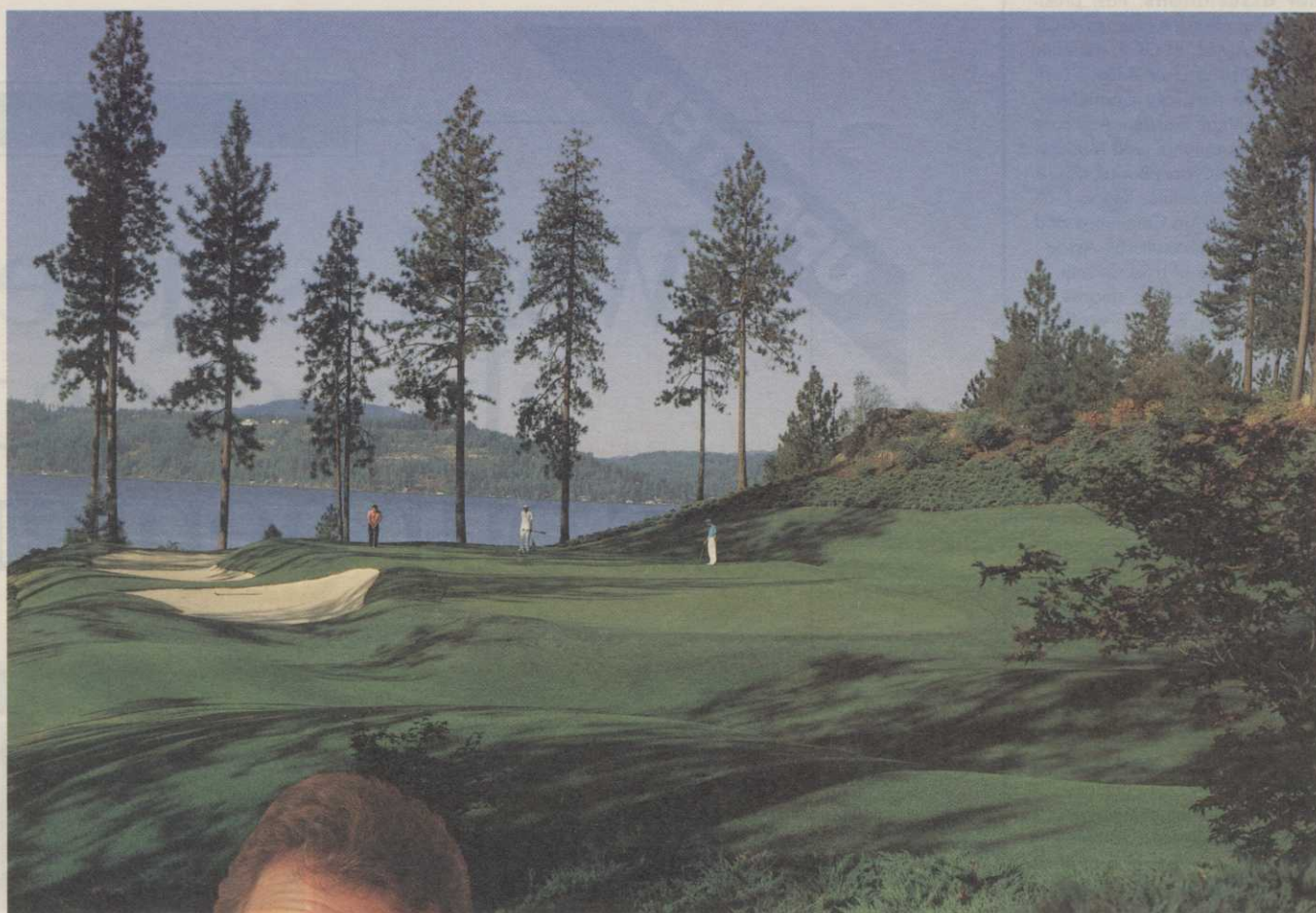
Paul Dermott

Ontario Turfgrass Research Foundation; founding chairman Ontario Turfgrass Symposium; advisor Guelph Turfgrass Institute.

Education: Associate degree in animal husbandry, University of Guelph; graduate of Pennsylvania State University two-year turfgrass program.

Family: Wife, Jacqueline; children Vincent, 29, Steve, 25, Lori-Ann, 23, Tanya, 23.

Goal: "I think I have something to offer the association, especially now that my children are grown and I have the time to devote to it. Our top priority should be to continue upgrading the professionalism of our members. I'm happy with the changes that have been made recently and the direction the association is moving."



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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 has recently joined the Senior PGA Tour.

VICE PRESIDENT

Name: Bruce Williams

Age: 45

Course: Bob O'Link GC, Highland Park, Ill.

Former head superintendent

at: In charge at Bob O'Link since 1979.

Years GCSAA member: 18

GCSAA posts: Board of director member since 1991; chairman of finance, industrial advisory, certification appeals and technological information services advisory committees; vice chairman of chapter relations resource group; member of seminar resource, conference and planning, CEU guidelines, certification and education, public relations, scholarship and research, finance and planning committees; government relations liaison to the board of directors.

Other associations: Past president of Chicagoland Assoc. of GCS and Midwest Assoc. of GCS; member of Chicago District Golf Assoc. Turfgrass Research Advisory Committee, Chicago Botanical Garden Advisory Committee, International Golf Museum and Hall of Fame Advisory Board, USGA Green Section Committee, Illinois Golf Hall of Fame Selection Committee and Northern Illinois Horticultural Assoc.; instructor at College of Lake County.

Education: Bachelor's degree in English and speech, Baldwin-Wallace College, Berea, Ohio; graduate of turfgrass management program, Michigan State.

Family: Wife, Roxanne; children, Blake, 13, Claire, 9, David, 6, Mary 1.

Goal: "We'll spend much of the coming year developing cooperative working arrangements with our chapters throughout the country. It's impor-



Bruce Williams

tant for the future of the national association to make sure the chapters have a loud voice in what happens. We're also working on further enhancing the image of the golf course superintendent. The television show on ESPN will let us give the superintendent's slant on what happens at the course and should have a positive impact on public opinion toward the role of the superintendent."

President's Environmental Award to Hiers

By MARK LESLIE

NAPLES, Fla. — It has been a remarkable journey the last few years for Tim Hiers. From superintendent at the environmentally friendly John's Island Club in Vero Beach to operating the country's first Audubon Signature Cooperative Sanctuary Golf Course at Collier's Reserve here, to winning the treasured President's Award for Environmental Leadership from the Golf Course Superintendents Association of America (GCSAA) — this has been a time of excitement.

Yet, Hiers, a member of the *Golf Course News* Advisory Board, would give credit elsewhere.



Tim Hiers

"Without sounding falsely humble, I have been in the right place at the right time," he said. "The accumulation of what I'm doing has been direction and guidance and experience from other superintendents — not books and magazines. It has not been from real-life experience and looking at examples of myriad superintendents who have done all this before. We just had the opportunity to try to embody most of those simultaneously."

The President's Award was created in 1992 and has only been presented to the Cape Cod Superintendents Association and Audubon Wildlife Sanc-

Continued on page 31

UPDATED

BENTGRASS

Word is spreading almost as fast as our bentgrasses.

Candidate Grigg

Continued from page 26

are responsible conservators of their golf courses. We're going to hit extra hard at the idea that we are the environmental good guys and to encourage our members to get out in the community to promote themselves. To help them, we'll try to deliver a proactive program demonstrating golf's environmental benefits that our members can use in their local communities.

"We'll continue to work hard at enhancing the professional image of the superintendent through a comprehensive and effective public relations program. We want a clearly defined government relations program that allows us to work effectively with Washington and to continue stressing strong chapter relations. We're also looking to reach the 15,000-member mark and bring in more public golf course members through an aggressive membership drive.

"As for what I bring to the job, I think I have a unique blend of daily superintendent knowledge and construction experience that has allowed me to develop ties with architects, builders and other allied associations. I also have an advanced agronomy degree and feel that I'm a good writer and speaker. That should help me represent the association.

"I came to Naples National three years ago knowing I was going to be very involved with the association into the foreseeable future. Dr. Charles Benton, the club president and one of its founders, let me know the membership was behind me 100 percent. I'm very grateful for their support."



Mr. S. Nakano, Greenskeeper
Kouraku Golf Club
Okayama, Japan



Garrett Deck, Golf Course Superintendent
The Harvest Golf Course
Kelowna, BC, Canada



Joseph M. Hahn, Golf Course Superintendent
Oak Hill Country Club
Rochester, New York



Gary Dempsey, Golf Course Superintendent
New South Wales Golf Club
Sydney, Australia



Mandel Brockington, G.C. Supt.
Diamante Country Club
Hot Springs, Arkansas

GCSAA honors troika for Distinguished Service

By MARK LESLIE

SAN FRANCISCO — The Golf Course Superintendents Association of America's (GCSAA) Distinguished Service Award could be named The Beyond the Call of Duty Award. Given for contributions advancing the superintendents' profession, the award this year will be presented here to Drs. Milt Engelke of Texas A&M University, Ali Harivandi of the University of California-Davis Cooperative Extension Service

and Michael Hurdzan (*see related story, page 30*), a golf course architect based in Columbus, Ohio.

"To me, it's what they do outside the scope of their job" that determines if a person is worthy of the honor, said Gary Grigg, GCSAA vice president and member of the board that voted on the honor. "We never ask Milt, for instance, to do anything. But he serves, speaks, teaches, and is a champion of the superintendent."

All three men were unanimous selections, Grigg said, adding

that a two-thirds vote is needed. A turfgrass breeder, Engelke has made vast advances in bentgrass, zoysiagrass and buffalograss. Harivandi, an extension specialist in environmental horticulture, has performed extensive applied research programs. But both, along with Hurdzan, went beyond the call, giving high amounts of time to local, regional and national turfgrass industry affairs.

Now they will reap a reward. As Harivandi said: "I am still basking in the glory of it. I am

really honored."

Engelke has been on the U.S. Golf Association's (USGA) Turfgrass Research Committee since 1984, as well as serving on the GCSAA's Technical Research Advisory Committee from 1987 to 1992 and now on its Research Committee.

"It has been an absolute pure joy working with GCSAA and with the quality of educational programs it has and the depth of its individual members," Engelke



Dr. Ali Harivandi



Dr. Milton Engelke

said. "Its education and certification programs are designed to improve the golf course superintendent and help him do a better job. I can embrace and support that wholeheartedly, and I have."

While sharing his knowledge through various educational outlets, Engelke has headed up breeding programs that have led to such bentgrasses as Cato and Crenshaw, prairie buffalograss and new zoysiagrasses.

Pointing to the financial support superintendents associations as well as the USGA and private corporations have given turf research at Texas A&M and elsewhere, Engelke said: "It is truly a marriage of associations, academia and industry."

Prairie buffalograss is the first to be put on the market as low-maintenance buffalograss.

Cato and Crenshaw are "the first significant steps toward putting good genetics into bentgrass development as far as A&M is concerned, and giving the superintendents stronger tools to work with," Engelke said.

And, he added: "Very soon, you will see a marked change in the zoysiagrass market. Some new vegetative-type zoysias we will be releasing should impact superintendents' management requirements, the options they have available, as well as sports turf and parks and recreation people and homeowners..."

"They are more compatible with natural environmental conditions but have much faster production time, much longer color retention, less maintenance and lower water requirements than even Meyer zoysia has."

...

Meanwhile, from his headquarters in Hayward, Harivandi has work in two areas vital to California — use of effluent water and reducing green clippings.

Because of his PhD in turfgrass management with emphasis on soil and water salinity, Harivandi was perfectly situated several years ago when the use of effluent came on the scene, particularly affecting golf courses. He published a booklet through the university and started working with people on the issue and gathering more information all the time. In 1994 he taught the first one-day seminar on wastewater use at the GCSAA conference in Dallas. It will be repeated this year.

Today, he receives calls from the world over seeking his advice. His recommendation? "Every plant produces a different quality water," Harivandi said. "You may or may not have prob-

Continued on page 31

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Glenwood, Maryland



Mike Brisbois, Golf Course Superintendent
Chateau Elan-Legends Course
Braselton, Georgia



Preston Maxey, Golf Course Superintendent
Decatur Country Club
Decatur, Alabama

It's unanimous: GCSAA honors Hurdzan

By MARK LESLIE

Coincidence does not come into play here. Ask golf course builders which architect is most knowledgeable about the maintenance complex, environmental issues and the importance of bringing a superintendent onboard a project early, and your answer is often is Mike Hurdzan. Ask the Golf Course Superintendents Association of America (GCSAA) who is getting its Distinguished Service Award this year and the lone

architect's name is announced: Mike Hurdzan. And what was the GCSAA board's vote for approval? Unanimous.

"Mike received the award because of his unselfishness with our members," said Gary Grigg, GCSAA vice president and the superintendent at Naples (Fla.) National Golf Club, where he worked hand in glove with Hurdzan. Speaking of Hurdzan's effective-



Dr. Michael Hurdzan

ness in speaking at superintendents' conferences, Grigg added, "First, he used to be a superintendent, so he fully understands it. Second, he's an agronomist, so he fully understands the agronomy, the drainage problems, everything from a superintendent's viewpoint."

Dr. Michael Hurdzan's history, in fact, reads: landscape business owner, five years;

greenkeeper, nine years; superintendent, two years; and course architect, 23 years. He earned a bachelor's degree in turfgrass management from Ohio State University, and master's degree in turfgrass physiology and PhD in environmental plant physiology studies from the University of Vermont.

A past president of the American Society of Golf Course Architects, sought-after speaker at turf conferences, and editorial adviser to *Golf Course News*, he was the Ohio Turfgrass Foundation's Man of the Year in 1988.

But the background in course

maintenance stands as the foundation of his career in golf. "I always knew I wanted to be a golf course architect," he said. "I didn't see how you could design one efficiently if you didn't know how to maintain one."

Winning the Distinguished Service Award, he said, is of particular importance to him because: "I have the utmost respect for the golf course superintendent. The superintendent is truly where the rubber meets the road. He stands between the golfer, who is the real critic, and the builders and architects, who are simply the guys putting it out there. He can make us look real good or not so good. He is in that pressure cooker every day."

The *Golf Course News* survey of course builders that spurred their recognition of Hurdzan asked:

- Which architect best understands the importance of the maintenance facility/complex?
- Which architect best understands the importance of having a superintendent on board early in a project?
- Who is most conscious of the environment?

"The single most important factor in golf course maintenance is hiring the superintendent. Second is giving him the right tools. The maintenance facility is definitely top among the right tools," Hurdzan said. "First, it is the central focus for the operations. Second, it needs to be environmentally correct — from EPA and hazardous materials views, and as a safe work environment."

The superintendent should have a major hand in designing the facility, which "takes a great deal of introspection," he said. "What they should be thinking about is fire walls, vehicular movement, hydraulic lifts, drains, that sort of thing. And the superintendent should be the one with the major input."

Hurdzan Design Group always asks its clients to hire the superintendent as early as possible. "I don't care if the superintendent is hired before us, but he should be brought on absolutely as early as possible," Hurdzan said. "Then it is his job to learn everything about that ground — soils, vegetation, drainage, climate, EPA laws and regulations that apply to that site, ground water — everything. And if somebody in the world knows more, he hasn't done his job."

Saying his training in golf course maintenance is "either a blessing or a curse," Hurdzan explained that 12 years ago he stepped into what was then a void as a defender of golf in the realm of environmental debate. An environmental innovator in design and construction, he said of his debate with environmental activists: "I see myself as a facilitator, not an environmental genius. I have enough background and experience that I know who to turn to. If someone gives me a negative environmental answer I know enough to question it."

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Supers salute Hiers

Continued from page 28

tuary Program for Golf Courses administered by the New York Audubon Society in concert with the U.S. Golf Association. The recipient is chosen by the GC-SAA board of directors based on exceptional environmental contributions to the game of golf — contributions that exemplify superintendents' image as stewards of the land. It will be presented to Hiers at the opening ceremonies of the GCSAA International Conference and Show in San Francisco.

William Timothy (Tim) Hiers, a certified golf course superintendent, has fought for years to illustrate that superintendents are environmentalists of the first degree. Now at Collier's Reserve in Naples, Fla., the first Audubon Signature facility and a worldwide model of environmental excellence, he received the first-ever John James Audubon Steward Award and the Florida Region Environmental Steward Award last year.

A member of the GCSAA Government Relations Committee and co-chairman of the Florida Turfgrass Associations External Affairs Committee, he was recently named the Florida Golf Course Superintendents Association's government liaison.

Hiers has actively presented the case for golf courses regionally with tours for schoolchildren, seminars and local speaking engagements.

"I can tell you in individual categories where other superintendents have done better than we have," said Hiers. "That's where I got a lot of the fodder for doing this. And if it had not been for a company like Collier Enterprises and someone like Jeff Birr, who are committed to giving me that opportunity and then backing me up with the necessary resources, we wouldn't be talking. Collier Enterprises was committed to this as much as we were. You have to have not only financial, but moral support."

He also credited his staff, Collier's architect, Arthur Hills of Toledo, Ohio, and his lead designer, Mike Dasher.

Performing the work for the Signature Program is a money-saver, he said, pointing to much lower costs for electricity, pesticides, fuel and manpower.

"It is good for the game, good for the environment and good for business," Hiers said.

Having completed the Collier's Reserve project, Hiers said he could do it "20 percent better a second time."

Passing these tips along to the industry, and spreading the good word about golf courses to the general public are next on Hiers' agenda. He has speaking engagements scheduled at turf industry events, and is constantly addressing schools and civic organizations. He also leads schoolchildren on tours of Collier's Reserve, GOLF COURSE NEWS

because "observation is worth a lot more than dissertation."

"As long as we're involved, we can help pass laws that make sense. But as long as we have politicians and people who label themselves as environmentalists writing laws, they are always going to be superfluous, extreme, capricious and counterproductive," he said. "Superintendents have been and will continue to be the leaders in many of these [environmental] areas. We're in the trenches. We're the ones who have to deal with the regulators and the fire marshals, EPA and club members."

Harivandi & Engelke

Continued from page 29

lems... Superintendents need to analyze the water and evaluate its suitability for irrigating their golf course based on the type of grass, plants and soil they have. That is the first step.

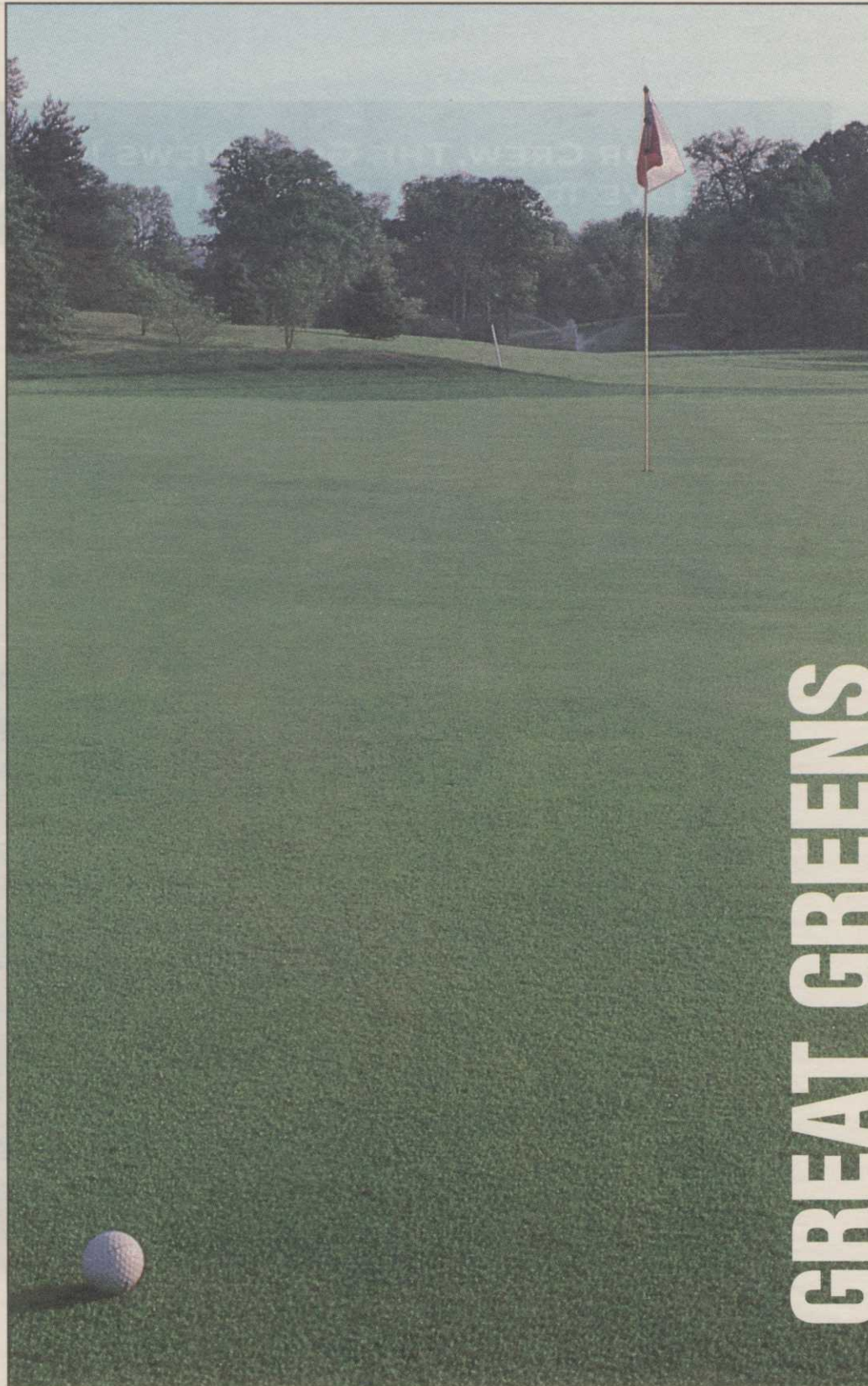
"If, indeed, they have very low-quality water, they must think of remedies and there are many ways to deal with that: such as blend with a better quality water or grow salt-tolerant grasses" or inject acid, or gypsum or another chemical into the irrigation system.

