

GOLF COURSE NEWS

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INSIDE

First Soil Labs Certified

Brookside Laboratories and Thomas Turf Services beat others out of the block 15

Personnel Perspectives

Golf Course News begins a new monthly column from management consultant Vince Alfonso Jr. 57

Georgia aquifer off limits

By HAL PHILLIPS

BRUNSWICK, Ga. — Salt water is invading the Floridan Aquifer, the primary source of drinking water for the state's southeastern region, the Hilton Head area of South Carolina and Jacksonville, Fla.

If a Georgia Department of Natural Resources (DNR) proposal gains approval, new golf course developments here in coastal Georgia will no longer be allowed use of the Floridan. Further, the DNR has warned existing golf courses now utilizing the aquifer that other irrigation options should be explored.

"We will be talking to

Continued on page 49

Court backs club's right to privacy

By PETER BLAIS

CHICAGO — The recent Chicago Club court ruling reaffirming the exempt status of private clubs from certain federal employment provisions is a victory for the club industry, but should serve as a warning that clubs, including golf clubs, must be prepared to defend themselves against discrimination charges.

"There are groups out there willing to litigate and the private club industry needs to be ready," noted James Singerling, executive director of the Club Managers Association of America, adding that The

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OCTOBER 27-29 • 1996



Peter Jacobsen

Jacobsen to keynote Public Golf Forum

By HAL PHILLIPS

CHICAGO — Touring professional and course designer Peter Jacobsen will keynote the Public Golf Forum here at the Lincolnshire Marriott on Oct. 28. Sponsored by *Golf Course News*, the Forum is the only national conference and trade show specifically serving superintendents, owners, managers and developers of public-access golf courses.

Jacobsen/Hardie Golf Design, a joint venture with Houston-based golf course architect Jim Hardie, has specialized in the development of public-access

courses. All four of Jacobsen/Hardie's finished products, in addition to five under construction, are open to public play. At the Forum, Jacobsen's keynote address will explain why the public-access market continues to dominate not only his firm's attention but the nation's golf course development market, as well. During his keynote, Jacobsen will also discuss life on tour and take questions from the audience.

A six-time tour winner, including back-to-back victories at Pebble Beach

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A CUB'S-EYE VIEW

A curious Cub Scout inspects a birdhouse during a trip down the Blue Bird Trail at Glynn's Creek Golf Course in Long Grove, Iowa. Glynn's Creek provides great examples of environmental activism and community outreach. For story, see page 15.

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NUGENT'S HARBORSIDE HONORED

The American Academy of Environmental Engineering (AAEE) has awarded Harborside International Golf Center — a 36-hole development built on a former landfill in Chicago — its 1996 award for Superior Achievement in Environmental Engineering. The AAEE honor is but one of several earned by Harborside, designed Long Grove, Ill.-based architect Dick Nugent who will present a case study of the Harborside project at The Public Golf Forum in October. For details on the Forum and Harborside's growing list of accolades, see page 38.

Irrigation solves biological application problems?

By MARK LESLIE

EAST LANSING, Mich. — Sparkling results despite horrid weather and soil conditions have researchers and golf course superintendents predicting a bright future for once-disparaged biological-control agents.

"We're right at the beginning of what should be a fairly long road to biological control," said Dr. Joseph Vargas of Michigan State University here. "At least we have the key to open the door. That key is a means of frequent application."

The frequency provider to which Vargas refers is BioJect, a sort of on-site brewery for disease-suppressive bacteria manufactured by EcoSoil Systems of San

H₂O REPORT:
IRRIGATION &
PUMPING STATIONS,
SEE PAGES 32-35

Diego, Calif. Because it is connected to a course's irrigation system, the 175-gallon BioJect "bioreactor" can deliver the bacteria — like Vargas' *Pseudomonas aureofaciens* — to the turfgrass daily. Thus it

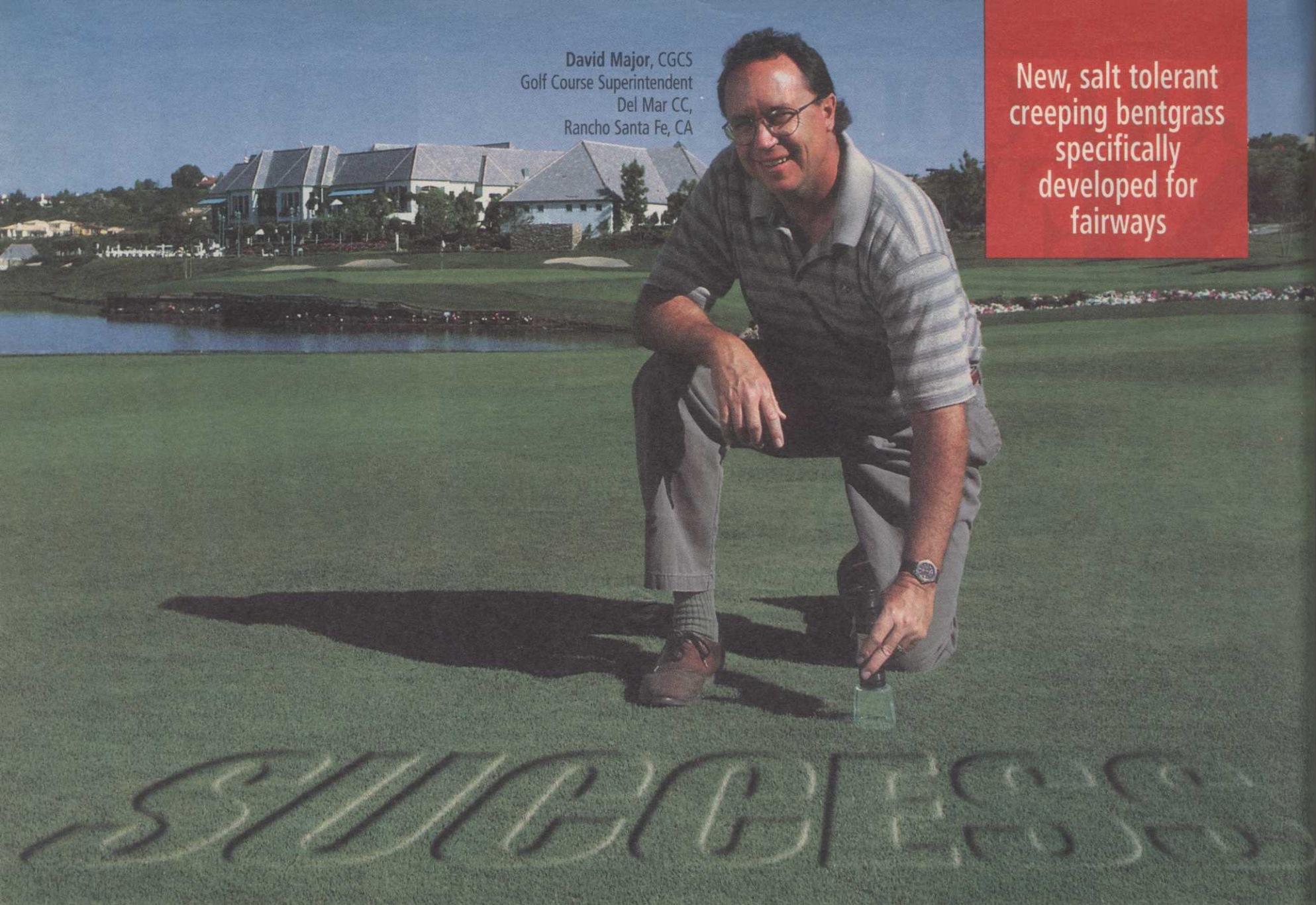
overcomes the major roadblock to effectiveness of the biological-control agents: the need for frequent application to build up a population in the soil. Until now, the only method of applying *Pseudomonas aureofaciens* was by mixing dormant bacteria from a bottle into a spray wagon.