Harivandi is also spearheading research projects to reduce green waste, especially grass clippings. A law was passed in California in 1989

which requires all municipalities to reduce solid waste by 25 by 1995, and 50 percent by 2000.

The Alameda County specialist found that mulch mowers are a great help. Also, he said, "You can use slower-growth grasses, apply more effective growth regulators with not much toxicity, use recycling mowers and manipulate your fertilization program to slow growth. The combination will reduce the amount of clippings tremendously. You can basically eliminate the grass clippings."

The 1982 and 1992 recipient of the Northern California Turfgrass Council's Research and Education Award, Harivandi was the GCSA of Northern California's selection for its Distinguished Service Award in 1990.



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CIRCLE #127

GCSAA Notebook

Continued from page 13

of New York State; Paulette Pyle, director of grassroots for Oregonians for Food and Shelter; and a senior official from the U.S. Environmental Protection Agency. GCSAA President Joseph G. Baidy will moderate the panel, which will discuss how media and the public perception are molded.

Another session has been added to the GCSAA conference schedule and will cover "Golf Property Economics from the Appraiser/Analyst Perspective."

Presented by the Society of Golf Appraisers (SGA), the 1-3 p.m. session on Feb. 25 will involve a brief presentation of the physical and economic issues affecting the valuation of golf properties, followed by an open forum. Speakers will be SGA President Laurence A. Hirsch, Vice President Sam Hines, Secretary Carl Schultz and Director David J. Yerke.

The GCSAA has announced the appointment of several managers to its headquarters staff:

Charles M. Borman has been hired as membership manager. **Brad Short** has been hired as government relations manager. **Kim Heck** has been hired as GCSAA's first career development manager and started work Nov. 1, 1994. **Burke Beeler** has been hired as development manager. Former GCSAA Membership Manager **Jennifer McCaughey** has been named systems manager of GCSAA's Central Services department, where she will work on management information systems, database management and training.

Gary Grigg, superintendent at Naples (Fla.) National Golf Club, has been nominated for the presidency of GCSAA. The election of officers and directors will take place Feb. 27 during the GCSAA's annual Conference and Show in San Francisco (For thumbnail sketches of all those standing for GCSAA office, see pages 26-28).

The West Virginia Golf Course Superintendents Association recently donated \$5,000 to the GCSAA Foundation to support research on health and safety issues.

As a donor of \$5,000 or more, the West Virginia association will be honored as part of the Platinum Tee Club at the GCSAA show in San Francisco

The number of active superintendents certified by the GCSAA has reached 1,400 for the first-time in the history of the 23-year-old program.

The 1,400 superintendents holding the title of Certified Golf Course Superintendent (CGCS) represent about 20 percent of the association's Class A membership.

Students pursuing careers in golf course management recently got a boost from a \$40,000 donation to the GCSAA from the Metedeconk National Golf Club of Jackson, N.J.

The donation was derived from the club's annual Robert Trent Jones Invitational Team Championship. It will go into the GCSAA Foundation's Robert Trent Jones Endowment, which provides scholarships for outstanding students pursuing careers in golf course management. The fund currently stands at more than \$600,000.

Metedeconk, with its Robert Trent Jones-designed course, has raised \$200,000 for the endowment in the past six years.

The GCSAA has formed a blue-ribbon committee to try to remain environmentally proactive and to identify research priorities.

The GCSAA's Research Committee has identified agronomic research; the environment; health and safety; and business and operational issues as four major areas of concern.

The committee, chaired by GCSAA Director Paul McGinnis,

is made up mainly of member superintendents and turfgrass researchers.

The GCSAA's Career Development Resource Group has developed several suggestions to improve employer education, job-seeking skills and tools and career guidance and counseling.

Some of the suggestions are: Improving the GCSAA's Employment Referral Service; improving the GCSAA's Employment Resources Kit; improving the GCSAA's Salary Survey; and changing the purpose and direction of The Leader Board, the

GCSAA's club and course leader-directed newsletter.

The group discussed changing the newsletter from a subscription-based publication to one free of charge to every golf course with a GCSAA member.

A new Historical Preservation Resource Group has been formed by the GCSAA to preserve the history and evolution of the superintendent and the job of maintaining a golf course. A book on the GCSAA's history is already planned, and research is underway which could eventually be turned into exhibits and displays.

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Rollers, attachments take their place in maintenance program

Turf rollers are becoming an increasingly important maintenance tool as golfers demand ever-faster greens speeds and cutting heights reach dangerously low levels. Rollers are used prior to mowing and during grow in to increase speeds and avoid scalping. They can be used following greens aeration to more speedily return them to puttable condition. In some cases, they can be used after topdressing to work the sand through the turf.

Many companies offer turf rollers for maintaining greens. Among them are the following firms:

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CheTech Company — 800-228-8784
Emrex Inc. — 717-288-9360
Farber Bag & Supply Co. — 319-583-6304
Friend Turf Equipment — 800-777-2936

Gandy Company — 800-443-2476
Jacobsen Div. of Textron Inc. — 414-637-6711
Multitynes Ltd. — 416-520-4845
Newlon Bowls, Tru Turf Equipment Division — 805-871-0213
Pacific Equipment & Irrigation Inc. — 909-594-5811
Partac Peat Corp. — 800-247-2326
Precision Small Engine Co. — 305-974-1960
Salsco Inc. — 203-271-1682
SISIS Inc. — 904-733-9715
Smithco Inc. — 215-688-4009
The Toro Co. — 612-888-8801
Turf Care Products Inc. — 800-282-4792
Turflite Inc. — 800-443-8506
Wood Bay Enterprises Inc. — 800-661-4942

Manufacturers positioned for onset of electric models

By PETER BLAIS

The introduction of the electric riding greens mower is the most talked-about technology to hit the greens mower market in the past year.

Ransomes began full-scale production of its E-Plex in late 1994. **Jacobsen**, as it did a year ago, will demonstrate its prototype at the upcoming Golf Course Superintendents Association of America International Confer-

ence and Show in San Francisco and begin selling units in early 1996. **John Deere**, **Toro** and **Bunton** are rumored to be working on electric riders.

As with any innovative new product, questions abound. Those concerning electric riders include, "Will the batteries remain charged long enough to mow greens in hilly terrain?" and "How will the units operate in cold weather on Northern courses?"

"As a concept, it's an interesting one. But we'll have to take a look at what's out there and see what they can do before we get too involved," said Clair Peterson, Deere's advertising and promotions manager.

The E-Plex hit the market on a commercial basis in early November, according to Ransomes spokesman Tom Mentcer. While no specific sales figures were yet available, Mentcer said the E-Plex had generated "a lot of excitement" during demonstrations at golf courses and trade shows. Demonstrations-to-sales ratios were running a "very healthy" 3-to-2 (three demonstrations for every two units sold), he added.

"Superintendents already dealing or concerned about having to face noise ordinances were particularly interested," Mentcer said.

Sales are also strong for the Greensplex 160, a more traditional fossil fuel-driven mower introduced a year ago, the Ransomes spokesman said.

Jacobsen will be showing off a slightly revised version of its proposed electric rider in San Francisco, according to company spokesman John Mielke. The initial unit has been beefed up from a 36-volt to a 48-volt system. Other revisions will be worked in before Jacobsen moves into full production in early 1996, Mielke added.

"We don't see any disadvantage to being second into the market," the Jake executive said. "We're hoping to come out with some better features [than Ransomes]. Once our unit is in the field, we hope to be No. 1 before long."

Jacobsen has five models of traditional walking greens mowers and three riders. The walking mowers include the two- and four-cycle PGM models and the 18-, 22- and 26-inch Greens King units. The 18-inch (designed for undulating greens) and 26-inch (designed for collars, aprons and tees) models are relatively new to the marketplace.

"We're going to OPC [Operator Presence Controls] on our walk behinds," said Mielke of the handle-mounted bar that must be engaged before the mower will run.

Continued on page 34

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GREENS MOWERS

Manufacturers take electric trend seriously

Continued from page 33

Jake introduced its Greens King IV rider with a 16-hp powered Briggs & Stratton Vanguard engine this past fall. Greens King IVs are also offered with a gas-powered, 16 1/2-hp Kohler engine and a 16 1/2-hp Kubota diesel.

Asked if Toro was working on an electric rider or any new riding greens mower, Commercial Products Division Marketing Manager Helmut Ullrich would only say, "We have a new product that will be on display at the show in response to the competition."

Meanwhile, Toro has reintroduced a three-wheel drive rider, the Greensmaster 3100-3WD, with improved traction allowing operators to reach elevated greens or hilly areas. Like its parent, the two-wheel-drive Greensmaster 3100, the new rider features Toro's Turf Guardian Leak Detector for preventing turf damage from hydraulic oil leaks.

In the walking line, Toro will also introduce the improved GR1000 with a smoother clutch and other improvements. The company introduced its GR500 walkers two years ago.

John Deere is updating its standard bearer, the Model 22 Walking Greens Mower, with the improved Model 220. "We took the basic unit, tried to keep the good things and improve on those things we could," Peterson said.

The major improvement is the addition

of an operator presence safety system similar to the operator-controlled bar that must be engaged for most consumer lawn mowers to operate. Other changes include a more powerful overhead valve system; an 11-blade reel increasing the frequency of clip; redesigned controls for more convenient operation; and durability improvements.

"We've retained the external split differential system that allowed the 22 to track so well," said Peterson, adding that the updated unit should be in full production by the GCSAA show.

Deere also manufactures the 2243 Triplex in gas and diesel. One of its major attributes, Peterson said, is the cutting unit's offset design allowing it to groom greens in opposite directions from day to day, thereby reducing compaction.

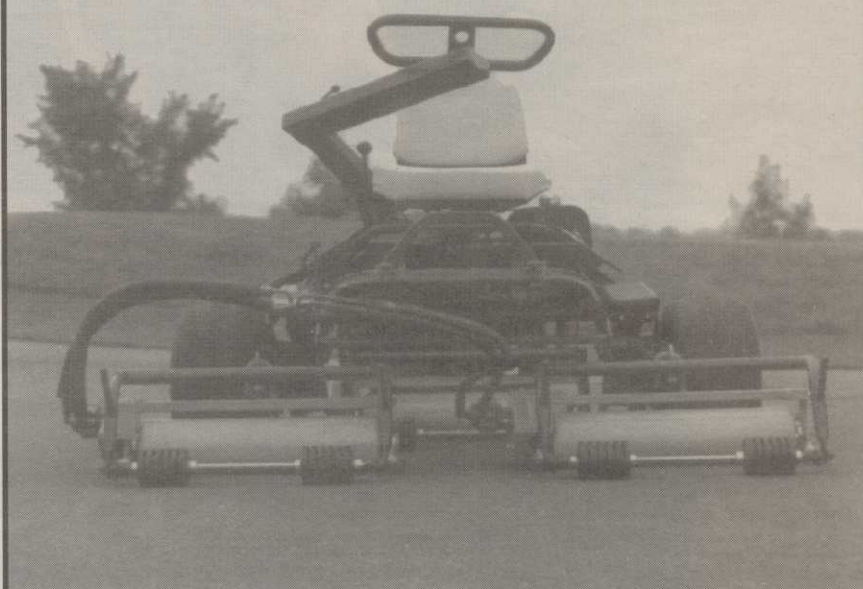
Bunton is sticking with its tried-and-true models in 1995, according to Gary Shampeny, vice president of sales and marketing.

The Louisville, Ky.-based firm offers 19-, 22- and 26-inch walk-behind GS models. The BG61L lightweight triplex riding greens mower is available with Kohler or Briggs & Stratton gas-powered engines and a Kubota diesel motor.

"We also have an optional three-wheel drive unit," Shampeny said. "The technology came out of Japan where they have a lot of hilly slopes. It's great for getting on and off severely sloped greens."

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BRIEFS



NGF PROMOTES FRANK

JUPITER, Fla. — Barry S. Frank, 36, has been named manager of NGF Consulting Inc., a subsidiary of the National Golf Foundation specializing in feasibility and operational studies for planned and existing golf facilities. Frank will direct five other consultants for NGF Consulting, which also offers acquisition/due diligence studies for investors and lending institutions.

DONALD ROSS TREE DEDICATED

ROCHESTER, N.Y. — Oak Hill Country Club, site of the 1996 Ryder Cup, has dedicated a tree on its Hill of Fame to honor famed golf course architect Donald Ross. The Hill of Fame, located on the 13th hole, memorializes golf legends by dedicating trees in their honor. Ross designed more than 400 golf courses during his career, including Oak Hill, Pinehurst and Inverness. Mrs. Dale Shapiro, a granddaughter of Ross, attended the ceremony.

HARBOTTLE BREAKS GROUND

STEVENSON, Calif. — Ground has been broken here on the Stevenson Ranch Savannah Course. The 7,000-yard daily-fee track, designed by John Harbottle and George Kelley, is the first 18 holes of a planned 36-hole project by The Lurie Company and GHK Development. Construction is scheduled to be completed by the summer of 1995.



John Harbottle

ST. LOUIS ADDS COMMUNITY

ST. LOUIS, Mo. — Conrad Properties Co. has teamed with three The Jones Co., Meyer Homes and McKelvey Homes to develop St. Louis's newest golf community. The proposed 390-acre site will have 560 homes and an 18-hole golf course with a learning center. The course will be an upscale daily-fee facility. The project is estimated at \$4.5 million. John C. Allen has designed the course. Construction of the clubhouse began in November, with completion expected in time for a course opening in April or May.

CYPRESS LAKES OPENS EXECUTIVE

LAKE LAND, Fla. — Cypress Lakes, named the number one community in the U.S. by the Manufactured Housing Congress, has completed and opened its new executive golf course. The 3,680-yard course, designed by Chip Powell of Powell Golf Design, winds through and around numerous cypress hammocks.

Mississippi's coast eyed by developers

By PETER BLAIS

GULFPORT, Miss. — Local officials expect a developer to announce plans this month to build one or two golf courses along the Mississippi coast, a move that will help diversify the area's casino gaming-dominated economy.

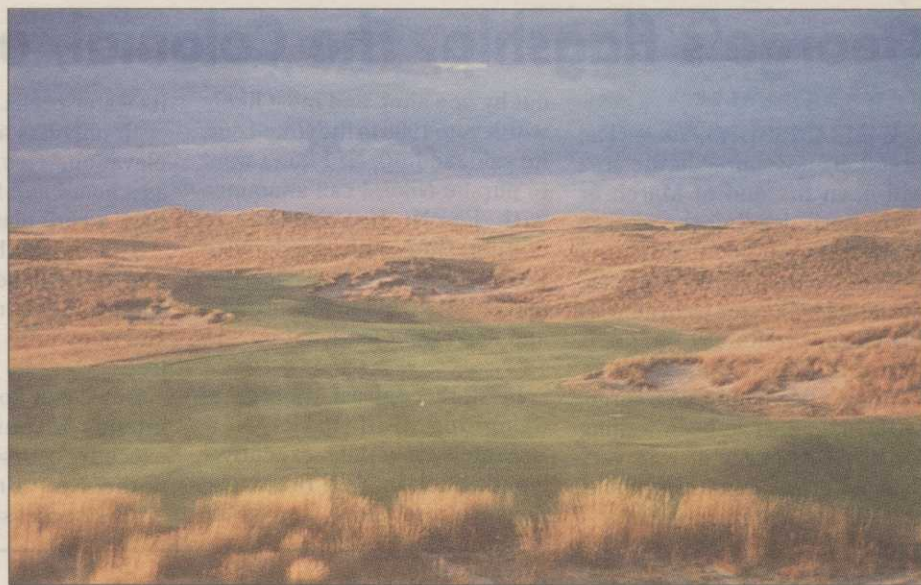
"We've had three groups looking at the marketplace so far and expect three more this month," consultant Donald Wizeman said in early December.

"One group wanted to buy an existing facility and a second was still looking for financing. The third group proposed taking two of the six primary sites we want to develop and would like right of first refusal on the other four. We're negotiating right now and I expect something to be signed by the end of January."

Harrison County Development Commission Executive Director Michael Olivier said: "We're looking at \$4 million to \$5 million signature courses. We need some good tracks for the area to emerge as a major golf destination. We hope to have five or six projects get underway this year and be on line sometime in 1996."

As reported in the August issue of *Golf Course News*, the Harrison

Continued on page 41



EARLY FAVORITES?

Golfers everywhere are already talking about where these two golf courses will be rated in the 1995 polls. Owners of Sand Hills in Nebraska, top, and the Links of North Dakota will have to wait to see. Ben Crenshaw and Bill Coore designed the Nebraska track out of that property's sand hills, while Stephen Kay tooled the North Dakota 18 out of the Badlands. For more on *The Ratings Game*, see p. 44-46.

Florida Cabinet nixes Ross course in favor of park

By MARK LESLIE

TALLAHASSEE, Fla. — Jacksonville citizens, city councilors, state legislators and golfers lost a major vote by a "lame-duck" state Cabinet, which unanimously voted to retain Ft. George Island exclusively as a state park.

Jacksonville area citizens, who overwhelmingly support reclaiming Ft.

George Island Golf Club, now must hope the new Cabinet will listen to them.

Gov. Lawton Chiles and the Cabinet voted unanimously on Dec. 13 to keep the golf course closed, retaining the entire 500-acre island as a state park. The Jacksonville City Council had set aside \$2 million to refurbish the Donald Ross-designed golf course, and support was

strong from citizens who pointed out that merely 67 acres would be maintained.

But after 20 minutes of speeches from both sides, including opponents Friends of Fort George Island and the Florida Audubon Society, the governor and Cabinet voted without debate.

"I'm still in shock," said proponent John

Continued on page 38

Jack Kidwell: 'Retire' not in his vocabulary

QA

Scratch golfer, Class A golf professional, golf course superintendent and award-winning designer, Jack Kidwell has been one of the most prominent, knowledgeable and respected men in Ohio golf for the past six decades. Kidwell, now in his mid-'70s and living in Columbus, is a former member of the PGA, a past president and lifetime fellow of both the American Society of Golf Course Architects and Golf Course Superintendents Association of America. He started caddying at age 7, worked on a grounds crew at 16, bought the nine-hole Beacon Light Golf Course with his father and ran it at 19, and, in 1958, designed his first 18-hole course at 39. Since then he's designed or renovated more than 100 courses. His design practice has since been bought out by protégé Dr. Michael Hurdzan, but he remains active.



Jack Kidwell

Golf Course News: Did your early experiences with golf, i.e. as a caddie in the 1920s) shape your ideas about golf and golf course design?