When Vargas discovered *Pseudomonas*, a broad-spectrum, general-contact fungicide, and tried applying it once a week, or

Continued on page 35

David Major, CGCS
Golf Course Superintendent
Del Mar CC,
Rancho Santa Fe, CA

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developed for
fairways



Ninth hole, Del Mar CC; Joe Lee, architect

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in the future, we will slit seed with Seaside II, where needed, to enhance turf quality.

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Seaside II has success written all over it. - David Major

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IN BRIEF

ATKINSON, N.H. — The new nine-hole Atkinson Country Club & Resort recently opened for play in southern New Hampshire near the Massachusetts border. Atkinson is a full-sized, nine-hole public layout. The course features two par-3s, both of which measure more than 200 yards from the back tees. The course is owned by Peter Lewis. The superintendent is Jay Wood.

FORT COLLINS, Colo. — Fort Collins has become one of the few municipalities to ban metal spikes on golf shoes. The city's public courses have permanently banned the metal spiked shoes in hopes of keeping better-quality putting greens and other surroundings. Fort Collins is believed to be the first city in Colorado to ban metal spikes.

LOGAN, Utah — The city is turning over management of the 18-hole Logan River Golf Course to Links Management of Salt Lake City in hopes of increasing play and making more money. The city has signed a one-year contract with Links Management, which took over operations in early July. Links, which has its offices at Eaglewood Golf Course in North Salt Lake, also manages Entrada Golf Course in St. George. Links is a subsidiary of Forsgren Associates Engineering, which helped design the Logan River course.

Rolling Greens photo/Ken May



Muni project breathes life

The 1st hole at Keith Foster-designed Buffalo Run, a municipal project in Commerce City, Colo.

By MARK LESLIE

COMMERCE CITY, Colo. — Foreseeing a renaissance of sorts in their community, Commerce City officials are looking forward to Aug. 9, when Buffalo Run, their municipal golf course and residential development, opens on the north end of town.

Commerce City was stagnating, having had no new development in the past five years. To capitalize, in part, on the new Denver International Airport, and with "a vision for the community," city leaders decided to build the course and create housing, said course architect Keith Foster. "The course is

the hub of the community."

The property contains several buffalo hollows. A windy site whose soil is blow sand, it has a links-like feel to it, he said. "The inspiration for the design was British Isles. It is a wide-open course that captures the wonderful dimensions of scale on this piece of ground. It has an elevation of 5,600 feet above sea level. You can see forever and the course has that feel to it. The bunkering is very dramatic and cut into the ground."

With a goal toward flexibility, Foster — who will speak at the *Golf Course News*-sponsored Public Golf Forum Oct. 27-29, in Chicago — designed five sets

of tees that allow the course to play from 4,800 to 7,500 yards. Ironically, it sports both the second-longest (from the back tees) and fourth-shortest course (from the front tees) in Colorado. The track will boast bentgrass greens, bluegrass-ryegrass tees and fairways, and fescue blends in the roughs. Framing the track, the outer rough consists of native grasses — buffaloes, switch grasses and Indian grasses.

Neibur Golf of Colorado Springs built the course and Bill Zmistowski designed the clubhouse, which "feels like an old homestead," Foster said. A pavilion, cart barn and maintenance facilities are all part of the same compound, like a homestead.

Meanwhile, Foster is finishing his touches on the private Washington Golf Club outside Kent, Wash.

Nine holes will open for members later this summer and the entire 18 will open next spring, he said.

"I've been involved in a lot of projects," Foster said, "but the site at Washington Golf Club is stunning. Mt. Rainier looks down on it. The tree cover is incredible. The terrain is perfectly suited for golf."

"We're trying to reflect the design philosophy of classic architecture," he said. "The bunker styling is reminiscent of San Francisco Golf Club. It has classic box tees; smaller, subtle green surfaces; very wide and accommodating fairways... We have a client [Scott Sasaki of Alaska] who has created a

Continued on page 70

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Tenn. officials name new courses after Nicklaus

NASHVILLE, Tenn. — Southern neighbor Alabama has the Robert Jones Trail. Now Tennessee has The Bear Trace.

Bear Trace is the new name state officials are giving to the series of four Jack Nicklaus-designed daily-fee courses under construction in four state parks.

The \$20 million project will create new championship-caliber 18-hole layouts in the east, central and western parts of Tennessee — Cumberland Mountain State Park in Crossville, Chickasaw

State Park in Henderson, Harrison Bay State Park in Chattanooga and Tims Ford State Park in Winchester. Cumberland Mountain is the first course expected to open, in July 1997. Chickasaw should open by September 1997 and Harrison Bay and Tims Ford will open in 1998.

Trace is a name often used in the South referring to a trail or route used by animals or people, often with historical, cultural and even mysterious origins. Tennessee is already home to one well-known trace, the Natchez Trace, a

lush, winding strip of green space that starts just south of Nashville and angles southwest through Alabama and down to Jackson, Miss.

Bear Trace is being built for the state by a development partnership of Golf Services Group of Houston, Whitley Development Group of North Palm Beach, Fla., and Wadsworth Golf Construction Company of Plainfield, Ill. Tennessee Golf, Inc., will lease, operate and market the courses for an initial 25-year period, with a 15-year extension option.

Bardmoor receives \$500,000 remodel

SEMINOLE, Fla. — A \$500,000 renovation project on the 18-hole course at the private Bardmoor Golf Club has transformed a worn-down site to a snazzy, new looker.

The 25-year-old course was shut down to the public in late May of this year. The course now has new grass, enlarged and regraded tees and greens and resurfaced cart paths. The greens have been expanded from a total of

66,000 square feet to 90,000 square feet. They were planted with Tifdwarf Bermuda sod that had been grown on plastic and was ready for play in 30 days. Bardmoor's own construction company, Green Visions, did the work.

The golf course isn't the only thing to change at Bardmoor. Construction will start on a new \$875,000 clubhouse in early August.

Myrtle Beach escapes Bertha

MYRTLE BEACH, S.C. — Myrtle Beach area courses, which are often vulnerable to hurricanes, were spared the wrath of Hurricane Bertha.

All courses closed for several days as the storm brushed the South Carolina coast, but they experienced no major damage, except the loss of a few trees.

"We were fortunate to escape the brunt of Hurricane Bertha," said Dave Honeycutt, general manager of Myrtle Beach Golf Holiday. "It's business as usual in Myrtle Beach."

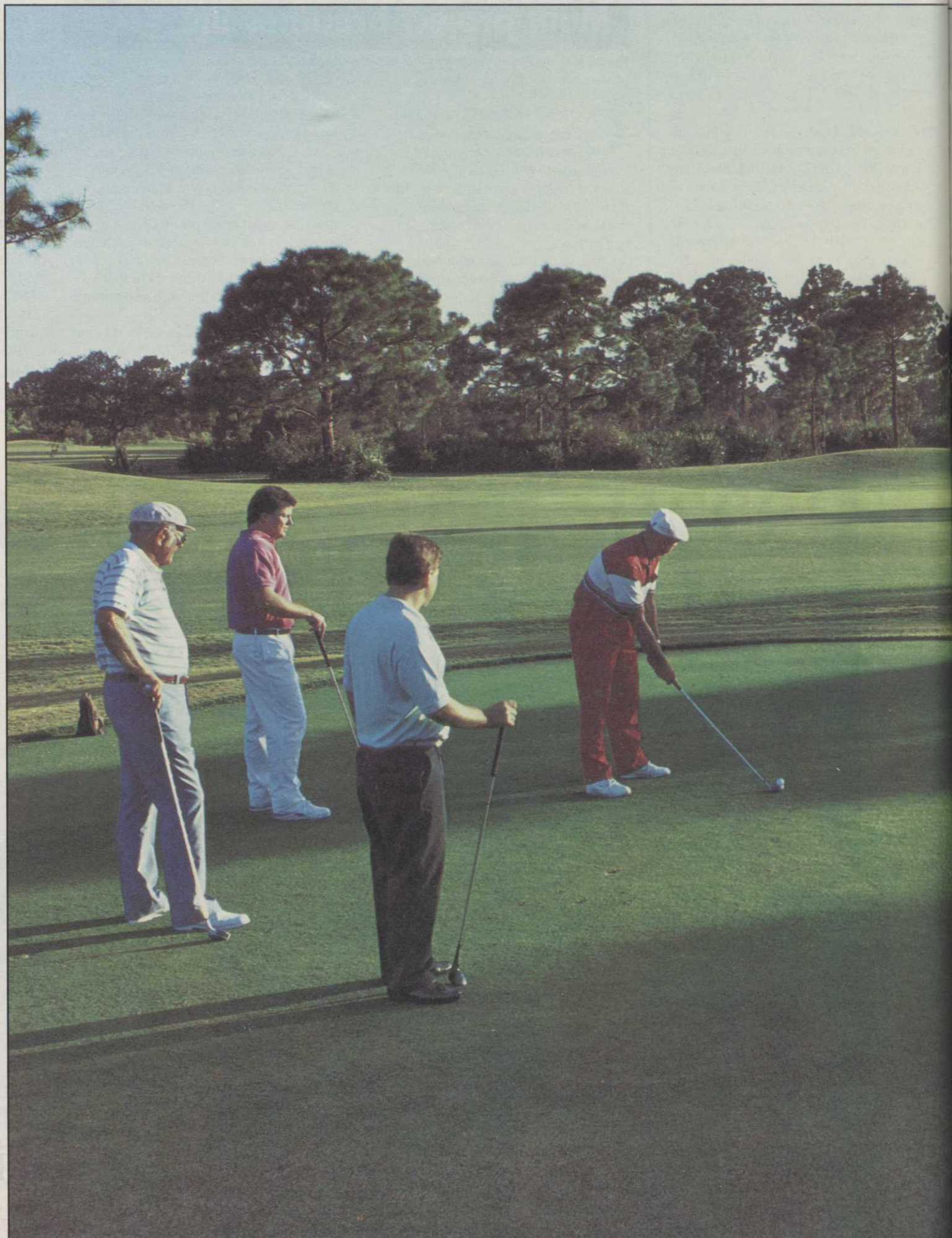
Hurricane Bertha did not hit Myrtle Beach's famous Grand Strand directly and left only heavy rainfall. Over 300,000 travelers were expected to vacation along the Grand Strand in the week following the hurricane.

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Tallahassee may rebuild nine-hole layout

TALLAHASSEE, Fla. — There won't be an 18-hole course again at Blue Cypress Park. But a nine-hole layout might be possible.

A city plan to bring a public, 18-hole course back to Blue Cypress Park in the Arlington district — where a course once existed — has been rejected by the state Community Affairs Department. But a state official state has hinted a nine-hole proposal could succeed.

The former Blue Cypress Golf and Country Club was converted

to Blue Cypress Park several years ago in a partnership between the state and city. To keep the property, the state put up \$1.3 million under its 2000 land acquisition program. The city paid \$1.6 million. The plan was to use the land as a park and recreational facility.

Earlier this year, however, the city announced plans to bring a golf course back to the property. Supporters said there is a shortage of golf facilities in the city, especially since the nearby

Dunes course was converted to parkland.

Originally the city proposed building a nine-hole course. But the final application dropped that idea and proposed only a driving range. Later in the process, an 18-hole course was proposed, and, ultimately, rejected.

Tallahassee Councilman John Crescimbeni, who supported the idea of an 18-hole course at Blue Cypress Park, said he will revise the plans and propose a nine-hole alternative.

N.J. entrepreneur fulfills goal

FRANKLIN, N.J. — Jack Kurlander, an entrepreneur who brought downhill skiing to the state when he opened the Great Gorge ski area on the west slopes of Harrisburg Mountain in Sussex County, has finally realized a dream that has lingered for more than 20 years — building a golf course.

The new 18-hole semi-private layout, called Black Bear

Golf Club, opened here in early July.

The par-72 6,800-yard golf course was two years in the making on a 260-acre site. An extensive practice area with six target greens and separate chipping and bunker areas were built along with two practice putting greens. The complex is adjacent to the 9,000-square-foot clubhouse.

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CIRCLE #157

Dye courses to be thoroughbred in name, quality

HAVRE de GRACE, Md. — The upscale golf complex that will feature two, 18-hole courses designed by Pete Dye will be called Bulle Rock, a nod to the horse racing and breeding history of a site once known as Blenheim Farm.

E. B. Abel, a Mountville, Pa., businessman who is the owner and developer of the facility, said it was difficult coming up with a name for the 550-acre site. Abel said there had been consideration given to keeping Blenheim in the name. But it was decided that people, especially those from outside the area, would have difficulty pronouncing it correctly.

According to research, Bulle Rock was the first thoroughbred horse brought to this continent in the early 1700s. The horse was a stud at the Blenheim farm.