Jack Kidwell: I'm from a different age than golf today... The changes in golf have been so dramatic I think sometimes I've

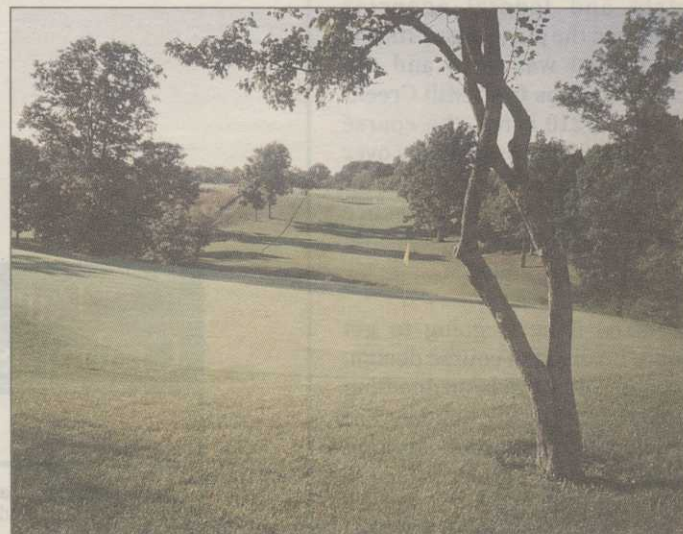


Photo by Brian Morgan

A Jack Kidwell creation — Hickory Hills in Columbus, Ohio.

been left behind. I've done a lot of work that's been well accepted but I do find it hard to think of spending \$8, \$10, \$20 million to build a golf course. All I remember about my caddy days was that it was hotter than blue blazes and I was tired. I do think I did learn a lot about human character. A lot of fellas that play golf show what they're made of when they're playing.

GCN: When did you start playing golf?

Continued on page 40

George's flagship, The Colonial, opens

By MARK LESLIE

WILLIAMSBURG, Va. — The first daily-fee course in the area will open the end of March or early April, leading the charge in the new golf boom here.

The Colonial Golf Course, designed by Lester George with PGA Tour pro Robert Wrenn, is pure golf, with no housing.

"It's my flagship," said George, of Richmond. "I've been waiting for three years for it. I do very detailed drawings of every hole, and we hit 99 percent of what I wanted."

The Colonial is Wrenn's first design involvement, and he made 50 to 75 visits to the site, flagging clearing limits and "getting stuck up to my waist in mud," he said.

"Robert was an extra set of eyes," George said. "We got a very realistic feel for the golf course while building it. We got some ideas that improved the course during construction."

Set 42 feet above sea level and boasting high ridges with deep ravines, the site afforded "absolutely perfect transitional golf terrain," George said.

"It could be called The Natural, not The Colonial," he said. "We moved less than 100,000 yards of dirt on 21 holes, which includes a three-hole practice loop."

"The key on that golf course," Wrenn said, "is for golfers to play from the correct set of tees. If they do so, they should enjoy the course and play to their handicap. But because of the natural terrain and forced carries (even though those carries are only 75 yards), if you play from the wrong tees it will stretch you."

George said the project could be used as a case study for golf development in Chesapeake Bay. Approximately 5,000 feet of the property are on a tidal marsh in the bay. Three holes required exceptions from the local wetlands board, and a half dozen state and federal agencies reviewed the plans. Also, a three-acre pond was built and the course pumps from Mill Creek.

Set on 210 acres, the course covers 4,579 to 6,908 yards over five sets of tees.

The facility boasts a practice area, teaching center and complete clubhouse.

Asked if he is going to get more involved in course design, Wrenn said: "I've been doodling holes since grade school. I've enjoyed it and enjoyed working with Lester. The problem is twofold: I must figure out my career path, how much I want to play and to stay at home with the family; and how much demand there will be for my design services. I can't jump into another career if there is not enough demand. I'm in a very critical time in my playing career."

He missed qualifying school

cut by one shot, and most likely will devote 1995 to the Nike Tour, he said, adding: "If I don't want to pursue Nike, I can announce with ESPN. If I do that in conjunction with work with Lester, I can change career paths. But I feel I'm playing well and don't want to give it up."

In stark contrast, George is designing Golf Parks New Braunfels, a public executive-length track in New Braunfels, Texas, a resort town known for

its water parks.

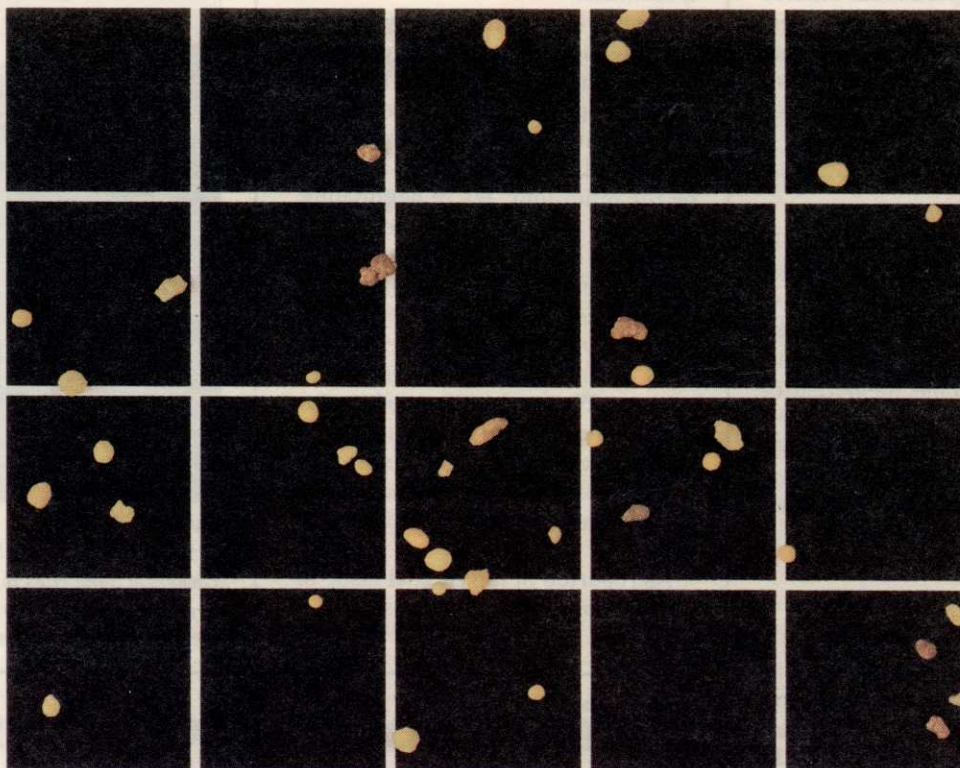
"It only has about four feet of elevation," George said. "It's flat as a board and has one tree. We have a very blank easel."

To liven it up, builders will move a lot of dirt, build 10 acres of lakes and plant exotic prairie grasses and mesquite and hackberry trees.

Developer Rob Puetz of Austin intends to build four or five executive courses at various sites if the New Braunfels project proves successful.



The Colonial could be called The Natural, say Lester George and Robert Wrenn.



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Mark McCumber tops off sizzling Tour year with some TPC icing

By MARK LESLIE

CORAL SPRINGS, Fla. — Westinghouse division Coral Ridge Properties, the city of Coral Springs and the Tournament Players Club have announced a new development here involving a daily-fee golf course that will host the Honda Classic for at least the next 25 years.

The project is "a nice marriage" between everybody involved, said McCumber Golf Design architect Mike Beebe,

whose boss, Mark McCumber, has some very personal interest in it.

Coming off a three-victory season culminating in the Tour Championship on the PGA Tour, McCumber "is real excited" by the project, called TPC at Heron Bay, Beebe said. "Not only is it a high-profile design job, but it's one his playing peers will be evaluating over the years."

A course architect before joining the Tour, McCumber "is always very involved in our

projects, but even more so in this one," Beebe added.

Coral Ridge Properties will develop the course, clubhouse and related housing, while the city will build a 30,000-square-foot conference center and, later, a 300-room resort hotel. The TPC will manage the course, which will host its first Honda Classic in 1996. McCumber plans to have the golf course grassed out by June and a soft opening in November or December.

"This is very exciting news for the company and the community," said Roy W. Ramsey, executive vice president and general manager of Coral Ridge Properties, which is the founder and primary developer of Coral Springs.

It will not be a stadium course, but "spectator friendly, with significant mounding and spectator areas," Beebe said.

One million cubic yards of dirt will be moved since the course sits on 210 acres that are "as flat

as a table — a pasture, no trees, and just a channel and berm away from the Everglades," he said.

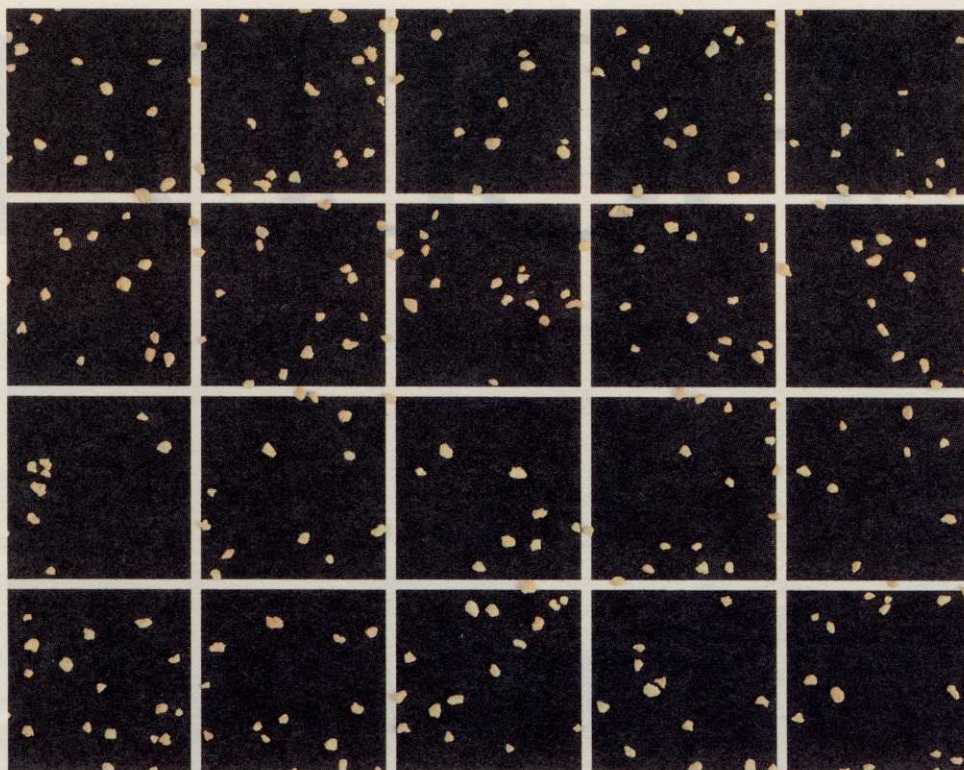
A major challenge is designing a layout to fit the southern Florida climate. The Honda Classic is held every March, "and in March on the east coast, the wind roars," Beebe said.

Those winds led the Tour to move the Honda Classic from Eagle Trace, five minutes from the Heron Bay property, to Weston Hills.

"So we are designing a course where you don't have a carry on every single approach shot or tee shot," Beebe said. "When the wind blows those types of courses can become unplayable. This will be playable whether the wind blows or not."

"The real theme here will be the bunkering, as you might expect with no trees. We need to create visual targets."

Also, because of the winds, the course is routed so that most of the water on site lies on the perimeter and golfers will have a lot of room to hit the ball, he said.



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CIRCLE #131

Rees Jones active East Coast to West

DESTIN, Fla. — Burnt Pine Golf Club, designed by Rees Jones, is the latest addition to the already plentiful golfing options at the Sandestin Resort, a 2,400-acre residential resort community here, near Pensacola along Florida's Emerald Coast.

Burnt Pine, which will be open to members and resort guests until further notice, features four sets of tees that will allow the course to be played from approximately 6,500, 6,000 and 5,100 yards as well as the championship yardage of 7,046. The par-72 track was carved from sandy pine forests and freshwater wetlands.

Burnt Pine adds 18 holes to the original Sandestin Links and the 27-hole Baytowne Golf Club, giving Sandestin a total of 63 holes.

...

Meanwhile, at Durham, N.C., the newly renovated Duke University Golf Club was christened late last year by Jones after a \$2 million facelift. The original course, designed by Rees' father, Robert Trent Jones, opened in 1957. The redesign provided Rees with a chance to do what he called "a hands-on-job, a true labor of love." The campus-based course now has redesigned and rebuilt greens, tees and bunkers and regraded fairways.

...

In North Scottsdale, Ariz. the Dioguardi Companies and Foot Wedge Golf L.L.C. is working with Rees on the construction of Legend Trail Golf Club. The club will consist of an 18-hole course and a territorial style clubhouse that will be located within a 573-acre master-planned community.

DESIGN ROUND-UP

Brauer active in Metroplex; Sky Valley mess settled

ARLINGTON, Tex. — Jeffrey D. Brauer has completed two upscale, public golf courses within the Metroplex that will be ready for play in 1995. **Cross Timbers** Golf Course, in the city of Azle, is a 6,780-yard course located in a wooded setting with rolling hills and limestone outcroppings. **Tangleridge** is a 6,810-yard layout in the city of Grand Prairie. Tangleridge was inspired by the work of legendary British golf course architect

Alistair Mackenzie (1870-1934) and features numerous multi-lobed sand bunkers.

...

VALLEJO, Calif. — **Sky Valley** San Francisco, L.P. and its general partner, Misawa Homes of America Inc., the owner of approximately one-half of a 1,339-acre subdivision located here, known as "Sky Valley," has settled all claims with the master developer, Sky Valley Limited Partnership. The settlement

comes almost two and a half years after the parties began litigation over breach of contract and construction claims in excess of \$100 million in Solano County Superior Court. The two parties were eventually moved into binding arbitration starting in November 1993. Under the terms of the settlement, the parties will move forward and complete the development, which includes an 18-hole golf course designed by **Arnold Palmer**.



A TREASURED POSSESSION

The Treasure Island Golf, Tennis and Recreation Center has opened in Treasure Island, Fla. The center features a nine-hole par-3 golf course with two ponds, sand traps and manmade grass hazards. The course is situated on the intracoastal waterways of Tampa Bay.

Jacksonville loses circa 1920s Ross golf course

Continued from page 35

King of Neptune Beach, president of Ft. George Island Golf Association, Inc.

Supporters of the course hope to find more supportive listeners in the new Cabinet which includes four new members who stepped into their jobs on Jan. 3. Any member of the Cabinet can offer a motion to rescind a previous action of the Cabinet.

The Cabinet's vote was on the so-called 210 Plan which requests \$4 million to build the infrastructure for such "passive recreation" as hiking and bird watching.

"We have an abundance of nature trails in Duval County. There are 58,000 acres of state park adjacent to Fort George Island, and we only want 67 acres for greens, tees and fairways," King said. "Plus, their plan asks for another \$4 million ... and we already have \$2 million to restore the golf course."

Opponents, said golf course architect and Jacksonville resident Bobby Weed, "used the same old, typical environmentalists' fear and sensationalism tactics about the water, contamination, leaching."

Billy Arnold of Friends of Fort George Island told the Cabinet the 250-acre island is too small to support both a golf course and state park, according to *The Florida Times-Union*.

Golf historians have pointed to the fact that nine of the course's 18 holes were designed in the 1920s by Ross, one of the most famous course architects in the world.

The island had been clearcut and turned into a cotton plantation long ago, and construction of the course rejuvenated it. Now, a treasure will be lost, they say.

The state bought the island in 1989 and gave Jacksonville an interim-use agreement allowing the city to continue operating the golf course property.

But in 1991 Mayor Ed Austin said the course was too expensive to maintain, and it was closed.

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Designer Walker, pioneering scientist Hawkins link up in new firm

By MARK LESLIE

Operating on the belief that time to gain approvals can be "significantly shortened" by coordinating design, environmental and permitting disciplines in the planning process, scientist Larry K. Hawkins and former Gary Player Design Co. architect Tom Walker have formed a new company attempting just that.

Headquartered in Gainesville, Fla., U.S.A., Golf Design Studios,

Inc. will offer course design, engineering and environmental management and permitting expertise. It draws on Hawkins' expertise in golf permitting and Walker's background in course design and construction.

They hope to make in-roads in Asia-Pacific, Hawkins said, adding: "I hear so much about



Tom Walker

their water-quality and environmental problems, and our concept works well in those situations. It's a common-sense approach, implementing design, water-quality and maintenance practices on the entire site plan."

Before forming their company, Hawkins and Walker worked well together on a couple of projects.

"We have been able to manage project approvals in substantially less time compared to other projects in the same area," Hawkins said, "when we have provided wetlands, water-quality and habitat-management plans that were properly integrated into golf course design and site-planning elements."

"This translates into hard



Larry Hawkins

dollar savings for our clients. Our experience in golf-related environmental issues has been very useful in expediting the approval process."

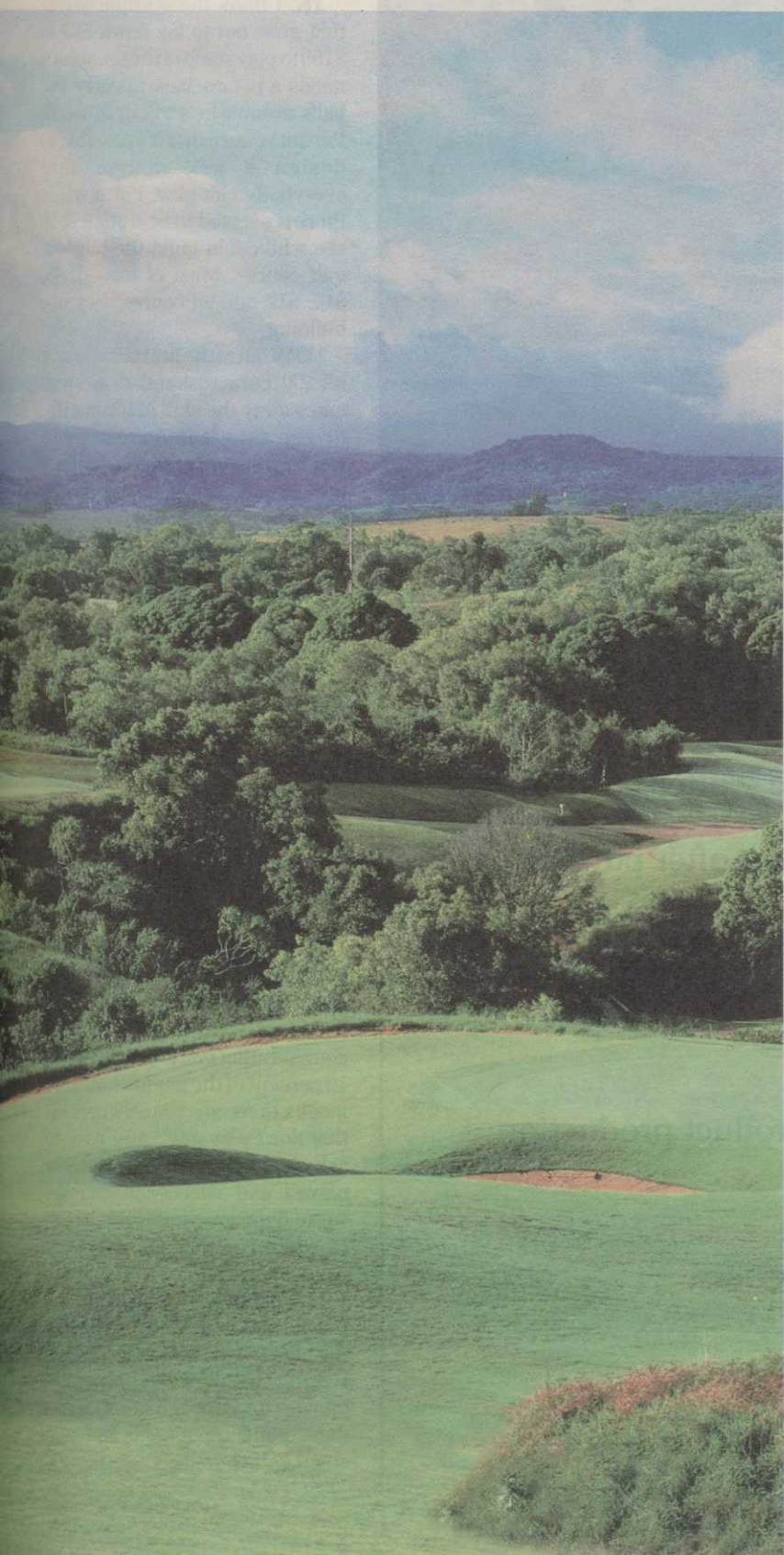
None of his plans, Hawkins said, has required expensive numerical model analysis for pesticide fate assessments. "Our experience," he said, "has been that there is a positive response from the political bodies and general public to projects that have been well planned and focused on environmental sensitivities from the outset."

Hawkins has integrated computer-simulation technology into the course and water-management design plans to help developers and the public better visualize how the water system and golf hole function together.

Hawkins, president of GeoScience Inc., has been providing environmental management programs and helping gain permits for golf courses for more than two decades.