Bulle Rock, which had a groundbreaking in late May, is being promoted as a state-of-the-art 36-hole public golf facility. Greens fees are expected to be in the \$90 to \$100 range.

Bethpage could still host Open

PLAINVIEW, N.Y. — The Black Course at Bethpage State Park had been considered on a short list of courses in the running to host the 2001 U.S. Open.

But during the 1996 U.S. Open at Oakland Hills, the USGA announced the 2001 event would be held at Southern Hills in Tulsa, Okla. The USGA announced Bethpage would still be considered for the 2002 event.

The Black Course, designed by A. W. Tillinghast in 1936, is continually considered among the best courses — public or private — in the country.

If Bethpage is chosen, it would be only the fifth time since the U.S. Open was first played in 1895 that it would be held at a public course. It would be the first time the Open would be held at a public course not affiliated with a luxury resort.

N.H. course to test artificial greens

LEBANON, N.H. — A new nine-hole par-3 course at Fore-U Golf Center will be watched closely by golf industry observers from around the country.

The reason? The course will have artificial surface putting greens.

U.S. Indoor Golf Inc.'s Tour True Turf Technologies developed the synthetic greens at Fore-U's par-3 course. The Tour True greens consist of a synthetic turf packed with an artificial aggregate fill that allows them to realistically mimic a bentgrass surface.

Mark Johnson, a professional golfer from Lebanon who developed the Fore-U center with his father, said the synthetic greens appealed to them for two reasons. One, the course is near a river and the synthetic greens will greatly reduce the chemical use on the course and thereby almost eliminate any negative environmental impact. Secondly, the greens will be as playable in early March as they are in the middle of July, which is a bonus for a golf course in northern New England.

Johnson said he and his father

have been keeping an eye on synthetic greens for the past 7 or 8 years. He said it's only in the last two or three years that synthetic greens have become good enough to be realistic for the course they wanted to open.

Tour True President Irving Bookspan said the synthetic green will never replace greens on PGA championship courses, but it would be perfect for heavily used public courses, municipal courses and 18-hole executive courses where there's a lot of traffic.

W. Va. golf instructor finally gets to build dream track

RIPLEY, W. Va. — Longtime instructor and former golf school owner Keith Marks Sr. has partially realized his dream of creating an idyllic golfing retreat in his native West Virginia.

Marks, 60, has opened nine holes of a public 18-hole course called Sycamore Creek. He has taught golf worldwide and once owned a golf school in Hilton Head, S.C., before returning to West Virginia in 1993. His original plan was to build a golf instruction center and three practice holes in Jackson County.

But as he began to shape the fairways and greens on the land, Marks decided the pasto-

ral setting was perfect for an 18-hole layout.

Marks teamed with longtime friends and businessmen Marshall Hanno of Columbus, Ohio, and Tom Wynne of Washington, D.C.

Sycamore Creek opened nine holes in June. Plans call for work to begin next summer on another nine holes, with the entire course ready for play by spring or summer 1998.

Jason Griffith, formerly of Woodridge Plantation golf club in Mineral Wells, is superintendent.

Marks plans to sell lots along the course to persons willing to build log homes. He also wants to build a 24-room lodge.

As you know, success on a green calls for a balanced stance. Quiet concentration. Unerring accuracy. And a true roll.

Cupp completes Tenn. remodel

OAK RIDGE, Tenn. — Private Oak Ridge County Club reopened last month after a 13-month, \$2.1 million facelift with more tee areas, larger greens and a renamed grounds staff.

Architect Robert Cupp redesigned the 49-year-old course, which was originally laid out by the club's charter members, none of whom were professional course designers. None of the original holes were moved completely, but substantial changes were made to every hole.

Oak Ridge president Hughie Thomas said the club considers the revised layout a new course. Cupp essentially plowed everything under and started over, although the holes followed similar layouts.

The redesign increased the course length from 6,263 to 6,836 yards from the back tees. Each hole now has four separate, rectangular tee areas. The redesign also enlarged the greens. Before the redesign, the course had less than 80,000 square feet of green space. The new layout features around 110,000 square feet of putting surface, including a large practice green.

Fairways were sprigged with a combination of zoysia and Bermudagrass. The rough is completely fescue. A new computerized irrigation system was added.

Oak Ridge's Golf Course Supervisor Guy Hudson and his 16-person staff are now known, officially anyway, as the Turf Care Crew. Their home, the former maintenance building, is now the Turf Care Center.

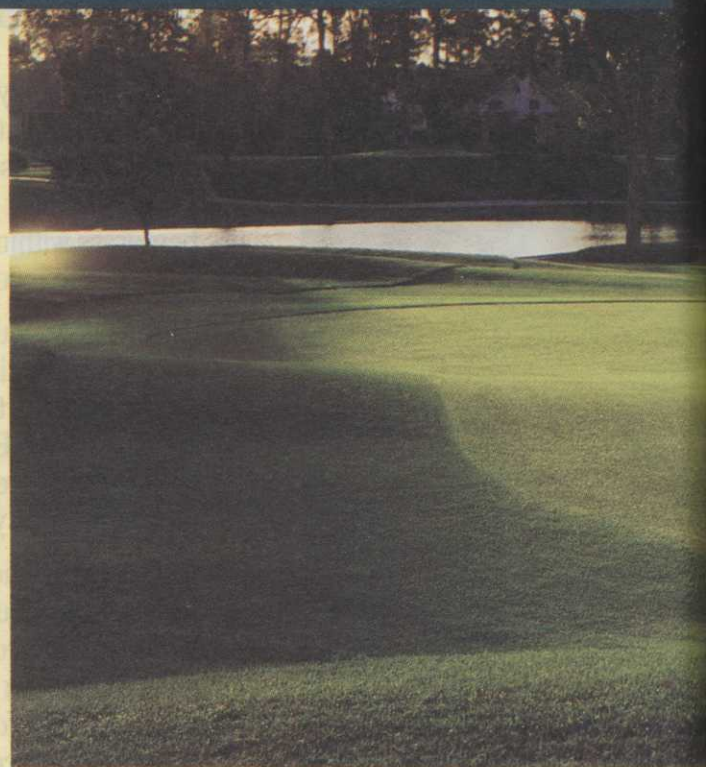
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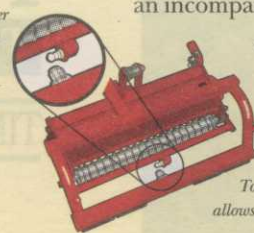
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Single center pull point



Toro's single point connection allows reels to steer themselves.

Military plans to open oceanfront layout in Va. Beach

VIRGINIA BEACH, Va. — The Army is marching ahead with plans to build an 18-hole course along at Fort Story overlooking Chesapeake Bay and the Atlantic Ocean.

The Army would like to have the facility open by 1999 for military and civilian golfers. The course would have at least three beachfront holes and would become the eighth of Virginia Beach's public courses.