Walker has 20 years experience — the last six years as an architect with Player Design and five years before that with Wadsworth Golf Construction Co.

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CIRCLE #132

Cascio, Stanhibel form DesignInOne

KENOSHA, Wis. — Steven Cascio and Joe Stanhibel recently formed DesignInOne, a multi-discipline design group exclusively concentrating in golf club and resort identity programs.

Cascio and Stanhibel have more than 30 years of international marketing and corporate identity design experience.

"We created DesignInOne to meet the specific needs of the leisure and entertainment market," Cascio said. "We start each project with an in-depth marketing/design analysis so we can pinpoint our client's needs, develop an effective identity and create appropriate marketing tools to launch the development."

Burns' design to open in summer

MEDINA, Ohio — The golf course at Fox Meadow Golf & Country Club is scheduled to be completely seeded by mid-October, with play expected to commence in the summer of 1995.

The course, part of a 563-acre, upscale real-estate development, was designed by Burns Golf Design, of Fernandina Beach, Fla. and built by Central Florida Turf, of Avon Park.

Q&A: Kidwell

Continued from page 35

JK: I started when I was seven. I won the state high school championship in Ohio with a borrowed set of ladies clubs. I couldn't afford a set of sticks until I was about 18 or 19. Things were tough then.

GCN: What were your early days like at Beacon Light in the late 1930s?

JK: Golf was so cheap then. Brookside had a joining fee of \$100. You could play almost any golf club in Columbus for 65 cents. Beacon Light was being badly

managed. I went home one night and asked my father if you could buy land without any money. We bought it from Otterbein College on a land contract with no money down. I came in and I was the work crew, the pro and the superintendent. I had a young chap, nationally known now, Dr. Michael Hurdzan, who joined me as a laborer when he was 15.

GCN: What was your first golf course design job like?

JK: In 1958 there were two fellas who were nightclub owners that wanted to build a golf course [Twin Lakes GC] on the south side of Mansfield. I remember my

instructions were, "We don't care about the golf course, we want to make sure [the golfers] get by the clubhouse and the bar as often as possible." The bar was going to be their big money maker. We got them by the clubhouse seven times and it's been well used.

GCN: Who are some of the golf architects you most admire?

JK: I'd have to say Mike Hurdzan has come further in a shorter period of time than I ever dreamed of. This boy has his nose in books, articles, and he writes. I don't know how he has time to sleep. Jack Snyder is wonderful. Rees Jones is another. I have to

include Bobby Jones, Papa Jones, he's done more for golf... I hate to name fellas like this because I know so many of them and they are so gifted and talented. I've learned so much from every one of them. I'd have to throw in Mr. Nicklaus too, although I don't know how much designing he does, and don't let me forget Pete Dye [whom Kidwell competed against in high school golf competitions].

GCN: What sort of work did you do in your first years at Beacon Light?

JK: When I got my feet on the ground I started rebuilding

greens and tees — and that was really my apprenticeship.

GCN: Is Beacon Light still operating as a golf course?

JK: No. I sold Beacon Light in 1970 to a real estate developer. It's a housing development.

GCN: As far as courses you've designed, what are your personal favorites?

JK: I have to say that Hueston Woods State Park might be the best 18-hole public golf course in the world for the money. It was \$250,000 to build in 1968. We did one here in Columbus, what you'd call a blue-collar country club, and we built that for \$481,000 — that's Hickory Hills C.C. I think we did three nice ones in Cincinnati: the Vineyards GC, Beckett Ridge G&CC and Blue Ash GC.

GCN: Did you ever consider working beyond Ohio?

JK: My lifestyle was such that I liked to be home at night. Dr. Mike [Hurdzan] has logged 50 million miles since he bought me out. I just couldn't endorse that kind of life.

GCN: What do you think of design in the last 10 to 20 years?

JK: I think the average player that goes out to lay down \$75 to \$150 to play some of these courses needs a potato sack to carry the balls around he's going to need. I'm not so sure that it's possible to design a golf course that everybody can play. For a while there it seemed to be a contest to see who could build the hardest golf course. Most of the \$6, \$8, \$10, \$12 million course they are building,

I look out at the first fairway and it's 100 feet across and, to me, that takes away the skill of hitting the driver that someone's been working on for years. Does it take the \$15 million to make the player? Or can a boy learn to play — and play well — on a golf course that isn't in that class?

GCN: Do you feel your courses have stood up well over time for playability and maintenance?

JK: Most of my work was what you might now call Mom and Pop golf courses: low budgets and a necessity to make money... I designed courses around Columbus that are still getting 40,000 rounds a year.

GCN: Do you see any problems with golf course designing and building today?

JK: I think the golfing industry has been a little bit asleep at catching the new golfer. The National Golf Foundation contends that golf is played by 8 to 10 percent of the population. That means there are 90 to 92 percent that don't play golf and I have to ask why. Some of the most heavily played and successful courses we've done are Shamrock, which is what I called an improved executive.

We did an 18-hole executive at Blacklick Woods and it's outdrawn the big course there consistently. I don't think we've provided enough for the beginner. But you don't build reputations building small golf courses.

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CIRCLE #133

Mississippi coast potential to be tapped by casino-golf developers

Continued from page 35

County development and tourism commissions last summer hired Wizeman's Myrtle Beach, S.C.-based company, International Resort & Golf Resources, to market the area — dubbed the Mississippi Golf Coast — to potential course developers.

Wizeman's main duties, Olivier said, were to identify specific sites that landowners would be willing to donate to golf course developers and to attract developers interested in building courses that would make the area a premier golf destination.

Wizeman developed a manual providing an overview of the Gulfport market, the casino gaming industry, the existing golf course supply and information on available sites. He then sent the report to a select list of 35 prospects. Among other things, the report notes that:

- Approximately 300,000 people reside within a 30-mile radius of Harrison County. Most live near the 26-mile stretch of man-made beachfront bordering the municipalities of Biloxi, Gulfport, Long Beach, Pass Christian and D'Iberville.

- The area is accessible from Interstate 10, which traverses Harrison County. The area also boasts the Gulfport/Biloxi International Airport, a multi-million-dollar facility serviced by four major regional and national carriers.

- Fourteen casinos have opened with another 17 projects pending. The first opened in 1992. Existing facilities generate almost \$1.5 billion in annual revenue and host 60,000 guests daily. Another 6,030 hotel rooms are expected to open in 1994-95, bringing the total room count to about 10,000.

- The Mississippi Golf Coast has 16 existing courses, including Broadwater Beach Sea Course (the state's oldest layout) and Mark McCumber-designed Windance Country Club (site of the Nike Tour's Mississippi Gulf Coast Classic).

"Other areas may have casinos, golf courses or beaches, but few have quality sites for all three," the Mississippi Golf Coast manual boasts.

And few are likely to get all three in the near future, added Wizeman, noting the fall elections in states where gambling was under consideration. Voters in Texas and Alabama turned out gubernatorial candidates favoring gambling while Arkansans and Floridians turned aside referendums aimed at establishing casino operations.

"I think some potential developers were holding back until the elections," Olivier said. "The November results helped

us greatly. There won't be the proliferation of gaming there could have been. Florida, Alabama and Texas are major markets for us."

"We realized we could use gaming as a way to attract other recreational activities. We get 60,000 people a day through the casinos who want to do other things while they are here."

The Mississippi Golf Coast manual also contains architectural drawings and aerial

photographs of the six primary sites.

The landowners have agreed to donate 150 acres to golf course developers. The landowners would make their money by developing surrounding acreage.

The only land cost for potential developers would be a 5-percent broker's commission [which averages about \$20,000] on the land's appraised value.

Twenty-five sites have been

identified for potential development, Olivier said. The six appearing in the manual have the fewest environmental obstacles and are located in optimum locations for the casino hotels that would funnel much of the business to the new layouts.

"We've met with Department of Environmental Quality staffers and reviewed the sites with them," the development agency official said. "Developers

will still need to go through permitting, but we'll assist in the process.

"We're trying to be pro-active on this."

The state and county, Olivier added, are offering various incentives such as property tax exemptions, sales tax exemptions on course construction materials and corporate income tax discounts for facilities employing more than 20 people.

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CIRCLE #134

For good or bad, magazine ratings have affected course design

Continued from page 1

opers — to outdo one another. This has led to more costly golf courses, both for the developer and the golfer, as well as more circus-style playing fields.

"I think that's true," said course superintendent and *Golf Digest* panelist Terry Buchen of Galena, Ohio. "In the '80s they were doing a lot more for show, or to attract members than anything else. Then they all got in a bandwagon to compete... and they got into

one-upsmanship."

Saying that ratings, and sometimes the demands to create "memorability" of a golf course have had an effect, course architect Jeffrey Brauer of Arlington, Texas, likened this pressure to a goalie in the Stanley Cup. "He can't say, 'Gee, I'm in the Stanley Cup!'" Brauer said. "He'd clutch up. He's got to play it like it's a regular game. When you get into the design of a golf course you have to be more concerned

for the needs of that course than some *Golf Digest* poll."

"A lot of architects have said that if they build something that's subtle, some of the raters overlook it," Doak said, "and to some extent, I think that's true. Not all the raters know what they're looking at. I think I'm a good judge of picking out stuff, but on a really good course, there are some things you don't see until the second time, or the fifth time."

When *Golf Digest* coined the

phrase "memorability of golf holes," Doak said, architects started trying to make every hole "really different from anything else, and that tends to lead to gimmickiness. I want a variety of holes and different shots, but I don't want them to jazz up the landscape on every hole to make it look like some other golf course on some other planet."

Whitten agrees "gimmickiness" has resulted from the *Golf Digest* poll. The survey began in

1969 as the 100 Greatest Golf Courses, and ran every second year. In the 1980s the magazine added a survey on the Best New Courses. The surveys, and perhaps the popular Whitten-Geoffrey Cornish book, "The Architects of Golf," gave more public exposure to golf architecture. "There was a bigger explosion of 'designer labels,'" Whitten said. "[Jack] Nicklaus, [Pete] Dye and [Tom] Fazio were making headlines every week, it seemed. There was a good deal of attention-grabbing architecture designed, I think, to capture the fancy of panelists, of the public, of magazines. Owners told me their goal was to make the cover of *Golf Digest*..."

"Fazio and Nicklaus will tell you the clients will expect this of them. And if guys of their stature can't resist, how can the young guys?"

Yet, the tide may have turned from the bombastic back toward the natural look.

"The razzmatazz age is over," Buchen declared. "So many courses have chocolate mounds, etc., and it isn't so great."

"Architects are less and less inclined to do these real visually over-dramatic statements," Whitten agreed, paraphrasing Ben Crenshaw: "They're now speaking in whispers rather than shouting at us."

"Most of us were enamored by the '80s, but it almost got too excessive," Whitten said. "We'd eaten too much chocolate. It got gimmicky. Now we think, six waterfalls is a gimmick. I see it as a big change."

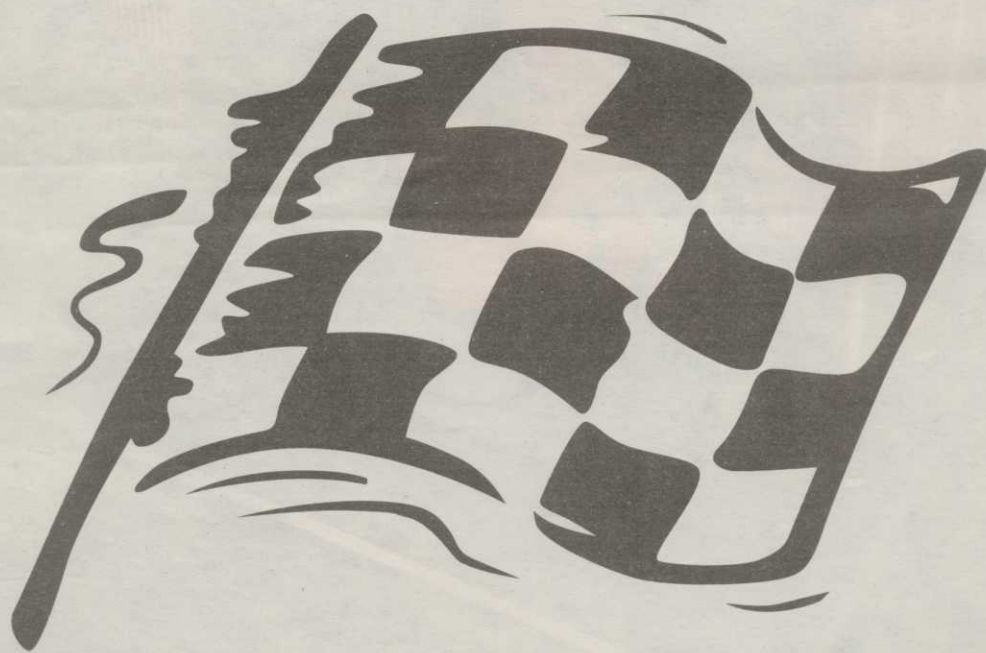
"Now, we're getting back to the basics — the 'less-is-more' concept," Buchen said. "It's minimalist design. I hope they stay that way."

Golf Magazine's Doak takes exception with some of the aspects of golf course design that *Golf Digest* panelists evaluate in their voting. "*Golf Magazine* has no definition of what a great golf course is, whereas *Golf Digest* has a very rigid definition and gives points for each thing," he said, eluding to GD's judging criteria of shot values, resistance to scoring, playability, design balance, memorability, esthetics and conditioning.

But Whitten responded: "[*Golf Magazine* Editor and Chief George] Peper said we're not going to give panelists a predetermined definition of greatness. We're not so arrogant. But you have to have some standards by which to judge. Whether it's simply looking at their [*Golf Magazine's*] list, or categories that we use, you have to have something. I've seen Tom's ballot. There's nothing wrong with the way he does it. It's A,B,C, D or F. It's fine as far as it goes. We just try to break it down more. It gives me more to write about. I can analyze and tell people

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By MARK LESLIE

Conflict of interest. Bought favors. The accusations fly each year when golf magazine polls on the best courses are released. But they are quickly debunked by the accused.

Ron Whitten, a former district attorney who runs the *Golf Digest* surveys, doesn't even vote himself, he says, and has dumped several of his panelists over the years for accepting gratuities or "acted contrary to our code of conduct."

Perhaps the harshest criticisms have been directed at Tom Doak, a golf course architect who operates the *Golf Magazine* poll and whose High Pointe Golf Course in Michigan has been ranked in the magazine's Top 100 listing.

"Some people think there was tremendous impropriety because High Pointe made the list," Doak said. "I sent in my resignation to *Golf Magazine* because everyone would call it conflict of interest. But they've asked me to stay because they think I run a fair game... So, at least for the next time, I'm staying."

High Pointe may have received

Conflict accusations fly, but raters duck

"more credit than it deserves because some of the panelists know me and came up to see it, and because they perhaps tended to like it a little more," he said. "But it got the vote. And all golf course architects benefit from that. You can't tell me Jack Nicklaus' courses, or Tom Fazio's don't get some more credit because of their name."

Doak said he has become less and less involved with *Golf Magazine* over the years since

See related story
on next page

hanging up his shingle as a course architect because he knew conflict-of-interest would be an issue. Today, he has no connection with the magazine's selections of the best new courses of the year, which is under the aegis of the travel editor. He instead runs the selections of Best 100 in the World and in America.

"A couple of my courses have been selected, and I think they deserve to be in," he said. "If somebody else doesn't, that's fine. I just hope they have seen my courses and think they don't deserve it before they criticize me for conflict of interest."

Ten other architects are on the panel, all get one vote, and no votes for their own courses are counted, Doak said.

Meanwhile, at *Golf Digest* no staff members participate in the

panel, Whitten said.

"We don't want an editorial influence in the numbering. We're the survey-takers. It would be like asking the Nielsen people, or Academy of Arts and Sciences people to vote. They're the people counting the ballots," he said.

"We try our damndest to make this above-board. There are clubs that try very hard to influence votes. Panelists can accept only greens fee and cart, nothing more... It is not designed to be a clique to get free golf."

Continued on next page

The Ratings Game

Continued from previous page

why this course is strong.

"Tom's is so subjective he can write the results, but has little to draw on to write about."

One outcome of the my-course-is-better-than-yours phenomenon has been rising costs in construction.

"I've found costs have been accelerating," Brauer said. "Most architects don't have the budgets to create 18 memorable holes. Both players and architects I've talked to use PGA West as the classic example of 18 spectacular holes, and when you get to the end of them, you still can't remember the difference. So, to a certain degree it's sort of self-defeating to try to do all 18 as memorable holes because they do blend together."

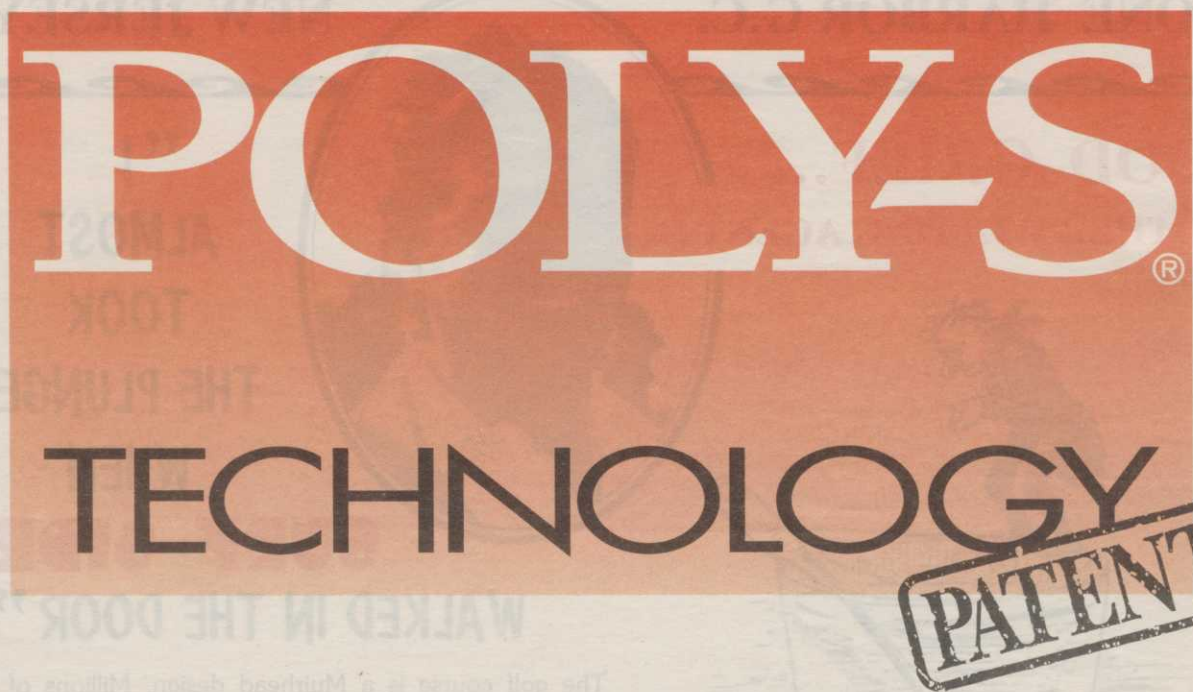
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For all the debate, polls will not soon go away. *Golf Course News* conducts its own polls for Best Architect and Best Builder each year, as well as Best Conditioned Course on one of the professional tours.

The attention has its benefits, says Brauer. "It creates more interest in what I do," he said. "Whether I win or don't win, if it is flawed or favors one type of golf course over another, it creates interest in golf in general and that can only help us."

"I'm not holding ourselves out as judge and jury," Whitten said. "It sells magazines. It has an impact on the state of golf architecture which I don't find entirely bad. It is a standard by which architects measure themselves against each other. And a little competition isn't bad."

GOLF COURSE NEWS



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Superintendents moved to anger over 'conditioning' criteria

By MARK LESLIE

The debate over whether to rate a course's conditioning when ranking it, has stirred superintendents to anger and panelists to don flak jackets ever since *Golf Digest* began its rankings with conditioning as one of several criteria in 1985.

Superintendents complain course raters don't take into account special and dynamic circumstances that confront them. "Soil conditions, drainage

topography, amount of play, ownership directives, budgetary restraints and weather are only a few of the many factors that are considered when it comes to grooming a course. No two courses are the same even if they're next door to each other," said Richard Staughton, superintendent at Colonial Charters Golf Club in Longs, S.C., whose condition was criticized in one poll. "Keeping a course in top-notch shape

requires routine maintenance practices such as aerifying, top dressing and verticutting."

"If anything, I've tried to de-emphasize conditioning in the Golf Magazine poll," said that publication's survey coordinator, architect Tom Doak. "That's why we have 60 or 70 panelists. Some haven't seen the course for 10 years. They can't be voting on what kind of condition it is in today. They may have heard about its condition, but using that

[using secondhand information] is wrong."

Ron Whitten, who directs the various *Golf Digest* polls, defends his inclusion of conditioning. That evaluation is removed from calculations two years after a panelist last sees the facility, he said, "so a course is not penalized if it has changed conditioning. That is one area we think we need to keep more up-to-date on."

Shot values, he said, "are far and away the most important

factor. So we double that number. Everything else has equal value, equal weight. Some think that should not be true of conditioning. But you can have a great golf course that people like even if it is in bad condition. And there is some great conditioning on ordinary designs that elevate the courses. It shakes out pretty well."

Golf Digest's 700 panelists are told to rank courses — from one to 10 — on shot values, resistance to scoring, playability, design balance, memorability, aesthetics and conditioning. Their findings are published in the magazine's lists of America's 100 Greatest, America's 75 Best Public Courses and 75 Best Resort Courses, the annual Best New Public and Private Courses, and Best Courses in each state.

Doak complained that "with a lot of raters, if the greens were aerified yesterday, [to them] the course was in lousy shape. That's stupid, but they don't know much better than that."

But Whitten said: "Our panelists understand routine aerification is part of the life of a golf course. We ask how playable were the tees, greens and fairways the last time they played it. Even if it was aerated, the greens are still playable."

"What you are looking at are poor maintenance practices — a lack of irrigation — or, more commonly, too much irrigation — thatchy greens, infestations of poa annua, fairways that are patchy, tees that are beat up, a lot of divots not repaired or filled."

He said a number of panelists will explain in their evaluations why a course was not in good shape — pointing to drought or flood, for instance.

"We do not punish for those cases, but we do hold a course accountable for poor maintenance practices," Whitten said. "Harbour Town [Golf Links on Hilton Head Island, S.C.] got

Continued on next page

KEN THOMPSON

STONE HARBOR G.C.

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TOOK
THE PLUNGE
WHEN
SURF-SIDE
WALKED IN THE DOOR"

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normal maintenance / aeration procedures over the past 4 years to improve the root zone but in 1991 we started applying Surf-Side at rates sufficient to eliminate watering problems. We start with a shock treatment in May of 12-oz/M on greens and if that isn't sufficient we go to 16 or 24-oz/M. This is applied at 6 gals Surf-Side in 160 gals water and we do water-in at these higher rates. **On high sand greens that repel water it's best to spike about an inch before treatment. It increases effectiveness like you wouldn't believe.** To maintain collars we use 3-lbs/M of Granular Surf-Side and apply in two passes... syringing is one thing on collars; keeping the grass alive and looking well is another. We drench the grass faces of traps with 1-gal Surf-Side in 100 gals of water as well as localized dry spots on fairways. We apply with a gun, and don't water-in the treatment. We've reduced syringing 30 to 40% and only need 1 to 2 men under the worst of hot, dry, summer conditions. We do find a residual using Surf-Side. After establishing control of our greens with 130-oz/M in 1991 we are now down to 64-oz/M in 1992. It is best to cure your watering problems up front with the Surf-Side and then adjust rates accordingly. We apply 2-gals Surf-Side in 160 gals water to 80,000 sq.ft. with all our contact and systemic sprays. We've had no disease problems in the past two years. The same Surf-Side mix is applied to fairways every 3 weeks at the rate of 3-oz/M. Lastly, we put 10 gals Surf-Side in our 2000 gal FERTIGATION TANK and meter 450 gals of mix into our irrigation line per week. The Surf-Side gives us a quicker response on leaf absorption of nutrients. Surf-Side 37 can bring overall maintenance & watering costs into line... **The product pays for itself.**

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Conflict charged

Continued from previous page

"I know a lot of the panelists. Most are sincere in their efforts. They are golf people — professionals, superintendents, talented amateurs, managers — and they take what they do for us seriously even though they are not compensated for it. They get absolutely no glory because we don't even print their names any more. There were clubs showering them with invitations, videotapes, etc."

Saying that he gets letters from clubs "all the time," Whitten added: "Not that they're doing anything wrong. No one on paper has offered an illegal inducement. But they do want 30 panelists to visit their clubs so they can get qualified."

SAND GREENS

SAND GREENS

The conditioning judgment call

Continued from previous page

in worse and worse shape for several years and began to drop. Pebble Beach [Golf Links in California] began to slide down, then the owners pushed a lot of money into maintenance, and two years ago it went back up to Number 2."

Despite its "craginess," Cypress Point [in Pebble Beach, Calif.] gets good numbers in conditioning "because people understand the nature of that beast," Whitten said. "We're concerned about the areas you are supposed to play. We don't care if rough is dry and brown."

Referring to *Golf Digest's* article "Places To Play 1994-95," Colonial Charter's Staughton said to the magazine's president: "To have someone call my golf course 'a dog track' is obviously taken as a slap in the face. My staff is taken aback, upset, and disgusted by the comments. *Golf Digest* has damaged my integrity and reputation..."

In its brief five-year history Colonial Charters has hosted the Myrtle Beach Open, Myrtle Beach Invitational and Carolinas Open Championship once each; Carolinas Senior Championship three times; and Carolinas Junior/Senior Championship and NCAA Big South Conference Championship four times each. "I hardly think 'a dog track' would be allowed to host the above tournaments," Staughton said.

Whitten said the one thing that concerns him is equating condition with green speed. "A lot of our panelists think if a green Stimps at 12 that's great conditioning. Others think 12 is ridiculous," he said.

Some superintendents complain courses that spend the most for maintenance automatically get higher rankings. "That's one main reason so many modern courses are getting ranked so highly," Doak said.

There probably is some truth to that charge, Whitten admitted. "Eights and 9s go to big-budget courses. Sixes and 7s are excellent for other courses. It's not that these courses have an unfair advantage. They are spending the money to meet the demands of their clientele. The Vintage Club probably is the most immaculately maintained course in the world. I've heard they allocate \$1 million just for flowers. But it fell off the 100 Greatest list. So, if it were simply money spent, Vintage Course would be No. 1.

"There is a check-and-balance." *Golf Digest* panelist and superintendent Terry Buchen, a *Golf Course News* consultant whose Double Eagle Golf Club in Galena, Ohio, Whitten called "micromanaged," said the poll does not put too much stress on conditioning.

"I can see right through things

like aerification," he said. "The big thing I notice is an exaggeration—if a course is well maintained one year and not the next. Most are usually consistent, or they get better. Certainly the top 10 are good consistently. The only time they get worse is because of bad weather."

Buchen said he does take a course's maintenance budget into account, and tries to talk to the superintendent and play the course with him. "He knows more about the course than anyone. I pick his brain about maintenance, membership and

design objectives."

Yet, for all the dispute over rating a course's condition, architect Jeff Brauer of GolfScapes in Arlington, Texas, said: "The truth of it is, the average panelist would be subconsciously including it somewhere... Maintenance is important. But, on the other hand, when I played Royal Melbourne a year ago it wasn't in great condition, but I was able to see its qualities of greatness. You mentally factor in the [au natural] conditioning of courses in Scotland or Australia.

Nicklaus Golf realigns GolfTurf

HONG KONG—GolfTurf, the agronomic wing of Jack Nicklaus Golf Services, is undergoing a personnel shuffle, but rumors of its demise are wrong, according to a company spokesman.

Nicklaus Communications Director Andy O'Brien confirmed Tyge Shields, Jay Sprohl and John Hamilton have left the company. President Ed Etchells, who has been mainly based in the

United States, will take on more international work, O'Brien said. Etchells will also continue to work with courses he has spent a long time with stateside.

John Scott, who has been involved in a number of Asian projects, will oversee most of the domestic work, O'Brien said.

Nicklaus maintains offices in Singapore, Manila, New Delhi and here.



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longest residual currently available from any Poly-S fertilizer—up to 12 weeks.

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Arvida debuts Palmer's Twin Creeks

ALLEN, Texas — Area golf enthusiasts will have a new 18-hole championship course to play late next spring when Twin Creeks Golf Course, designed by Arnold Palmer, debuts in Arvida's 2,700-acre Twin Creeks master-planned community.

Construction of the upscale, daily-fee course has proceeded as scheduled, with the planting of bentgrass greens and Bermuda fairways, tees and roughs.

Cart paths and five bridges have

been added, after completing the construction and shaping stages of the 7,000-yard, par-72 course.

"Today's biggest trend in the golf industry indicates that players are more likely to be attracted to a challenging and enjoyable course which offers a pay-as-you-play format in a private-club atmosphere," said head pro Emory Pater.

"At Twin Creeks, we are proud to offer the type of course."

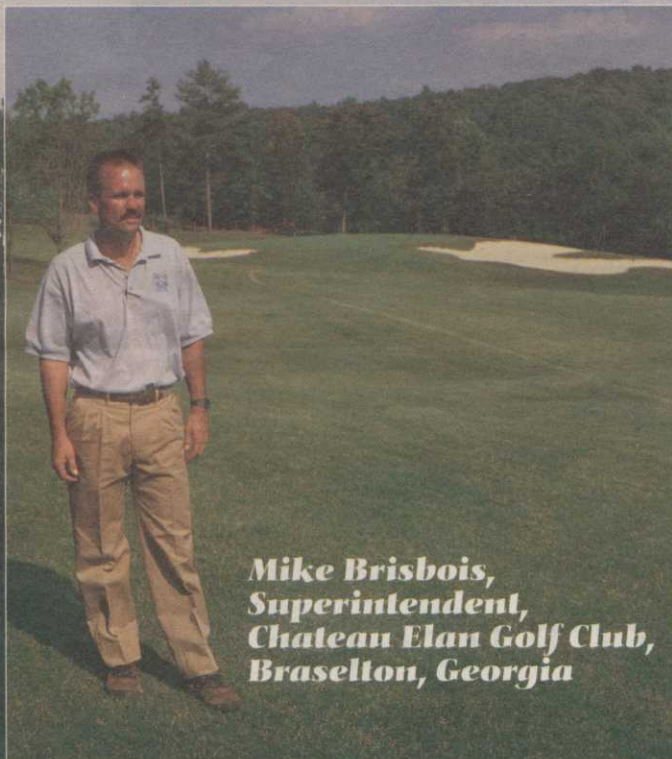
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**Mike Brisbois,
Superintendent,
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Casper-Nash fashion track for Sun City

PHOENIX, Ariz. — Construction of a new 18-hole golf course is underway at Del Webb's Sun city development in Roseville, Calif., according to Greg Nash, a partner in the golf course design firm Casper/Nash & Associates and the chief architect of the Sun City Roseville golf facility.

Scheduled to open in late spring, the course winds through a grove of mature oak trees and a series of beautifully landscaped man-made lakes with water coming into play on seven of the nine holes.

Because of the area's environmentally sensitive nature, Casper/Nash and Del Webb took extra care in designing the course to preserve the health of the oak groves and wetlands.

"There were concerns about maintaining the integrity of the woodlands," said Nash. "It took a quite a lot of doing, but we were able to design the course so that it blended perfectly with its environment without sacrificing the quality of the golf experience."

MDP involved in Millwood project

SPRINGFIELD, Mo. — The Martin Design Partnership Ltd. (MDP) is providing golf course architectural and master planning services for the 18-hole semi-private golf course and residential community here at the Millwood Golf and Racquet Club.

Set along the bluffs, waterfalls and old growth woodlands of Hunt Branch Creek in southeast Springfield, Millwood is a 6,500-yard par-71 layout with dramatic views.

The course, part of a proposed 250-acre community, is scheduled to open in late summer.

MDP is also handling planning and design for an additional nine holes at Carillon Golf Club in Plainfield, Ill., which is now known as The Links at Carillon. The new nine will be combined with the "South Course" of the original layout to create a 7,000-yard layout.

BRIEFS



GOLFCORP ACQUIRES COOKS CREEK

ASHVILLE, Ohio — Cooks Creek Golf Club has been acquired by an affiliate of the Dallas-based Club Corporation International (ClubCorp) family following a 45-day term as management consultant for the course. Cooks Creek, designed by Michael Hurdzan and PGA professional John Cook, is currently a nine-hole course but will expand to an 18-hole layout by the summer of 1995. The club is 20 miles south of Columbus.

BRASSIE STOCK AVAILABLE ON NASDAQ

ST. LOUIS, Mo. — Brassie Golf Corp.'s common stock has begun trading in the NASDAQ SmallCap Market under the symbol "PUTT." The company's common stock will continue to trade on the Toronto Stock Exchange under the symbol "TEE." Brassie and Hale Irwin Golf Services Inc. (a wholly-owned subsidiary) have been involved since 1988 in buying, designing, constructing, operating and managing golf courses, mostly in the daily-fee market.

GLEN ELLEN CHANGES HANDS

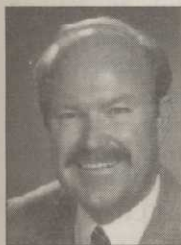
BREWSTER, Mass. — Corcoran Jennison Cos. of Braintree recently purchased Glen Ellen Country Club from Lincoln Savings Bank of New York. Corcoran Jennison has operated the 350-acre property for Lincoln Savings since 1991 and completed extensive course improvements.

SCGA ELECTS NEW PRESIDENT

UNIVERSAL CITY, Calif. — Bill Kincannon of Santa Barbara has been elected the 70th president of the Southern California Golf Association (SCGA). Kincannon, 61, is a 14-year veteran of the SCGA and a member at La Cumbre Country Club and Santa Ana Country Club. The SCGA recently bought its first golf course.

WHISPERING PALMS RENOVATED

DEL MAR, Calif. — The Cobblestone Golf Group is in the midst of a \$6 million renovation at Whispering Palms Lodge and Country Club in San Diego. Cobblestone President Bob Husband said there will be renovations to the lodge, clubhouse and golf course. Architect Jay Morrish will renovate the existing 27 holes. Plans call for an upgraded irrigation system.



Bob Husband

ClubCorp realigns to take advantage of international mgt. opportunities

By PETER BLAIS

DALLAS — Club Corporation International has instituted a major reorganization reportedly designed to better serve customers at its 240 facilities and take advantage of worldwide business development opportunities.

According to a statement from the \$1.2 billion, privately held company, "ClubCorp 2000" took effect Jan. 1 to focus on rapid international and national opportunities through its three primary subsidiaries — Club Corporation of America (CCA), which operates private clubs; Club Resorts Inc., which owns and operates golf and conference resorts; and GolfCorp, which owns and operates daily-fee and semiprivate golf courses.

CCA also streamlined its field operations from four to three main geographic regions. Within the three regions it created smaller mini-regions headed by 13 regional vice presidents. The idea is to bring operational decision making closer



ClubCorp has streamlined management to better serve courses like Colorado's Aspen Glen, above. See related story on page 48.

to CCA's 400,000 members.

Streamlining in the 1990s often means cutting back because of financial problems. Is that the case at ClubCorp?

"[ClubCorp President] Bob Dedman is such a conservative guy, I can't see ClubCorp ever being in trouble. They are in a real strong financial position with excellent cash flows," said Joe Black,

president of Western Golf Properties and a ClubCorp executive for 20 years before opening his own management firm.

"ClubCorp restructured a little while ago to get into the public golf market. They restructured while I was there to get into the city club business. Management companies always try to eliminate

Continued on page 48



Golfers deposit a token in the Tee One Up console, above, before their shot at thousands of dollars.

MARKETING IDEA OF THE MONTH

Local courses play their ace in hole

By PETER BLAIS

GREENVILLE, S.C. — Remember a jubilant Lee Trevino jumping into the arms of caddie Herman Mitchell after nailing a hole-in-one at the 1987 Senior Skins Game at PGA West?

If Trevino, who could afford to buy most of the courses he plays, goes ballistic over an ace, how do you suppose a once-a-week duffer would react if he were to stroke a hole-in-one, and the event was captured on tape and he won \$50,000?

Pretty much the same reaction, wouldn't you think? Wouldn't it make that fortunate 20-handicapper want to return to the course? Wouldn't it make his friends and anyone who heard about the feat want to try their luck on the same hole? And, more important, wouldn't that mean more rounds and additional pro shop sales for the course owner?

That's what developers of Tee One Up are pitching to public course operators.

"We've signed up 30 courses in eight states since May," said Marketing Director Peter Elliman. "We're hoping to be at 100 courses in 50 states by the end of next year [1995]. Ultimately we'd like to think we could penetrate 5 percent of the market."

Tee One Up is a video hole-in-one system installed, at no charge, on a par-3 hole at any public golf course. It consists of four small video cameras that record the golfer's tee shot, the green and a close-up of the hole. The system is activated by depositing a token into a 3-foot-high console housing the recording and communication equipment.

Continued on page 49

Management skills stressed at Ariz. school

By PETER BLAIS

PHOENIX, Ariz. — The golf industry spoke and the Mundus Institute listened.

The result was development of a golf course management program that has grown so quickly the small private school was recently forced to contract for an additional 4,000 square feet of teaching space.

That led Admissions Director Bob Webb to predict that within five years the school will be forced to develop a waiting list for students wanting to get into the program.

"We researched the industry thoroughly, talked to everyone and discovered that the golf business was in desperate need of good management personnel with strong business skills," Webb said.

"Course owners told us they didn't need more pros with nice swings. They needed good business people."

Founded originally in 1979 to provide computer training for entry-level travel agents, the Mundus Institute several years ago added a 10 1/2-month golf course management program divided evenly between turf management, general golf business and club operations (e.g. marketing, merchandising, club repair, food and beverage, tournaments, etc.). Mundus worked with the Arizona Golf Association to develop the program.

"The turf management section, for instance, isn't designed to train superintendents in agronomics, but to give students the ability to develop and understand

Continued on page 50

CMAA conference set for late January

NEW ORLEANS — The Club Managers Association of America will hold its Annual Conference and Exposition here from Jan. 30-Feb. 2.

The two-day exposition will feature products displayed at a record 460 exhibit booths. The conference lists more than 80 seminars, workshops, clinics, panels and roundtables.

Full-day pre- and post-conference workshops will also be available on a variety of topics.

For more information contact CMAA at 703-739-9500.

Melrose/ClubCorp Co. acquires Aspen Glen site

Colorado golf community is the first joint venture for the newly formed partnership

CARBONDALE, Colo. — A subsidiary of Club Corporation International and The Melrose Company has purchased Aspen Glen, a private country club community approximately 30 miles from the resort town of Aspen.

Aspen Glen currently is under development and is the first joint acquisition for Dallas-based Club Corporation and Hilton Head, S.C.-based Melrose Co.

In January 1994, the two companies formed a new national real estate company — unofficially named "Melrose/ClubCorp Company" — to pursue national and international golf-related real estate opportunities.

Aspen Glen Golf Co. — a Colorado limited partnership which will own the community — is the newly formed and wholly owned subsidiary of ClubCorp and The

Melrose Company.

Aspen Glen will offer its members golf, private Gold Medal fly fishing, horseback riding, swimming, tennis and a clubhouse with dining and health and spa facilities. The Aspen Glen project is 938 acres, with 500 acres of undeveloped land including 180 acres for the golf course and 320 acres of natural wildlife parks.

Robert T. Kolb, The Melrose

Company's president, said the goal is to have all 18 holes of the Tom Weiskopf/Jay Morrish-designed championship course playable in 1996. Construction on the front nine should start this spring.

Aspen Glen has 100 homesites, many with river and course frontage. Individual home construction could begin this summer.



Bob Johnson



Robert Dedman Jr.

ClubCorp

Continued from page 47

unnecessary operating costs and get closer to their customers."

Two long-time ClubCorp executives will head up the realigned firm. Bob Johnson, a 19-year company veteran and architect of the new plan, will move from president of CCA to become president and chief operating officer of ClubCorp's international operations. Jim Hinckley is the new president

and chief operating officer of ClubCorp's domestic subsidiaries: CCA, Club Resorts, GolfCorp and ClubCorp Realty. Hinckley joined ClubCorp in 1970.



James Hinckley

Additionally, CCA Executive Vice President Randy Williams will have an expanded role directing both national and international business development. Williams has been with the firm since 1975.

The new program is designed to reduce duplication of effort within the company itself and to take advantage of the firm's size, marketing and purchasing power.

Along with the ClubCorp 2000 program comes a new corporate philosophy titled "Seven Star Service." Seven Star is designed to enhance customer service and empower all employees to make decisions at the local level involving customers.

In the past year, ClubCorp has invested \$90 million in golf and recreational properties including Mission Hills, Desert Falls and Indian Wells country clubs in Palm Springs, Calif.; The Homestead in Hot Springs, Va.; The Golf Club at Fossil Creek in Fort Worth, Texas; and The Royal Golf Course at Queen's Harbour Yacht & Country Club in Jacksonville, Fla.