Officials at Fort Story have been looking to build a course since 1991. They have received 14 inquiries from potential builders. Ground could be broken on the course within a year

and could take 18 months to two years to build.

The site of the course promises to please. About 250 acres of the 1,450-acre base overlooking the mouth of Chesapeake Bay and the Atlantic Ocean is available for the golf course. Army planners have left a stretch of tree-covered high ground running nearly two miles through the middle of the base. The bulk of the course may be built over the top of a series of World War II-vintage underground bunkers and cover most of two public parking lots near the east gate which are now used in the summer by civilian beachgoers.

Course planned for northern Vt.

WATERBURY, Vt. — A group of developers looking to build a world-class golf course in rural northern Vermont have set their sights on a 400-acre parcel in Waterbury not far from Interstate 89.

The group, known as Country Club of Vermont, was initially interested in building a course in the Stowe area but couldn't find a suitable parcel, according to Stu Campbell, the group's director-at-large. They then started searching up and down Route

100 and found a site they liked south of Stowe in Waterbury.

The group has been working with Canadian course designer Graham Cook, who has walked the Waterbury site twice. The parcel would be big enough for a 27- or 36-hole facility. But so far, anyway, Cook and the group are leaning toward an 18-hole course.

Campbell and his investors have contacted the company that owns the land. They have also initiated discussions with the district's environmental commission and Waterbury town and village officials. Any deal is also contingent on getting an Act 250 permit. Act 250 is a state statute regulating development. The group still has hopes of opening a course for play by spring 1998.

Trump plans to build links on \$7.5 million site

BEDFORD, N.Y. — Eight months after paying \$7.5 million for the 213-acre Seven Springs estate, mega developer Donald Trump has formally proposed building a 7,000-yard course across the hilltop site, along with 14 tennis courts and 15 exclusive homes.

The development — which lies in New Bedford, New Castle and North Castle — also would include a helicopter landing area and parking for 278 cars. The golf-tennis club would have 300 members.

Trump's project will require 24 permits from 12 local, county, state and federal agencies. He expects construction to take up to 36 months.

Vermont finally opens first muni golf project

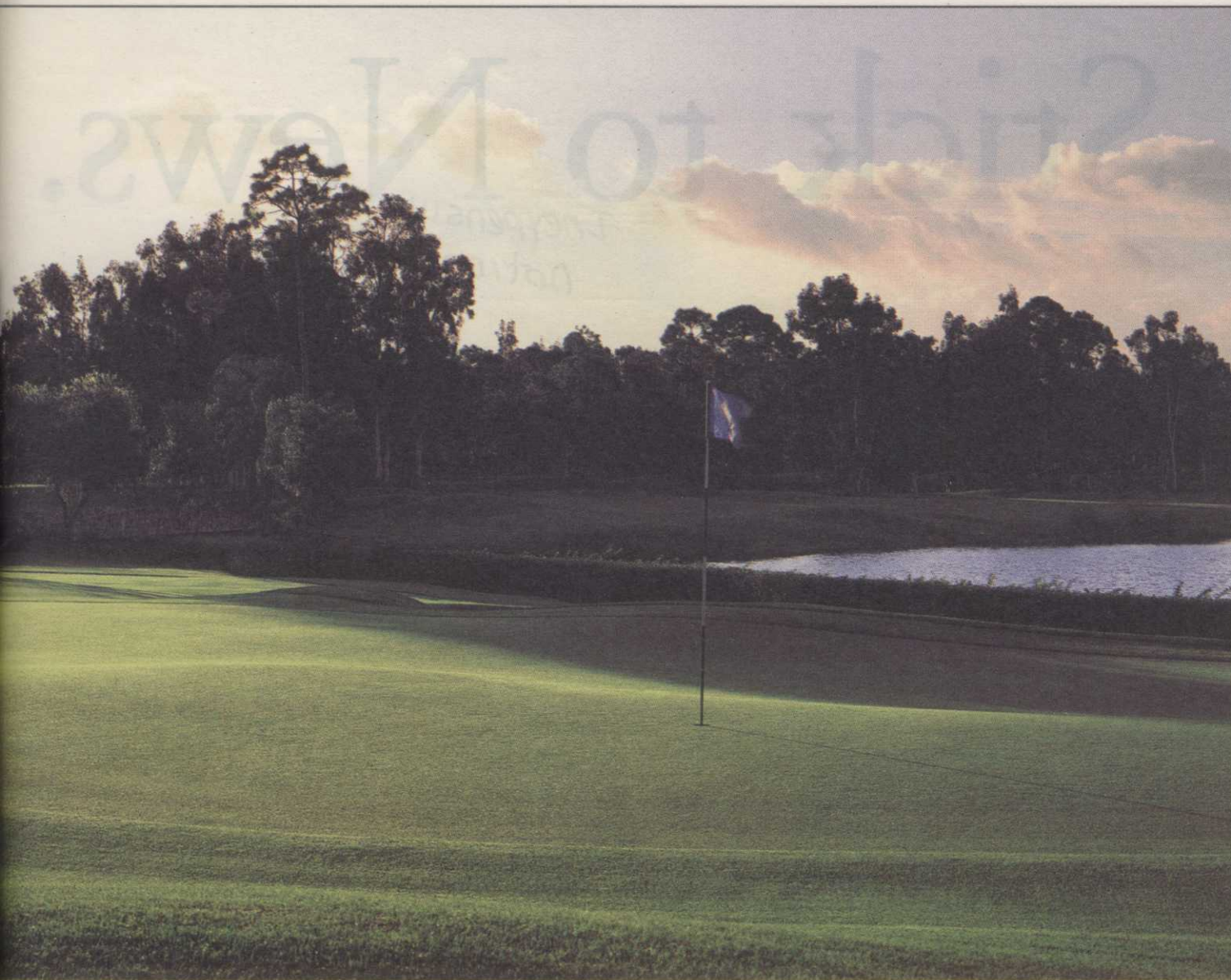
SHERBURNE, Vt. — After 5 1/2 years of planning and a \$5.5 million investment, Vermont's first 18-hole municipal golf course is open.

The Green Mountain National Golf Course, one of the most highly-anticipated golf course construction projects in the state, opened for play in mid-July.

The wooded, mountainside course is located off the scenic Route 100, not far from Killington Ski Area.

The state's newest course will be tested early. The Futures Classic tour, which features young women shooting for the Ladies Professional Golf Association Tour, will bring 125 to 135 women golfers for a tournament the first week of August.

Green Mountain National's grand opening is scheduled for that same week.



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Student design convinces Mich. city officials to build course

WALLED LAKE, Mich. — If and when a nine-hole course is built on a wetlands-heavy, 96-acre parcel in Van Buren Township, a group of students at Walled Lake Central High School may just have to be given credit — as course architects.

Led by teachers Lenore Hiscoe and Kevin Olson, a group of students enrolled in a golf course design class made a presentation to Willow Metro Park officials that was impressive enough that it's being kept on file by officials as a complete study.