The company plans to aggressively pursue international facilities having recently opened its first city club in Beijing. ClubCorp also oversees 10 clubs and resorts in Mexico, Canada, China and Japan.

The consolidation of CCA's main regions from four down to three puts CCAWest in San Ramon, Calif.; CCA Central in Dallas, following its move from Houston; and CCA East, which formerly consisted of CCA Northeast and Southeast regions, in Washington, D.C.

For Most Lenders, Golf Financing Is Alien Turf.

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Tee One Up

Continued from page 49

After depositing the token, which is obtained in the pro shop, the golfer has 45 seconds to hit his shot. If he makes a hole in one, he informs the starter at the end of his round. The Tee One Up Command Center in California, which is linked via satellite to the course, is notified and reviews the tape to confirm the ace. If everything checks out, the golfer receives a video tape of his shot and an award check is issued within seven days.

"It's working very well," said Brandt Howard, assistant pro at Stoney Point Golf Club in Greenwood, S.C., one of the first courses to install the system. "No one has won, yet. A woman told us she had a hole-in-one, but forgot to put her token in. I think it's helped increase play."

Where does the prize money come from? Courses charge players a minimum of \$1 per round for the Tee One Up system. The extra money is forwarded to the Greenville, S.C.-based firm, which uses it to pay the prize money and promote the program.

Ten percent of all Tee One Up revenues are put back into local and national advertising. One of the most effective promotions is providing the videotape of a winning golfer's shot to the local television stations, Elliman said.

The fee can be noted as a surcharge. But typically, courses simply add it into their regular greens or cart fee early in the season. The \$1 per round charge entitles a golfer to a \$2,500 prize for an ace. The course can up the prize money in \$2,500 increments for every extra \$1 paid Tee One Up, e.g. \$2 per round for a \$5,000 prize, \$3 for \$7,500.

"A course could offer a \$25,000 prize during a tournament by sending us \$10 for every round played during that event," Elliman said.

Starting in 1995, all units will be tied together at the Command Center. By reviewing computer-generated information, the company can tell exactly when a hole-in-one is scored.

That will allow Tee One Up to add another prize, an accumulator, as Elliman called it. Basically, Tee One Up will set aside an as-yet-undetermined amount for every round played. When a golfer scores an ace, in addition to the \$2,500 prize, he will receive whatever has collected in the accumulator pot since the last ace was scored.

"Depending on when the last one occurred, the extra money could be anywhere from 50 cents to \$50,000," said Elliman, who also anticipates some sort

"We want winners. We encourage the course to install the system on its easiest par-3."

— Peter Elliman
Tee One Up Marketing Director

of year-end, closest-to-the-pin prize. "We want winners. We encourage the course to install the system on its easiest par-3. At Stoney Point they have it on a hole that plays 95 yards from the ladies tee and 120 from the mens tee."

In addition to increasing

rounds, Elliman said, the Tee One Up system tracks all rounds played, offering owners an additional control measure to verify that all greens fees are being collected and deposited in the cash register. Tee One Up can be reached at 803-239-0141.

Marriott promotes Camelback pair

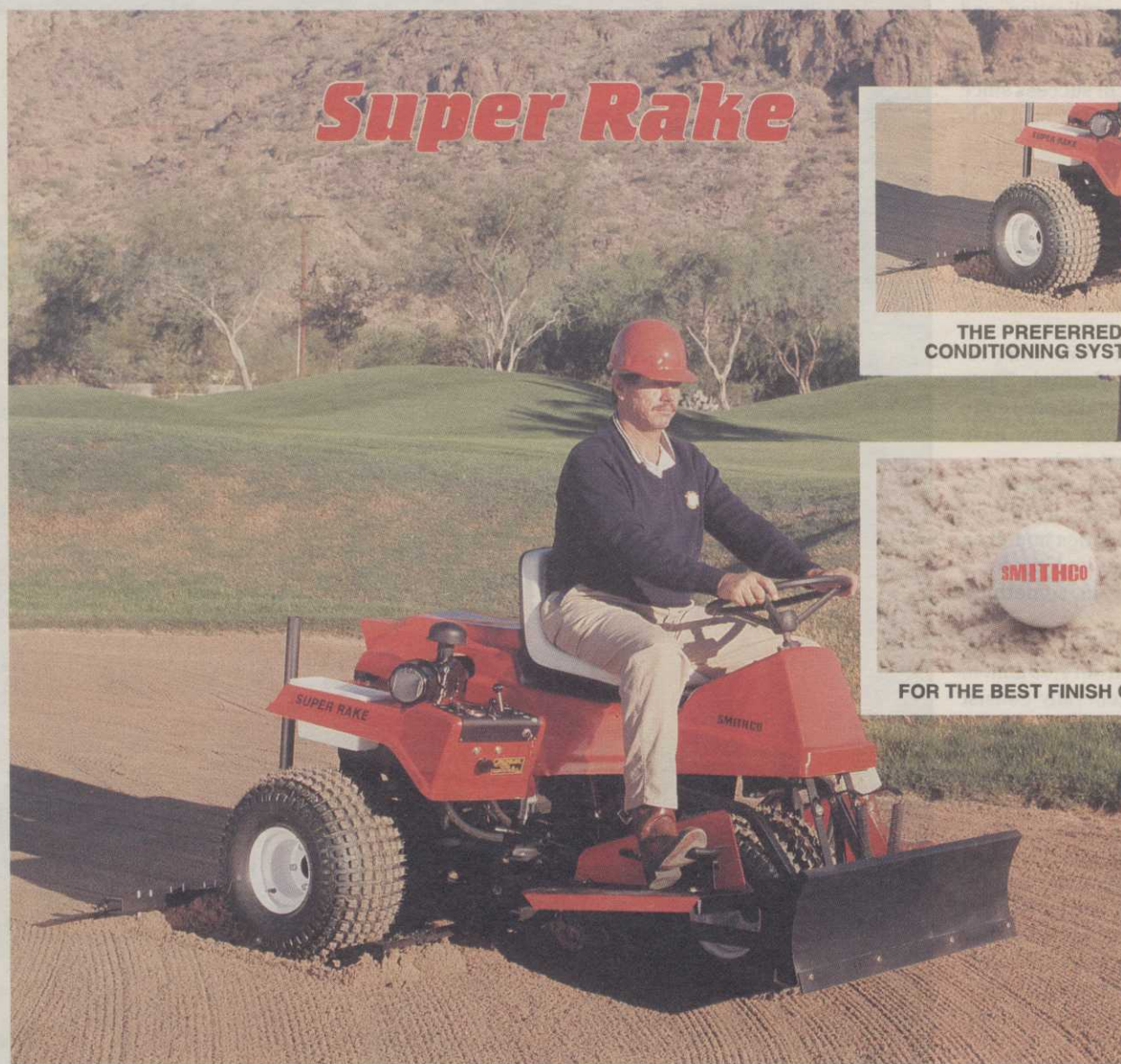
ORLANDO, Fla. — Marriott Golf has named Tony Austin and Steve Hupe as directors of golf at Marriott's Camelback Inn Resort, Spa & Golf Club and Marriott's Orlando World Center Resort respectively.

Austin, a native of Annapolis, Md., has been with Marriott since 1979 as an assistant golf professional. His most recent job was as direc-

tor of golf at Orlando World Center, a job he started in 1986.

Hupe, a native of Dayton, Ohio, joined Marriott in 1980 as an assistant golf professional and has worked as an associate golf pro and director of golf at Marriott facilities in Lexington, Ky., (Griffin Gate Resort) and in Dallas/Fort Worth (Fossil Creek Golf Club).

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CIRCLE #142

Mundus Institute

Continued from page 1

budgets, ordering and the importance of course conditioning," Webb said.

Mundus wants its students thoroughly grounded in all aspects of golf course operations since it sees many of its pupils eventually rising to general manager positions.

"We don't expect that right away. There are generally 40 to 45 positions at a golf course. Most students start out at an entry-level or mid-management position and work their way up. Some end up as general managers. Others find something they like better along the way," Webb said.

Mundus requires that students have a minimum of a high school diploma or a certificate of equivalency. But the golf management program attracts many older students — the average age is 35 — starting second or third careers. Many already have associate's bachelor's or advanced degrees.

Tom Roberts, head superintendent at the Arthur Hills Golf Course in Mexico, Mo., was 34 when he entered the program in 1992. He had extensive irrigation, pesticide application and agricultural experience prior to returning to school.

"I've had a lot of success since leaving the program," said Roberts, who was hired as head superintendent at Haleyville (Ala.) Country Club directly out of Mundus. "The program showed me how to market myself and gave me a basic knowledge of the different areas of course management.

Added Webb: "We don't require Scholastic Aptitude Tests or have students take pre-requisite courses, since many have already gone that route.

"We have a few students in their teens. But many are in their thirties, forties, fifties and even sixties. They are looking for a lifetime activity in something they enjoy."

Classes are held Monday through Friday from 7:45 a.m. to 1:45 p.m. and generally consist of 20 to 25 students.

Students play 12 rounds of golf during their course work, reviewing the course from a different perspective each time.

A student working in the turf management section, for instance, is expected to review golf course conditions, while another in club operations would likely analyze customer service, merchandising and other pro shop considerations.

Tuition is \$8,950 and includes everything except housing, Webb said. Mundus is accredited, making students eligible for many financial aid programs and veterans benefits.

For more information, contact the Mundus Institute at 800-835-3727 or write to 4745 N. 7th St., Phoenix, AZ 85014.

American Golf lends California schools a fund-raising hand

By PETER BLAIS

LONG BEACH, Calif. — Helping improve local schools is the goal of an fundraising campaign developed by American Golf Corp. to raise money for the Long Beach Unified School District Parent Teacher Association.

AGC has offered to rebate \$15 per person to the PTA for each group of five or more members enrolling in the company's \$65 beginning golf schools. AGC's four Long Beach facilities include El Dorado Park Golf Course, Heartwell Golf Course, Recreation Park 18 Golf Course and

Skylinks Golf Course.

"The company wants to be a part of the communities where we do business," said AGC Regional Vice President Tom Frost. "We are pleased to provide educational funding for local schools while at the same time introducing more people to the game of golf."

The golf schools include six hours of professional instruction and all equipment. The six hours can be broken down into six 1-hour classes or four 1 1/2-hour sessions. With the rebate, AGC will roughly break even on the program, Frost said.

"We haven't gotten a lot of response,

yet," the AGC executive said shortly after the program was introduced. "The PTA groups meet once a month. We expect to hear more after their next meeting."

Frost played a large part in developing the program. "I went to a PTA meeting one evening. One of the major topics was the difficulty of finding revenue sources for things like elementary school field trips and other activities. This seemed to be a way AGC could help the schools and help develop more golfers."

If the program catches on, AGC may try it in other areas of the country, Frost said.



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New product pinpoints golf demand

MIDLOTHIAN, Va. - A new product that claims to quantify golf demand and potential for specific market areas down to the zip code level is now being marketed by Forecast Golf Group, Inc. T

he Golf Course Sales Potential Report is aimed at developers, investors and management companies.

Forecast has been providing similar sales potential data for range developers since 1990 and has expanded its methodology to the course segment of the industry to identify greens fee sales potential for public

golf courses. Forecast says it maintains an ongoing in-house database that can generate reports within days of a request.

"Many companies rely solely upon basic demographic information," said Forecast President James Murphy. "This information is essential, but it is only one piece of the puzzle. What makes Forecast unique is our ability to define golfer demand, in terms of dollar sales potential, for every zip code in the U.S."

For information contact Forecast at 804-379-5760.

Golf Communities

Continued from page 1

-scale daily-fee courses being built. Give me 500 members with \$200 monthly dues, and I can make some money. No one else is chasing that market.

"If you've got a good course you can basically trap your customers. They build a \$150,000 to \$1 million home bordering the course, spend \$5,000 to \$25,000 on a course initiation fee and you've got them. That's my focus."

Stanchina, a PGA professional

since 1974, started his real estate career in 1977 as assistant manager of a Michigan golf community. A few years later he formed his own company, U.S. Golf Services and Development, which acquired and operated 15 golf properties from 1983 to 1993. The firm concentrated on underperforming properties, most of which Stanchina righted then sold.

With an infusion of \$30 million of German investment capital several months ago, Stanchina formed Golf Communities USA. The firm's purpose was to acquire, construct and operate country club communities in prime golf destinations throughout the United States.

The company quickly acquired Pinehurst National and Pinehurst Plantation in Pinehurst, N.C. Pinehurst National has an Arnold Palmer-designed course and Pinehurst Plantation a Jack Nicklaus layout. When fully developed, the two communities will have more than 1,000 homesites. The company plans to pump \$7 million into property development and a new clubhouse.

Shortly thereafter, Golf Communities purchased Cutter Sound Golf & Yacht Club in Marin County. In addition to an 18-hole course, Cutter Sound includes 96 boat slips and 200 homesites. Extensive course improvements and a new waterfront yacht club are planned.

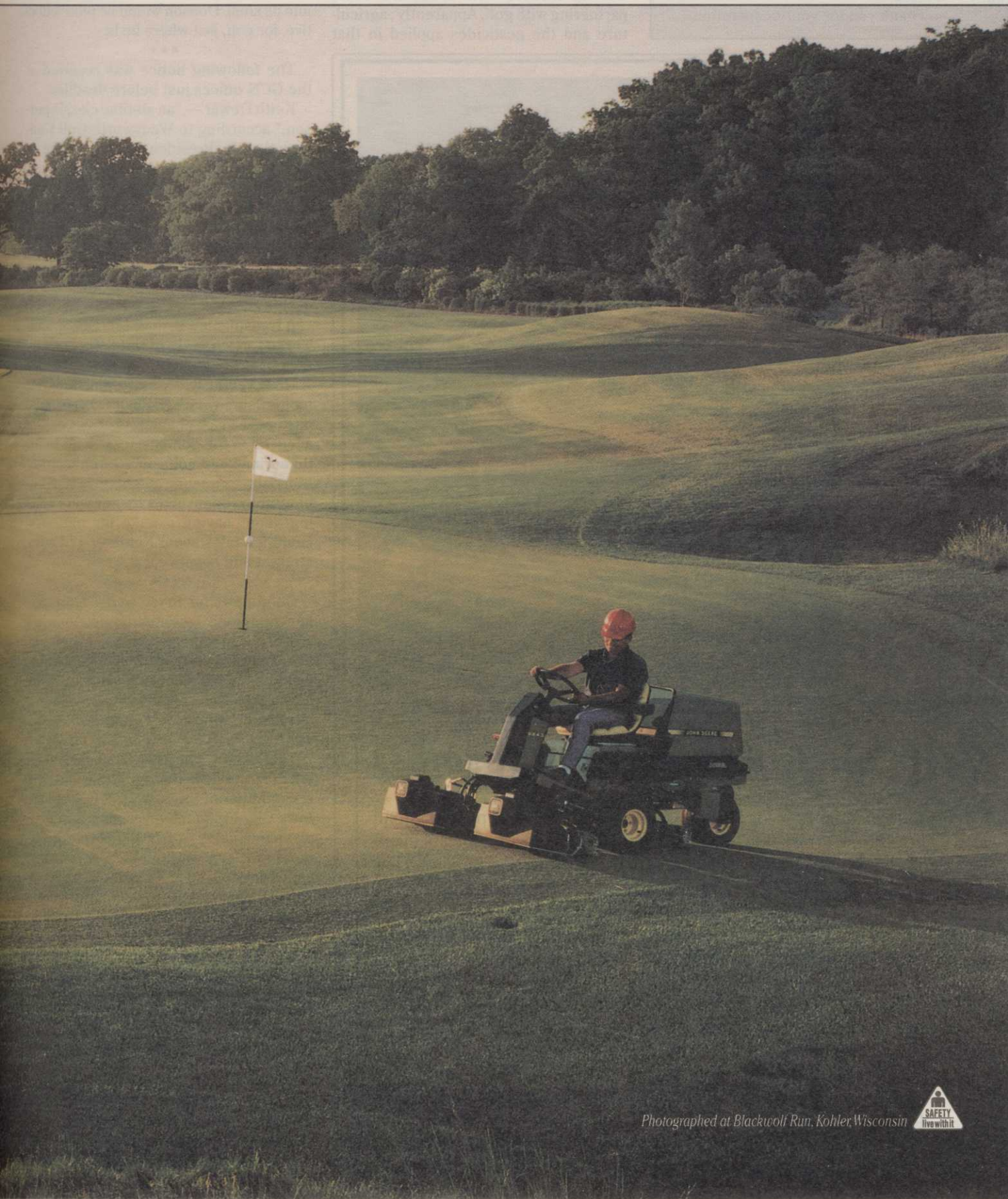
"Our first priority with any project is course condition," Stanchina said. "I have two brothers who are superintendents. We're more concerned about the turf than the presentation of the filet mignon in the clubhouse."

The company is also developing Montverde Country Club in Orlando, a 400-lot subdivision with a Stanchina-designed course scheduled to open next fall; operates Pleasant Hills Golf Club in Mt. Pleasant, Mich.; is under contract to acquire a 9,000-acre project in Tennessee; and is pursuing developments in Naples, Fla., Atlanta, Arizona and the Carolinas.

"Once we get through all that, we'll tighten our belts a little," Stanchina said.

In evaluating potential acquisitions, Stanchina said Golf Communities looks for clubs with roughly 250 members where membership and developer goals may conflict; a quality, modern course with large greens, tees and landing areas; at least 200 surrounding, undeveloped homesites; and a minimum price of \$5 million.

After purchasing a golf property, Stanchina turns it over to a management team whose members have different responsibilities but equal authority. A general manager oversees the entire operation with a superintendent, food and beverage manager, golf pro and business manager contributing their expertise.



Photographed at Blackwolf Run, Kohler, Wisconsin



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CIRCLE #143



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We want to hear from you....

In an effort to track the growth of golf course management companies, we are requesting that any management firm operating five or more courses contact us by Jan. 15.

We want to know the company's name, address, telephone and number of courses it manages. We will publish the information in the February issue of *Golf Course News* and will update the list every three months, noting the number and names of any new courses added during the previous quarter.

Management companies currently operate less than 5 percent of the

more than 13,000 U.S. courses. But as anyone who follows the industry knows, that number is growing as management firms vigorously compete against one another to bring privately and municipally owned facilities under their corporate wings.

If you want your management company to be included in our quarterly listing, please telephone Peter Blais, Associate Editor, at 207-846-0600 or write to *Golf Course News*, PO Box 997, Yarmouth, ME 04096.

Thank you for your cooperation.

Phillips comment

Continued from page 10

Dodson in his Selkirk, N.Y. office. Golf's greatest ally at Audubon keeps a busy schedule, speaking at conferences from coast to coast and meeting with facilities interested in joining the wildly successful Audubon Sanctuary Program, his brainchild, which now boasts more than 1,200 member courses.

For the sake of perspective, however, readers should remember the Sanctuary Program is sanctioned by N.Y. Audubon, not the national. In fact, national and some of its more influential chapters — Massachusetts' foremost among them — aren't exactly thrilled with Dodson's overt partnering with golf. Apparently, agriculture and the pesticides applied in that

arena are fine — golf is not.

Don't expect that to change, either. Berle — who was keen on transforming the staid organization into a broad-based, environmental player on the national scene — was about as progressive as we could hope an Audubon president to be. Unfortunately, the man rumored to succeed Berle is Dr. Gerhard Bertrand, head of the Massachusetts Society, famous for sticking to bird watching and bird watching only.

In other words, while Dodson's Sanctuary program is an unqualified success and a significant boost to golf's larger public image, we're a long way from seeing any golf courses on the next Audubon Society calendar. Besides, if Audubon is going back into its shell, Dodson would be more effective, for golf, just where he is.

...

The following notice was received at the GCN offices just before deadline:

Keith Dewar — "an all-time classic person," according to Wadsworth Golf Construction Co. President Paul Eldredge — died in a Dallas hospital in mid-December. Dewar, 73, built many golf courses as owner of American Golf before retiring in 1993. A close friend of Desmond Muirhead and Jack Nicklaus, he built Muirfield Village and Glen Abbey in Ontario as well as most of Nicklaus' early designs.

A transplanted Briton, Mr. Dewar also worked extensively in the Palm Springs area.

However, he will most be remembered for his flamboyant personality. "Keith was one of the great characters of all time — a legend in the golf business," said long-time friend and golf course architect Jay Morrish. "Someone ought to write his biography. Some of his friends were talking about having a wake for him. We could tell tales about Keith for 12 hours straight and never repeat a story."