The students made a presentation to parks

officials that included an oral review of their plan and a three-dimensional booklet with computer-generated isometric views of all nine holes.

Landscape architect Sue Nyquist told the *West Bloomfield-Lakes Eccentric* that if a decision is made to build a course at the site, the chances are "very good" that at least some of the students' work will be recommended to be included in the project.

Central High School, meanwhile, said it will keep the course design class in the curriculum for the 1996-97 year.

Eastwood eyes golf business

MONTEREY, Calif. — Another famous Hollywood star is looking to get into the golf course business.

Clint Eastwood, an avid duffer who also happens to own the film rights to the early mystical golf novel "Golf in the Kingdom," wants to build an 18-hole members-only course on a ranch near this seaside city.

Eastwood also wants to build 12 member suites at the course, a driving range, clubhouse, fitness center, equestrian center and five

employee housing units. According to plans submitted to the Monterey County Planning Department, Eastwood also envisions 34 residential lots in the project.

Eastwood bought about one-third of Monterra Ranch, a 2,900-acre site on a hillside adjacent to the Monterey-Salinas Highway.

Eastwood's plan comes at a time when work is underway on Dunbar in South Dakota, a golf, recreation and theme resort being developed by Hollywood star Kevin Costner.

Whitcomb to manage troubled Phoenix links

GOODYEAR, Ariz. — Maricopa County officials have awarded an interim contract to the Whitcomb Golf Group to maintain and manage the struggling 18-hole public course at Estrella Mountain Regional Park. The contact lasts until May 1, 1997.

Whitcomb, which took over from Dick Mulvaine Inc., announced it will spend \$50,000 on course improvements in July and August. It will resod some of the grass areas, upgrade parts of the sprinkler system, improve the turf on the tees and upgrade the restrooms.

County officials, who were unhappy with the conditions of the course, reportedly want to have a long-term arrangement next year. The number of rounds played at the course dropped from an average of about 48,000 in previous years to 36,000 last year. Whitcomb officials have said they would like a long-term deal, maybe for 25 years, to run the course. But county officials have said competitive and open bidding for a future lease arrangement will start in mid-September.

Whitcomb already is involved with two other courses in the Valley. It was part of the management team that developed the 500 Club Golf Course in north Phoenix. It also has managed the Paradise Valley Golf Course since 1981. The Estrella course, which is a 25-minute drive from central Phoenix, opened in 1962 as a nine-hole course and expanded to a full 18 holes in 1967.

GA. TRACK REOPENS AFTER LENGTHY SHUTDOWN

ROME, Ga. — Stonebridge Golf Club, an 18-hole daily-fee course opened in 1994, reopened last month after a six-week shutdown caused by severe winter kill. Stonebridge suffered serious damage after severe winter weather. Thirty acres of grass was killed and the course had to plant new grass at a cost of about \$60,000. Course officials estimated they lost about \$125,000 during the shutdown. Several part-time employees at the course were laid off during the shutdown.

Stick to News.

Inexpensive
option?

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

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COPY FRANK
ON THIS!



ALL IN THE FAMILY

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

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PLAYERS SURVEYED ON SUPER'S ROLE

Image enhanced but golfers insist on 'green' look

By PETER BLAIS

ORLANDO, Fla. — Most golfers of superintendents as trained professionals and the person most responsible for course conditions — news course managers should find encouraging consistency in national efforts to elevate their image. Disturbingly, however, few golfers recognized the Golf Course Superintendents' Association of America (GCSAA) as the national organization. Also troubling was the unwillingness of most golfers to accept poorer playing conditions in exchange for reduced water use on their courses. According to a recent survey conducted by the National Golf Foundation, the image of the golf course is enhanced, but golfers insist on a 'green' look.

STUDY SHOWS:

Name designers pull higher dues and green fees

By PETER BLAIS

HARRISBURG, Pa. — Private courses designed by signature architects command higher initiation fees and higher annual dues. The study shows that courses designed by famous architects are more likely to have higher initiation fees and higher annual dues. The study also shows that courses designed by famous architects are more likely to have higher initiation fees and higher annual dues.

MAKE THE CALL!

Drought pushes New Mexico superintendents to limit

ALBUQUERQUE, N.M. — It's not easy being a course superintendent in Albuquerque this year.

Thanks to relentless sun and wind and far-below average rainfall, course superintendents at the city's heavily-trafficked four municipal courses are being pushed to the wall this summer to keep their tees, fairways and greens presentable and playable.

According to the National Weather Service, rainfall during the past 18 months in the Albuquerque area was 5.58 inches

below average as of late June and 2.38 inches below average since Jan. 1. A measly .52 inches of rain had fallen this year by late June. Fortunately, nearly two inches of rain fell during the first two weeks of July to ease some of the pressure.

To try to cope with the drought, the city's Golf Management Division has taken drastic steps. The first is the use of computer-aided weather stations at all four of the city's four public courses to make watering as efficient as possible.

The stations take atmospheric readings based on wind, temperature, relative humidity and other factors. That information is then combined with soil samples to try to determine the exact amount of water the course needs. The computer then runs the sprinklers.

The second step was a retrofit of poorly-designed sprinkler systems and even removing certain areas of turf at all four courses that are not normally in play. About six acres of turf have al-

ready been removed at each course — Arroyo del Oso, Los Altos, Puerto del Sol and Ladera.

Glen Coontz, assistant director of Parks and General Services for Albuquerque, has called the situation a very delicate condition.

Albuquerque's four municipal courses receive about 455,000 rounds a year. The challenge of keeping them watered properly has been magnified in recent years because the city's underground aquifer has been found to be much less vast than once thought.

City, builder part company on California course plan

BARSTOW, Calif. — City officials recently broke off negotiations with Pegasus Management Company to build the proposed 18-hole Barstow Players Express Golf Club, saying the company's references didn't check out and its financial demands were unacceptable, according to the *Barstow Desert Dispatch*.

Pegasus had claimed to have a team of well-known designers and builders who would build the proposed course on city-owned alfalfa fields near Interstate 15. The company also said it would demand no financial assistance or guarantees from the city.

Based on those claims, the city entered an exclusive negotiating agreement with Pegasus in February. But this spring, Pegasus began to demand certain financial conditions, according to city attorney Henry Kraft. On top of that, the city found that Pegasus could not back up its claims about designing and building.

Earlier in the year, Pegasus senior partner Gary Korpa told the *Barstow Desert Dispatch* that its engineers were heavyweights who had designed The Quarry in LaQuinta, Pelican Hill in Newport Beach and Jess Ranch in Apple Valley.

The city hired a private investigator to check out the claims and found they could not be substantiated.

Barstow officials are now back to square one in their six-year search to bring an 18-hole public course to Barstow. They recently started discussions again with Blue T golf, one of the original developers behind the course plans. Blue T is in the midst of preparing a new, complete proposal.