...

Good news for those Golf Course Superintendents Association of America (GCSAA) members worried about national rattling around their recently expanded, Taj Majalesque headquarters in Lawrence, Kan. Seems the association has finally found a use for the spare wing: Tenants!

That's right. The association is renting out the third floor (old and new wing) and second floor of the new wing to NCS, an Iowa City-based telemarketing firm that plans to employ nearly 100 people in its new Lawrence location. GCSAA employs approximately 80 at its headquarters.

And this from the "It's Always Something" Department: Apparently, parking is now at a premium.

New mgt. firm lends owner's perspective

GLENN DALE, Md. — Sy Zuckerman and Evan Dockser have announced the formation of a new international golf course management company to be called Zuckerman Kronstadt Dockser Golf Services Inc.

Zuckerman, president of Zuckerman Kronstadt Inc., a leading property management companies in the Washington-Baltimore area, says the new company "will bring a true owner's perspective to the industry, which has traditionally been dominated by management-only companies with no ownership experience."

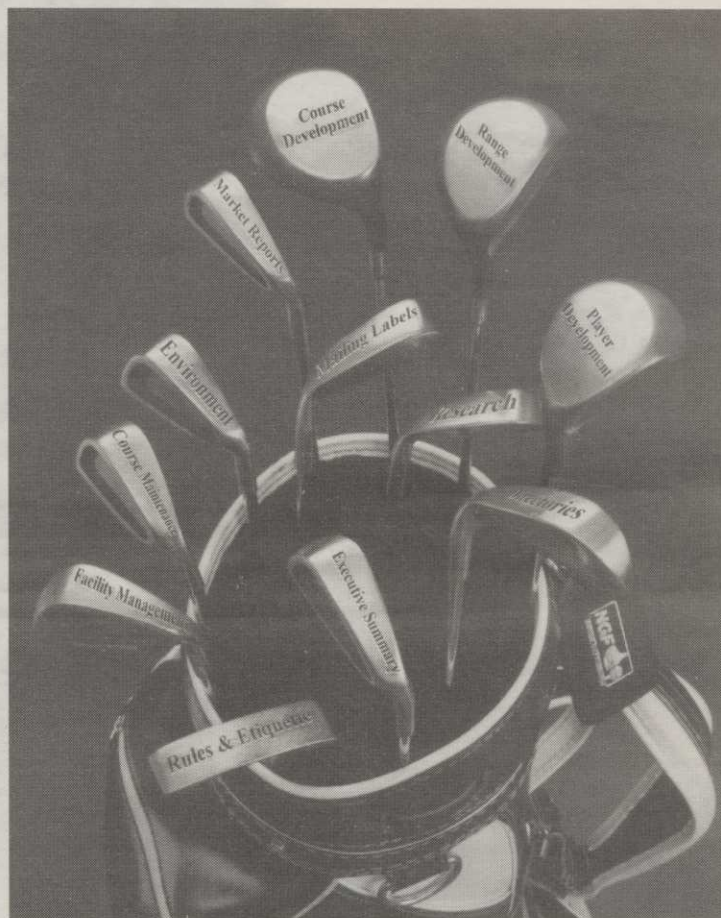
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CIRCLE #144

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When you attend, you'll be part of the only national event that brings together the key professionals at public-access golf facilities:

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- **Participate** in special show events—like Shop Talks—where you'll learn about products and services that impact your bottom line
- **Solve problems** by attending the multi-tracked conference program that focuses on maintenance, management and marketing, and development issues

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Call 207-846-0600 for more information.**

CIRCLE #145

BRIEFS



EPA OKAYS PENDULUM LABEL

WAYNE, N.J. — The federal Environmental Protection Agency has approved an expanded label for Pendulum WDG herbicide from American Cyanamid Co. The new label allows superintendents to use the product over the top of an additional 70 species of ornamental plants. With the new label, Pendulum may now be used to control grasses and broadleaf weeds in more than 260 species of trees, shrubs, flowering beds and ground covers.

ZIELINSKI JOINS TURF-SEED

HUBBARD, Ore. — Gordon Zielinski is Turf-Seed, Inc.'s new executive vice president, a position created to assist President Bill Rose with special projects and international growth. Immediate duties include new product development, marketing packages to distributors, company structure development, and acreage expansion management. Zielinski has a horticultural degree from Oregon State University and has been a bank agricultural finance officer for farms and businesses since 1976.



Gordon Zielinski

MAKELIM TO REP KUBOTA OUT WEST

SO. SAN FRANCISCO, Calif. — H.G. Makelim Co. has joined Kubota Engine Division's national network of gasoline and diesel distributors. Makelim, which serves northern California and northern Nevada, is also a full-service distributor of Kubota and Kohler engines and parts. For more information, contact Glen Firchow at H.G. Makelim Co., 219 Shaw Road, So. San Francisco, Calif. 94080, 415-873-4757.

RANSOMES TAPS GOREE FOR S'WEST

LINCOLN, Neb. — Ransomes America Corp. has hired Tim Goree as territory manager for the Turf Products and Professional Lawn Care divisions. In his new position, Goree will be in charge of sales and dealer relations throughout Arizona, California, Louisiana, New Mexico and Texas, as well as Mexico. A native of Valley Park, Mo., Goree worked for a turf maintenance equipment dealership in South Florida prior to joining Ransomes.



Tim Goree

GCSAA sponsorships continue to mount

Textron, Lebanon the latest firms to sign on

By HAL PHILLIPS

LAWRENCE, Kan. — The Golf Course Superintendent's Association of America (GCSAA) has reached an agreement with Jacobsen, E-Z-GO and Textron Financial Corp., all divisions of Textron, for a multi-year exclusive sponsorship of the association's annual banquet and show.

GCSAA President Joseph G. Baidy said the agreement marks the type of partnership established as one of the central goals in GCSAA's strategic plan for future development of member support.

Textron's banquet sponsorship is the most recent example of golf course industry firms partnering with the GCSAA organization through financial backing.

The association's trade show and conference — scheduled this year for Feb. 20-27, in San Francisco — has been the primary sponsorship target.

For example, The Toro Co. has entered a long-term agreement to sponsor the GCSAA member golf tourney; Ciba Turf and Ornamentals International will co-sponsor the International Lounge; Toro and International Seed will co-sponsor interpreting services for the show's overseas guests; and Pursell Industries/J.R. Simplot Co. will sponsor a reception following Rocky Bleier's keynote address.

However, GCSAA has also made it clear that in-house research and organization functions are fair game. Through

Continued on page 58



The SoMat System was used to test the Jacobsen LF3810.

Putting test results to the test

By GARY ELLERTSON

Acquiring data on any riding mower is difficult because the recording equipment must be portable and impervious to grass, dirt and water.

During the development of the LF3810, Jacobsen used the model 2100 Field Computer System (FCS) from SoMat Corp. of Champaign, Ill. The FCS is a small, portable data acquisition system impervious to the elements, capable of handling multiple channels of data and of being downloaded to a laptop computer in the field. The system's ability to collect multiple channels of data simultaneously helped to quickly identify and solve a pressure spike concern in the prototype.

The main testing focus on this mower was determining reel

speed, pressure, horsepower requirements, operating temperatures, and frame stress under varying duty cycles.

In the past, data acquisition for development projects of this type was accomplished by designing a prototype with a miniature, single-channel, data-logging device. Most turf equipment testing requires multiple-channel acquisition in order to track the effects of important events throughout the various systems. Using a one-channel device made it necessary to repeat events several times, each time connecting the logger to a different sensor. This took large amounts of time and detracted from accuracy because once a swath was cut, it couldn't be repeated — and no two swaths are exactly alike.

After investigating multiple-channel data acquisition alternatives, Jacobsen found a number of portable multiple-channel data-acquisition devices but all were too large to fit on riding turf equipment. Further, they weren't rugged enough to

Continued on page 55



NEW PRODUCT OF THE MONTH

Millcreek Manufacturing Co. has received U.S. Patent protection for its PowerBrush. Millcreek fits a 3-inch long stiff-bristled polyethylene PowerBrush, 22-inches diameter, at the rear. It works with a set of adjustable fins and high-tension bristles designed to flick debris across the ground, like a coin skidding across a table top. For more information on the PowerBrush, contact Millbrook at 1-800-879-6507. For more new products, see page 58.

MID-ATLANTIC TEAMS WITH TEXTRON, BUYS FLYING DUTCHMAN

COLLEGEVILLE, Pa. — Mid-Atlantic Equipment Co., an East Coast distributor of golf cars and industrial utility vehicles based here, has reached an agreement with Textron, Inc. to represent its E-Z-GO division's product lines.

By adding E-Z-GO to its current line of Yamaha vehicles, Mid-Atlantic now offers customers two nationally recognized, proven lines of equipment, according to John Clough, Mid-Atlantic president.

Clough also announced that Mid-Atlantic has purchased Flying Dutchman, Inc., an independent golf car dealership located in Stuart, Fla.



John Clough

Public offering aids Aquagenix expansion

FT. LAUDERDALE, Fla. — Newly capitalized Aquagenix, Inc. has acquired the lake management division of Mitigation Services, Inc., an affiliated company of Jacksonville-based Environmental Services, Inc.

The sale price was approximately \$250,000 in cash and notes, said Andrew P. Chesler, president of Environmental Waterway Management, an Aquagenix subsidiary.

According to terms of the contract, Aquagenix will acquire a portfolio of service contracts in a six-county area covering northern Florida and southern Georgia; assume an office warehouse lease in southern

Jacksonville's Phillips Industrial Park; and purchase aquatic equipment.

Once the acquisition is completed, the new Jacksonville office of Environmental Waterway will be run by Darrell Blackall, former head of aquatic management programs for the St. Johns River Water Control District.

Aquagenix has been one of the golf course industry's busiest firms since going public earlier this year. At last check, the firm had completed its initial public offering of 1.25 million shares of common stock, at \$5 per share, and 1.25 redeemable warrants at \$.10 per warrant.

Continued on page 54

Soil Tech Corp. goes public

FAIRFIELD, Iowa — Soil Technologies Corp., a decade-old producer and international marketer of biological-based natural products for turf and agricultural applications, is preparing to launch an initial public offering to finance expansion.

According to company Chief Executive Officer Jim Schaefer, Fairfield-based Soil Tech will offer up to 850,000 shares of common stock to raise approximately \$5 million in new capital. The money will be used mostly for market-broadening programs and expanded operations support for the company's growing product line. F.J. Gerber & Co. of Sioux City is the lead underwriter and a number of additional brokers/dealers will be participating in placement of the offering.

For more information contact Steve Black of Soil Technologies Corp. at 1-800-221-7645.

Club Car reports record net sales

AUGUSTA, Ga. — Club Car, Inc. (CLBC) reported its 17th consecutive year of record net sales, totaling a 17.4 percent increase over last year's revenues.

Club Car recorded net sales of \$186.1 million for the fiscal year ending Sept. 25, 1994. The figure for the previous fiscal year was \$158.5 million. The company also had record net sales of \$41.4 million for the fourth quarter ending Sept. 25, 1994, up 29.3 percent over net revenues of \$32 million for the same period last year.

Operating income for the year was \$20.2 million, up 34.6 percent from the previous year's figure of \$15 million. Operating income for the fourth quarter was \$1.4 million, up \$2.1 million over the operating loss of \$0.7 million for the same period of the previous year.

Aquagenix

Continued from page 53

Aquagenix has reported consolidated net income of \$141,353 (\$.09 per share) for the third quarter ended Sept. 30, 1994, an 18.8 percent increase over last year third-quarter net income. For the nine months ended Sept. 30, Aquagenix has reported net income of \$410,153 (\$.26 per share), a 21.3 percent increase over the same period one year ago.

Ft. Lauderdale-based Aquagenix has also named three new members to the firm's board of directors: Darrell M. Trent, chairman and chief executive officer of Clean Earth Technologies and former chairman and CEO of Rollins Environmental Services; Dr. Abraham S. Fischler, former president and president emeritus of Nova Southeastern University; and Dr. Gary Krulik, a South Florida orthopedic surgeon.

Best Sand purchases mining operation

BEAVER, Ohio — Fairmount Minerals, the largest privately owned industrial sand company in the U.S. and parent firm to Best Sand Corp., has expanded its operation with the purchase of sand mining and processing facilities here in southern Ohio.

The recently acquired sand plant will operate as a division of Chardon, Ohio-based Best Sand, which supplies

bunker sand to courses in the Midwest.

The new facility, located approximately 20 miles north of Portsmouth, Ohio, was purchased from Schrader Sand & Gravel and brings to four the number of sand mining operations owned and operated by Fairmount Minerals. In addition to the two Ohio locations, the company has facilities in Wedron, Ill., and Bridgman, Mich.

Pennington elects board members

The Directors of Pennington Seed, Inc. elected the following corporate officers:

Brooks Pennington, chairman of the Board; Brooks Pennington III, president and chief executive officer; Dan Pennington, senior vice president and chief operations officer; Robert Pennington, senior vice president, Grain & Farm Operations; Ronnie Stapp, senior vice president, Seed Operations; Grady Gill, senior vice president, treasurer, corporate secretary; Richard Best, senior vice presi-

dent, distribution Operations; Steve Triplett, vice president, National Accounts (Senior Management Committee member).

All remaining officers currently in service were re-elected. In addition, the following new positions were created: Roger Mosshart, vice president, Pennington Seed, Inc., Louisiana Division; Kevin Smith, assistant vice president, Pennington Seed, Inc. Advertising Dept.; Carol Seabolt, assistant vice president, Pennington Seed, Inc., Management Information Services.

TURF DISEASES HAVE BAYLETON FOR WE

To stop enemy turf diseases from gaining a beachhead on your course, do what golf course superintendents have been doing for 15 years. Apply BAYLETON® Turf and Ornamental Fungicide. No other fungicide on the market has the proven history of preventing the toughest turf diseases.

Whether the adversary is summer patch, dollar spot, anthracnose or any number of other major turf diseases, BAYLETON consistently delivers unsurpassed control. And it's systemic for long residual. So after the initial application, BAYLETON has just begun to fight.

It's a good tactic to apply BAYLETON over your entire course. By applying it on your fairways,

Deere reorganizes Lawn & Garden

RALEIGH, N.C. — Streamlined product development, focused dealer service and enhanced customer satisfaction are behind a new market-based structure recently implemented by the John Deere Lawn & Grounds Care Division based here.

The division is structured into product groups to serve key markets: commercial, golf & turf (golf, commercial and sports field); lawn & garden products (rear-engine riding mowers through tractors); and power products (hand-held and walk-behinds).

Each group has responsibility to develop new products, support the retailer organization and fill orders, advertise products and support end users. All product groups share support services such as public relations and overall business development.

"This is not a major upheaval of jobs and people, but more a realignment to position John Deere for an aggressive effort in what we have identified as our key markets," said Bob Tracinski, manager of public relations for the new division.

EPA APPROVES PRIMO'S WETTABLE POWDER

WASHINGTON, D.C. — The federal Environmental Protection Agency has approved registration of Primo WSB, a new wettable powder formulation packaged in water-soluble bags. Primo WSB, a product of Greensboro, N.C.-based Ciba, may be used to regulate turf growth on golf courses. The new Primo product is also labeled for putting surfaces.

Field testing

Continued from page 53

withstand the constant buffeting with cut grass, water and dirt.

Then, the company heard about the SoMat Model 2100 FCS, the first commercially-available device capable of multiple-channel data collection in field-testing applications. The Model 2100 FCS consists of a series of stackable modules which are mated together in a bus-like architecture and packaged in an aluminum case for rugged field testing applications. When the test request for the 3810 came in

from the engineering department, Jacobsen had already purchased a four-channel 2100 FCS and had gained some experience with the unit.

The prototype was set up with the 2100 FCS and appropriate inputs for strain gauge pressure transducers. A laptop computer was used to program the 2100 FCS. Then, it was taken out to a local golf course for a number of endurance runs which focused on cross-cutting cycles which involve stopping and starting drive motors every 15 to 20 seconds.

Back in the lab, the device was downloaded into a laptop computer running SoMat Test Control Software (TCS) which downloads the data and displays it on the screen as desired. It was immediately apparent that start-up spikes in the hydraulic reel motors in the prototype design were of concern.

Collecting three channels of data at one time, it was relatively easy to trace the spike from the drain line to the valve to the motor and determine the cause of the problem was an electrical solenoid valve used in the prototype. The response time of the valve was so short that it produced a pulse that could be tracked throughout the hydraulic system by graphing the three channels of data simultaneously on the screen.

The solution was replacing the valve with a special soft start-up model that ramped up to the desired speed. Collecting only a single channel at a time would have made it very difficult to sort out the relative effects of each of the components in the hydraulic line. Other important aspects of the testing program included strain gauge work on critical frame areas which insure that structural limits would not be exceeded when the four-wheel drive option was added to the mower. Temperature testing for various hydraulic components was also conducted.

With the one-channel device it was necessary to download data into the desktop computer after each run which took about a half-hour per run.

A laptop computer can be connected to the SoMat model 2100 FCS to view data immediately after the test is completed — or even in real time, while the test is running. This time-saving feature makes it possible to immediately determine whether appropriate data is being generated so that a test can be re-run immediately if necessary.

Generally, the model 2100 FCS is bolted to the fender of the equipment, although the latest models have gloveboxes into which the units can be tucked. The unit can be self-powered with three 9-volt batteries thus eliminating the need to provide power from the vehicle for short duration tests. The entire unit, including laptop computer, fits into one oversized briefcase which can be packed as carry-on luggage.

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you'll keep golfers from tracking disease up on to your greens and tees. And you'll get excellent control of powdery mildew and rust on ornamentals. What's more, BAYLETON comes in water soluble packets for easy mixing and less applicator exposure.

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MILES 



CIRCLE #146

Tralies appointed president of Jacobsen

PROVIDENCE, R.I. — Philip J. Tralies has been appointed president of Jacobsen Textron in Racine, Wisc., according to Textron, Inc., the parent company based here.

Tralies, 48, has been with Textron for 17 years, most recently as senior vice-president of finance and administration at E-Z-GO Textron in Augusta, Ga.

In other Jake news, the company has given **Tresca Industries, Inc.**, the responsibility for eight additional counties along

Florida's central west coast. Tresca is already an authorized Jacobsen dealer in northern and central Florida. Tresca is headquartered in Jacksonville and maintains full-service branches in Orlando and Tampa.

Jacobsen officials have also announced several personnel changes in customer service and product support:

Tony Saiia is now vice president customer service and product support, a newly created position. Saiia, formerly vice

president of engineering, is responsible for Jacobsen's product management, customer service and product training divisions.

Steve Yolitz joins Jacobsen as director of product management. Yolitz will be responsible for Jacobsen's product planning activities, coordinating product improvement and new product development requirements.

Terry Herlihy joins Jacobsen as a product manager. Herlihy will manage new product development



Philip J. Tralies



Tony Saiia

and current product updates.

Bob Krick has been named manager of product and service training. Krick will be responsible for all product and service training activities. Krick previously served as product planning manager.

Textron bolsters European stance with ORAG buy

PROVIDENCE, R.I. - Textron Inc. has acquired ORAG, one of Europe's leading distributor of golf and turf care equipment. Textron acquired certain assets of ORAG Inter AG — the Baden, Switzerland-based parent company — and the stock of four of its subsidiaries in Denmark, Germany, Italy and France. ORAG posted sales of \$30 million in 1993.

"This acquisition enables Textron to expand ORAG's role to include market development, sales and distribution of our E-Z-GO golf cars and Jacobsen products throughout Europe," said James F. Hardyman, Textron's chairman and CEO. "We will be better positioned to capitalize on market opportunities and expand market share in Europe."

Hardyman said the acquisition, terms of which were not disclosed, supports Textron's strategy to expand into international markets. Textron currently derives 28 percent of its revenues from international activity and plans to increase that number to 35 percent over the next five years.

Hoover Containment acquires LRS, Inc.

ALPHARETTA, Ga. — Hoover Containment Systems, Inc. — a wholly-owned subsidiary of the Hoover Group, Inc. — has completed the acquisition of substantially all of the assets, including the portfolio of patents, of LRS, Inc. of South El Monte, Calif.

LRS, Inc. was a manufacturer and distributor of aboveground storage tanks on the West Coast and owned numerous patents covering aboveground storage tanks.

Hoover has also announced it will locate a new manufacturing facility in Clanton, Ala.

The facility will manufacture and assemble aboveground storage tanks. It is anticipated the facility will begin manufacturing during 1995 and will employ 25 people within 12 months. Employment at the facility could reach 65 within 3 years. Hoover products are marketed under the Hoover and Lube Cube names.