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CORRECTION

Because of a typesetting error, two words were transposed in Charlie Barebo's letter to the editor ("A word about ozone") which appeared in the July issue of *Golf Course News*. The penultimate sentence in paragraph two should have read: "For every 3 feet the depth is decreased, transfers increase a corresponding 50 percent."

TICKLER FILE

ENVIRONMENTAL REPORT!

SENSITIVE STROKES
Architect Ron Galt worked sensitively around wetlands at the newly opened Indian River Club. Located in Vero Beach, Fla., Indian River is only the third course in the world to be granted Audubon Signature status. The course also embodies the Environmental Principles for Golf Courses recently issued at the conference on Golf & The Environment (see page 16).

on course costs

By MARK LESLIE

Worried the cost of golf is starting to drive people from the game, the incoming and outgoing presidents of the American Society of Golf Course Architects have presented arguments that would lead developers to make harsh choices about their projects.

Picking sides in a point-counterpoint atmosphere, Past President Jeff Brauer of Golfscapes in Houston and new President Denis Griffiths of Braselton, Ga., agreed construction costs have escalated too high but disagreed over the cure.

"Ten years ago there were few upscale daily-fee projects," Griffiths said. "Everyone today is doing

Continued on page 46

Pioneers of public-access

We pay a great deal of attention to the public-access golf course market in the pages of this publication. Indeed, *Golf Course News* coined the phrase "public access" so we wouldn't have to say "daily-fee, municipal, semi-private and resort" every time we referred to the largest portion of this country's 15,000-plus golf facilities.

Five years ago when the boom in public-access development was not yet evident, *Golf Course News* decided to create an educational forum for the owners, superintendents and developers of these facilities. Why? Because even then, back in 1990, while public-access courses accounted for half the nation's golf course stock, there was no conference and trade show that served this vibrant market sector.

That was five years ago.

During the ensuing five years more than 2,000 golf courses have opened nationwide — a full 80 percent of them public-access. Today daily-fee, municipal, semi-private and resort facilities account for more than two-thirds of American golf courses. Ninety percent of those courses now under construction are slated to be public access, so don't expect the trend to change anytime soon.

With the fifth Public Golf Forum scheduled for October 27-29, in Chicago, I want to take time here to salute all those golf industry professionals who've spoken at the Forum over the years. They saw the market changing and made it their business to prepare their golf industry colleagues for the unique challenges that lay ahead. Special thanks go to our keynote speakers: the inimitable Arnold Palmer, architect Robert Trent Jones Jr., Pete, Alice, Perry and P.B. Dye, and ClubCorp Chairman Robert Dedman.

Add to that prestigious list golfer, designer and certified character Peter Jacobsen who will keynote The 1996 Public Golf Forum this October (see story page 1).

Of course, speakers and keynoters who've participated in the Public Golf Forum aren't fools. They recognize that public-access is the wave of the future — "where the action is," so to speak. And who can blame them for wanting to align themselves with the fastest-growing portion of the golf industry? Who can blame them for taking advantage of an opportunity to



Hal Phillips,
editor

New faces, fewer fences?

Purged leadership and mended fences. It's fascinating how the two so often play out in concert. A case in point affecting the golf industry is the National Audubon Society's hiring of President John Flicker to replace Peter A.A. Berle, and the ensuing warming relationship with Audubon International (AI) and its Audubon Society of New York State branch.

The two associations have been in a heated battle for several years — ever since AI created the Audubon Cooperative Sanctuary Program and began working with nature's perceived "enemy" — golf courses. Ever since, NAS has vocally and venomously — not to mention wrongly — blasted AI as a rogue group.

Yet, the NAS leadership has been purged, to an extent, and the fence appears to be on the mend.

"We're making inroads with National Audubon," said AI President Ron Dodson. "A couple of months ago, we had two NAS staff people in the office, talking about what we're doing and they're doing. Dr. [Frank B.] Gill [NAS' new director of science] was here. Later, we received some nice complimentary letters back from them."

Next is a meeting between Dodson and Flicker to discuss "program philosophy, direction, and so forth."

"My ultimate hope," Dodson said, "is that we can learn to support each other where we can. We don't need to get to the point — nor do I think we ever will — where we will endorse each other's programs or philosophies on everything. The bottom line is that we're all busy. There are a lot of environmental issues we all need to work on..."

"I'm hoping that, if nothing else, we'll at least get some correspondence generated from them, communicating with their chapters that some of the correspondence sent out from the previous administration of National Audubon is no longer in effect; that while they do not do the same kind of programming we do, we all philosophically are trying to help people do good things for the environment; and that using personal agendas and casting disparaging remarks about fellow environmental organizations and people concerned with the environment is not to be pursued any longer."

While NAS can still disagree with AI's work with golf courses, Dodson added, "they don't have to put out shaded half-truths, mostly lies that make people question our integrity and personal attacks on me and my staff. I want to get over that."



Mark Leslie,
managing editor

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Letters

OLYMPIC CLUB PRESIDENT RESPONDS

To the editor:

I am writing to clarify your article, "Two new holes approved at Olympic Club" in the June 1996 issue of *Golf Course News*.

It is the standard practice of the California Coastal Commission to include a non-discrimination clause in all Coastal Commission permits issued to private clubs. In fact, there was no discussion on this issue by the Coastal Commission or its staff at the hearing. The Olympic Club has advised the Coastal Commission that the non-discrimination clause is acceptable because it simply reaffirms the club's existing policy on non-discrimination. Any suggestion to the contrary in your article is regrettable.

I trust that you will print this letter in a prominent position in your July edition in order to set the record straight.

Dennis F. Moriarty
President
The Olympic Club
San Francisco

Ed. — The above letter was received after deadline for the July edition, which explains why it appears this month. According to Bob Merrill, chief of permitting for the California Coastal

Commission's (CCC) North Coast office in San Francisco, the CCC considers all private golf clubs "visitor service facilities," i.e. facilities that do allow public use of coastal lands. However, in exchange for permitting, the CCC often insists that private clubs promise — by including language in or rewriting their bylaws — not to discriminate on the basis of race or gender, said Merrill. While there is precedence for the CCC to insist on this non-discriminatory language when issuing permits to private clubs, it is not "standard practice," as Mr. Moriarty claims. Indeed, because the Olympic Club leases land from the City of San Francisco, the club was enjoined by the city as recently as 1987 (prior to the U.S. Open) to remove gender-discrimination language from its bylaws. Prior to this year's permit approval, which allows construction of two new holes on a coastal parcel, the Olympic Club "did not have a policy that definitively stated that it's the policy of the club not to discriminate," Merrill explained. "The club eliminated gender-based language in 1987, so we asked that they include some more definitive language; we asked that they go a step further to say they wouldn't discriminate."

TELLING AN IRRIGATION STORY

To the editor:

We receive your *Golf Course News* on a regular basis and thoroughly enjoy the articles that you put in it. We are writing to you to inform you of a project that we completed last July that has been a great benefit to our course.