SEED RESEARCH OF OREGON CONSOLIDATES TEXAS OFFICES

DALLAS — Seed Research of Oregon's Dallas and Houston operations have consolidated into location here at the Dallas facility. Michael Schupp, manager of the Dallas distribution and warehouse facility, has been appointed to head up the combined operation. Schupp, who will also be in charge of managing the Texas sales force and distributor network, can be reached at 214-350-2672.

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Special review of triazines could lead to cancellations

WASHINGTON, D.C. — The U.S. Environmental Protection Agency (EPA) has begun a Special Review of three chemically similar pesticides known as triazines to determine how seriously their residues affect food and drinking water.

The triazine pesticides — atrazine, cyanazine and simazine — are used to control broadleaf weeds and some grasses and are among the most widely used agricultural pesticides. The EPA has determined each of these pesticides could pose a significant risk to public health. The Special Review could lead to restrictions or even cancellation of the pesticides.

EPA studies with animals have shown that all three of the triazines under review produce mammary tumors in some strains of rats. They may also contribute to the still-increasing rate of breast cancer in American women, according to the EPA.

Triazines are among the most used pesticides in the U.S. on a volume basis. The EPA estimates about 90 to 120 million pounds of triazines are used annually in the U.S. Field corn accounts for about 80 percent of this use with sorghum accounting for another nine percent.

On golf courses, the triazines are used primarily as pre-emergent pesticides on warm season turfgrass.

The EPA has already taken actions to reduce the potential risks of the triazine products. In 1990, the use of atrazine was restricted to certified applicators (except for certain home turf products), application rates were reduced, protective clothing for agricultural workers was added as a label requirement, and application near wells was prohibited to protect ground water.

Then, in 1992, additional label changes were approved, including a further reduction in application rates, the requirement of buffer zones near surface waters, and deletion of non-crop uses. Similar label changes have also been approved for cyanazine,

EPA ROUND-UP

including restricted use.

•••
The EPA has released a report describing the results of a 1992 agency initiative to reduce acute risks posed to birds by 12 granular pesticides.

The report, "Avian Granular Risk Reduction Initiative," indicates that most of the registrant/manufacturers of the 12 pesti-

cides participated in the initiative. The pesticides are diazinon, chlorpyrifos, methomyl, fonofos, disulfoton, fenamiphos, beniodicarb, aldicarb and ethoprop.

Measures taken to reduce risks to birds include label changes for lower application rates, more complete soil incorporation of granules, new application technologies, limiting the number of applications per season, scouting to determine infestation levels before applying pesticides and cancelling certain

uses. Three of the pesticides — terbufos, phorate products and isofenphos — did not receive label amendments or other measures.

To obtain copies of the report call the Communications Branch in the Office of Pesticide Programs at 703-305-5017.

•••
A new reference book on integrated pest management (IPM) — the EPA's 650-page "Handbook of Integrated Pest Management for Turf and Ornamentals"

— covers management of insects, weeds, diseases in turf, trees and shrubs. The material was compiled by more than 80 researchers and experts from the U.S. The book was planned, organized and edited by Anne R. Leslie, an employee in EPA's Office of Pesticide Programs who is nationally recognized for her efforts to prevent pollution and develop IPM, particularly on turf. Royalties from the book will go to a non-profit organization associated with the National Park Service to support future IPM projects. For more information contact Al Heier at 202-260-4374.

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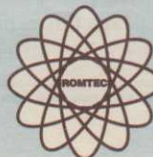
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VICKSBURG TAPS GOLD KIST FOR DISTRIBUTORSHIP

MEMPHIS, Tenn. — Vicksburg Chemical Co. has selected Gold Kist, Inc. to provide distribution services for its turf products in Alabama, North and South Carolina, and Georgia. Vicksburg Chemical manufactures K-Power, a line of potassium nitrate-based fertilizers for turfgrass. The K-Power line features numerous varieties of potassium nitrate-based products, including controlled-release mini-prills for both greens and fairways and water soluble blends. For more information contact Steve Derrick, Turf Products Manager at Gold Kist, at 404-393-5465.

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The Bunker Pumper floating, portable pump, manufactured by Otterbine-Barebo, is designed to be an efficient, easy method of getting water out of the way fast. This self-priming pump removes water from sand traps, swimming pools and other low-lying areas.

Capable of starting in as little as 3 inches of water, the Bunker Pumper can pump 280 gallons per minute. Features include a Briggs & Stratton 8-horsepower engine and a cast aluminum alloy pump with built-in suction screen and skids. Weighing in at only 85 pounds, the pump is designed for easy handling. For more information, contact Otterbine-Barebo, Inc., 3840 Main Road East, Emmaus, Pa., 18049; or call 1-800-AER8TER.

CIRCLE #301

Merit, smaller bottle

Miles Inc.'s new insecticide Merit 75 WP, developed for season-long control of insects on turf and ornamentals, is now available in two-ounce bottles for smaller applications.

Merit 75 WP can be used to control white grub larvae, billbugs and annual bluegrass weevils on golf course. It is best used when soil applied at low-use rates. Its low toxicity poses reduced risks to applicators and non-target species.

For more information contact Miles Inc. at 8400 Hawthorn Road, P.O. Box 4913, Kansas City, Mo. 64120-0013, or call 816-242-2000.

CIRCLE #302

New 'spray-dry' Ultrex

ISK Biosciences has launched an advanced "spray-dry" formulation of its new Daconil Ultrex fungicide that it claims not only mixes faster and stays in suspension longer, but also stays on foliage longer and provides better control of brown patch.

The new formulation produces tiny, sand-like particles that pour with little dust, go into solution with little foaming and begin mixing when they hit water, according to ISK. Daconil Ultrex is labeled for control of 14 other major diseases of warm- and cool-season turf in addition to brown patch, including dollar spot, leaf spot, snow mold. For more information contact ISK Biosciences at 1-800-241-4128.

CIRCLE #303

Roll-over protection

If work-vehicle rollovers are a possibility at your golf course, Ransomes America Corporation may have a safe answer.

Ransomes has introduced a new roll-over protection system (ROPS) for Cushman Turf-Truckster and Cushman Jr. Turf-Truckster work vehicles. The four-post tubular-steel configuration meets federal work-safety requirements.

The system is designed to be attached to any Turf-Truckster built after 1981 and comes standard with two seat belts.

For more information contact Ransomes America Corporation, P.O. Box 82409, Lincoln, Neb. 68501, or call 1-800-228-4444.

CIRCLE #304

New weather sensor

Weather Metrics, Inc. has developed a stand-alone weather station that can monitor up to 200 sensors, seven weather parameters and also calculate evapotranspiration for up to six crop coefficients.

The Turf Watch Weather Station does not require a computer. But with a computer, the station's software works within Microsoft Windows. Data is read at .8 second intervals, averaged, and recorded at increments defined by the user.

For more information call Weather Metrics, Inc. at 1-800-869-6629.

CIRCLE #305

Classen core aerator

Classen Manufacturing Inc. has added the new TA-19 self-propelled roll-type core aerator to its turf equipment line.

The machine is powered by a 4-horsepower Honda engine and will cover up to 24,000 square feet per hour. Other features include a rugged one-piece frame with removable weight bar and user-friendly handle and controls. The unit fits easily through a 30-inch gate.

For more information contact Classen Manufacturing Inc. at 1403 Pine Industrial Road, P.O. Box 172, Norfolk, Neb. 68701; or call 402-371-2294.

CIRCLE #306

GCSAA sponsorships

Continued from page 53

what the GCSAA calls a "major financial contribution" from Lebanon Turf Products, the association will begin collecting and cataloging information on golf course-related environmental issues.

This body of data, dubbed the "Environmental Resources Library," will include appropriate scientific and technical journals, references, textbooks, trade and advocacy group magazines. The GCSAA's Technical Information Services department will oversee the new library.

Other non-show sponsorships include Ciba's backing of the GCSAA Certification Luncheon (held at the show) and the Environmental Steward Awards, co-sponsored by Ciba, RainBird and Jacobsen.

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| 5. | Maintenance on a Shoestring | 15. | Environmental and Turfgrass Research—What We've Learned |
| 6. | Dealing with Traffic: Maintaining Quality in the Face of High Volume | 16. | Maximizing Equipment Productivity |
| 7. | Water, Energy and Wildlife Conservation Measures on the Golf Course | 17. | Staffing for Success |
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* Audio tapes of this session are not available

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January

2-March 10 — *Rutgers Professional Golf Turf Management School in New Brunswick, N.J.* Contact 908-932-9271.

3-5 — *Wisconsin Turfgrass & Green Industry EXPO in Madison.* Contact 608-262-1490.

5-6 — *GCSAA seminar on Protection of Water Resources in Atlanta.* *

6 — *GCSAA seminar on Implementing Strategies & Plants for Turfgrass Environmental Systems in Red Deer, Alberta, Canada.* *

9 — *GCSAA Technician Training for Irrigation Specialists in Nashville, Tenn.* *

9-10 — *GCSAA seminar on Introduction to Soil Science in Birmingham, Ala.* *

9-20 — *10th Annual Cornell Turfgrass Short Course in Ithaca, N.Y.* Contact 607-255-17789.

11 — *GCSAA seminar on Turfgrass Stress Management in Charlotte, N.C.* *

10-12 — *Eastern Pennsylvania Turf Conference and Trade Show in King of Prussia, Pa.* Contact Scott Guiser at 215-932-9271.

11-13 — *North Carolina Turfgrass Conference and Show in Charlotte.* Contact 910-695-1333.

12 — *GCSAA Technician Training for Spray Technicians in City of Industry, Calif.* *

12 — *GCSAA seminar on Golf Course Safety, Security and Risk Management in City of Industry, Calif.* *

13 — *GCSAA seminar on Wildlife Management and Habitat Conservation in Cincinnati*

16 — *GCSAA Technician Training for Spray Technicians in Indianapolis.* *

17-18 — *17th Annual International Sport Summit in New York.* Contact 301-986-7800.

17-18 — *GCSAA seminar on Golf Course Design Principles in St. Charles, Ill.* *

17-19 — *65th Annual Michigan Turfgrass Conference in Lansing.* Contact Kay Patrick at 517-321-1650.

17-19 — *Cook College IPM short course at New Brunswick, N.J.* Contact 908-932-9271.

18 — *Professional Turf & Landscape Conference in White Plains, N.Y.* Contact 914-636-2875.

19 — *GCSAA Technician Training for Spray Technicians in Powell, Ohio.* *

19 — *GCSAA seminar on Wildlife Management and Habitat Conservation in Vancouver, B.C., Canada.* *

19-20 — *GCSAA seminar on Golf Course Restoration, Renovation & Construction Projects in Cromwell, Conn.* *

23-25 — *61st Annual Turfgrass Conference and Trade Show in Des Moines.* Contact Steven Cook at 515-243-7777.

23-26 — *35th Virginia Turf and Landscape Conference and Trade Show in Richmond.* Contact Bruce Tharp at 804-340-3473.

24 — *GCSAA Technician Training for Spray Technicians in Rochester, N.Y.* *

24-25 — *GCSAA seminar on Public Relations and Presentation Skills in Pittsburgh.* *

26 — *Inland Northwest Turf and Landscape Trade Show in Spokane, Wash.* Contact 509-535-8305.

26 — *GCSAA Technician Training for Irrigation Specialists in Albany, N.Y.* *

27-30 — *PGA Merchandise Show in Orlando, Fla.* Contact 407-624-8400.

30-31 — *Louisiana Turfgrass Ass'n/Louisiana State University Agricultural Center Turfgrass Conference in Baton Rouge.* Contact 504-388-2158.

30-Feb. 3 — *Club Managers Association*

Continued on next page

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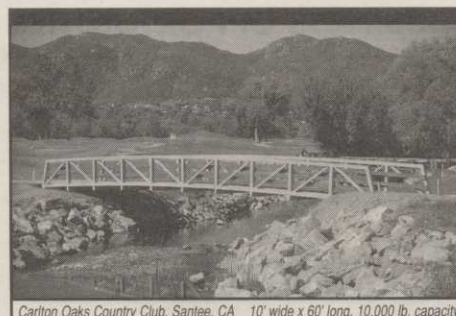
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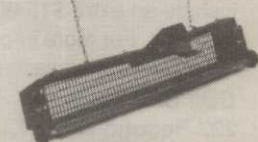
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tion of America Annual Conference and
Exposition in New Orleans. Contact 703-
739-9500.

February

1 — GCSAA Technician Training for
Equipment Managers in Suffern, N.Y. *

1 — GCSAA seminar on Practical Tree
Management in Suffern, N.Y. *

1-2 — Turf & Grounds Exposition II in
Suffern, N.Y. Contact NYSTA at 800-873-
TURF.

3 — GCSAA Technician Training for
Equipment Managers in York, Pa. *

6 — GCSAA Technician Training for
Spray Technicians in Sioux Falls, S.D. *

7-10 — Third Annual Louisiana State
University Turf School in Baton Rouge.
Contact 504-388-2158.

20-27 — GCSAA International Confer-
ence and Show in San Francisco. *

21 — GCSAA Technician Training for
Spray Technicians in Coral Gables, Fla. *

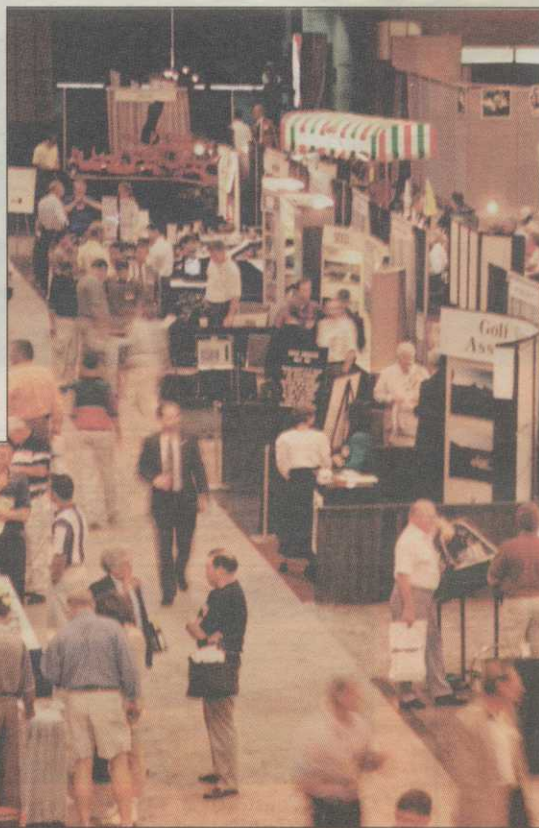
24-26 — 7th Annual West Michigan Golf
Show. Contact 616-247-1931.

28 — GCSAA Technician Training for
Spray Technicians in Oak Brook, Ill. *

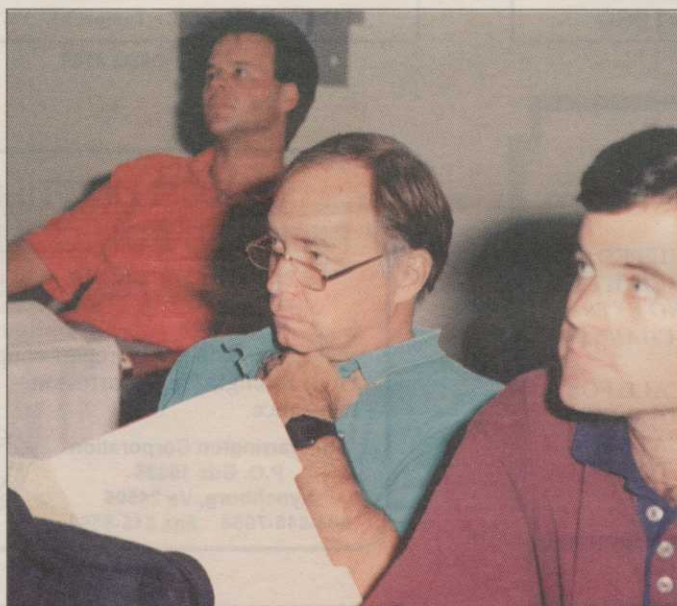
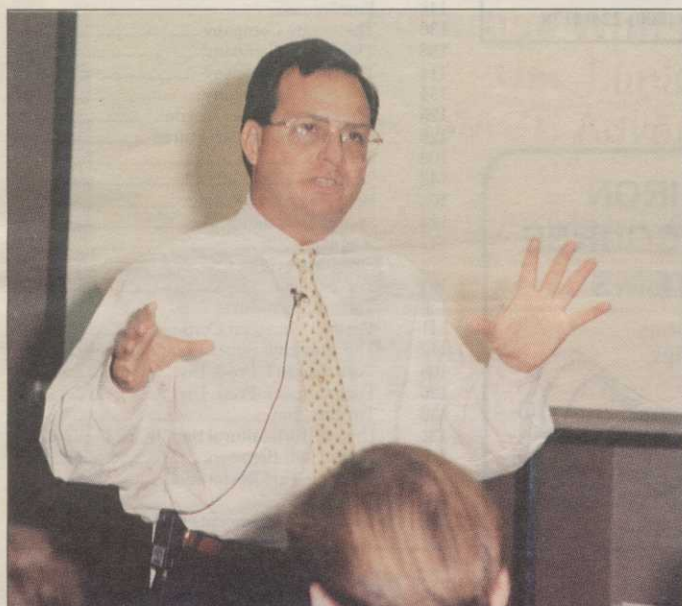
30 — GCSAA Technician Training for
Spray Technicians in Lake Harmony, Pa. *

* For more information contact the
GCSAA Education Office at 913-832-4430.

Golf Course Expo opens to acclaim



The inaugural **Golf Course Expo**, the only national trade show and conference for owners, managers and superintendents at public-access facilities — was a success, drawing more than 1,500 qualified attendees and 100 exhibitors to Orlando in November. Arnold Palmer and Robert Trent Jones Jr. keynoted the event, and more than 250 packed the education sessions. Clockwise from top: ClubCar's Mike Alexander writes up an order; the trade show floor proved to be a busy place; Shop Talks — vendor-sponsored presentations held right on the show floor — played to capacity crowds; and conferees listened closely to knowledgeable speakers like Gregg Gagliardi (below) of Lansbrook Golf Course in Palm Harbor, Fla.



Expo '94: Sharing info

Continued from page 11

Florida Green magazine and superintendent at Walt Disney World's Magnolia Course, added: Use amendments like rubber/"poly" prills, geotextile fibers, wetting agents, humic acids/biostimulators.

- USGA Florida Section agronomist Chuck Gast urged lowering energy consumption with growth regulators, efficient pump stations, variable frequency drives and fertigation; and bettering the situation for wildlife with nature zones, buffers, nesting cavities and feeding zones.

- From USGA Florida Section Director John Foy's suggestions were: apply fertilizer only to meet the need of turf to recover from traffic and maintain density; and use slow-release fertilizers, or lightly but more frequently apply fast fertilizers to minimize leaching.

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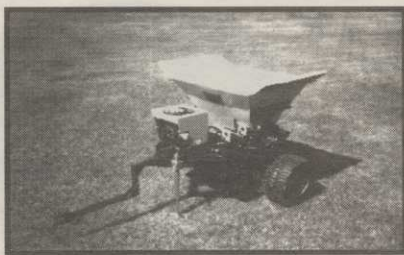
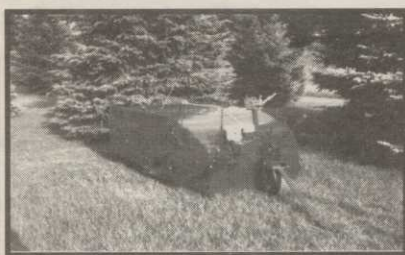
Meanwhile, golf course managers wrote myriad money-making tips such as these from GM-PGA head pro Gregg Gagliardi of Lansbrook Golf Club and Elaine Fitzgerald of Fitzgerald Productions:

- From Gagliardi: "We added a 'Beat the Pro' challenge and put the teaching pro on the tee. We gambled between \$5 and \$20. The golfers can't lose, because if they don't beat the pro they get \$5 credit in the pro shop. If they do beat him, they double their money. If they play, they get their name in a free drawing."

He also added associate and international memberships. Hooking up with a German travel agency, he sold 300 associate memberships at \$40 apiece. "So we got \$12,000 in income, and I have yet to have a German come over and play," he said.

- From Fitzgerald: "We offered hotels a reason to fill rooms. With tourism starting to go down in Florida, hotels without amenities ... can use our course as an amenity."

The course offered a commission to the hotel concierges for every visitor they sent. "We got our own salespeople working at each of 25 hotels," she said. "One made \$7,000 alone from this, so she worked very hard."



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