In 1993 we underwent an expansion program in which we added an additional nine holes to our already nine-hole course. We also added a driving range plus complete computerized irrigation. Our architect was Joel Goldstrand from Minneapolis. Our irrigation system was installed by Rainbird irrigation systems. We formally opened our addition on July 2, 1994, and are very proud of the results.

The consummation to this project did not happen until July 1995 when we hooked our irrigation system into the wastewater plant. We are now irrigating with effluent water. There were many months of testing, and permitting before we were approved for this. The water we receive has maintained a test of 90 to 95 percent pure water. We piped it into one of our six ponds, which are tied together with a tiling system. We then installed two

pumps in the most strategic pond from which we irrigate the entire course.

This was not only a money-saving program, as we were previously using city water for irrigation, but we have found that our grass has a better root system and is more lush from the effluent water. We have also noticed that it takes less water to obtain the same results. We are presently the only golf course in the state of Minnesota using this type of irrigation. At this time, we have not had any odor or scum problems with this water.

We are concerned about environment, and the conservation of our natural resources and we feel we have indicated this by going with this program.

Other courses being built might consider doing the same thing if it is feasible to them. We feel it is in their best interests to investigate the possibility.

John LaFramboise
Club Manager
Montgomery Golf & Recreation Club
Montgomery, Minn.

Ed. — Thanks for the tip. A story on this extraordinary expansion appears on page 32 as part of our special report on irrigation and pumping stations.

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

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GOLF COURSE NEWS

On the road again: Impressions of a golf market on the move

By CHARLES VON BRECHT

From time to time I like to get my two cents worth into *Golf Course News* with some thoughts on the golf industry and to bring readers up to date on the commerce side of this publication.

Having just returned from a nine-day trip to the Midwest, I'm off to Phoenix and Florida for another nine-day trek (I did drop by for a quick hello to the office in late July). Fortunately, this trip ends with a family gathering, where I hope my children will recognize me — even though we live under the same roof!

The Midwestern trip was anchored by a two-day celebration of a combined 145-years, honoring Jacobson (75) and Milorganite (70). These Racine- and Milwaukee-based organizations invited editors and publishers for plant tours, product & equipment presentations, and the required golf outings. It seems like summer is my plant-tour season, and I learn more and more with every tour!

The Jake plant, though physically antiquated, has

been updated with millions in capital equipment. Jake president Phil Tralies seems to have initiated some vital changes in plant rehab during his relatively short tenure. More improvements are planned to keep up with demands for Jacobson equipment.

The Milorganite facility, as most of you may know, is contained in the MMSD (Metro Milwaukee Seven District). This facility is truly amazing. Warning: Do not take a tour on a hot day with a hangover... Fortunately I had

Continued on page 70



GCN Publisher Charles von Brecht: Don't try this at home!

SECOND OF TWO PARTS

Focus your attention on the 10 to 20 basic irrigation system components

By LARRY RODGERS

A well-written irrigation plan, like a construction blueprint, instructs users on how to create the best system for their exact needs. The plan reflects current course watering demands, as well as irrigation requirements 20 to 30 years in the future. While the plan specifies the absolute functional necessities of how your station affects the total irrigation system, it's important to pick out 10 to 20 basic components on which you should focus your attention.

These items should be part of the review process and should be evaluated as to how they compare to the intent of the specifications.

1. Industry Standards: U.L., NEMA, NEC, ASME, and uniform plumbing code. If a component is to be built within ASME standards does that mean the same as ASME code construction? No, only an ASME certified shop can provide ASME code equipment. Determine what industry standards are important and use this to influence the final decision.

2. How is the start-up, installation, testing, and training going to be provided? Determine how many visits will be provided in the base cost and ask for the fees of the additional visits.

3. Service contracts and warranty: Determine what conditions are covered under warranty and why service contracts may be required during the warranty period.

4. The skid construction: Determine if it is channel, bent steel, or I-beam and how that affects the integrity of the system. Identify and follow the pump mounting plate thickness. If the system is a vertical turbine, determine how access to the wetwell will be achieved.

5. Pumps: Determine the speed — 3600 rpm pumps are generally less initial cost than 1800 rpm pumps but tend to wear out quicker. On a turbine pump, determine if the head is cast from a mold or fabricated steel and the features of

Continued on page 12

Larry Rodgers is an irrigation consultant based in Lakewood, Colo. The first part of his irrigation series appeared in the July edition of *Golf Course News*.



Sun.



Wind.



Tournaments.



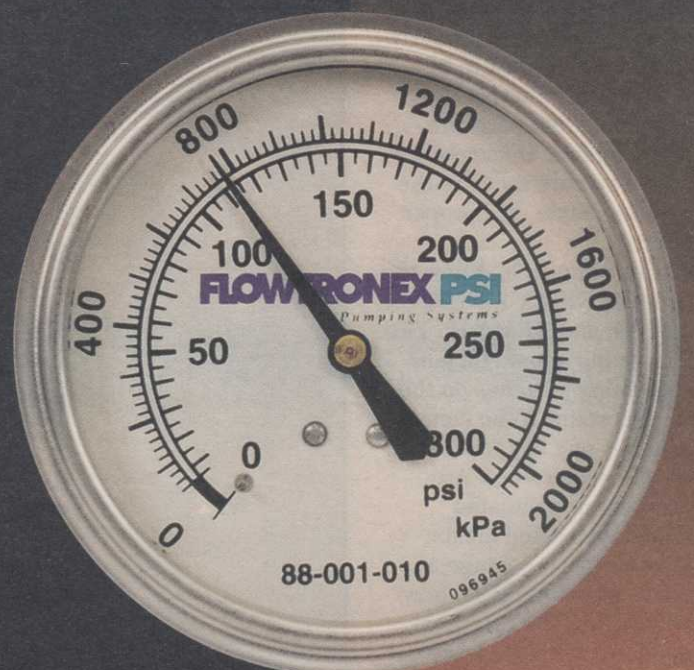
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Rodgers comment

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each. Examine the packing/stuffing box: Is it oil or water lubricated? And know the importance of each kind. Be sure the pump shaft has two-piece construction in the event motor repair is needed.

6. Motors: Determine that the size is larger than the largest draw the pump is capable of producing. There are some fabricators that only look at the duty point and ignore the highest demand of the pump. If the specifications call for non-reverse ratchets, are they included?

7. Piping: What is the rating of a Sch. 40 pipe when it is machined to accept a victaulic coupling? Know the differences in schedule ratings and how they affect the highest pressure rating of lower flows. If the specifications call for the pipe to be loaded with galvanizing or epoxy, what is the coating process and how does it hold up to the environment that calls for this process? If drains, fertigation taps, and blow-out stubs are specified, are they included?

8. Pressure/Surge/Hydro-pneumatic tank: If a tank is specified, what is its purpose and is it constructed within the laws and codes of the jurisdiction where it will be located? Check the local boiler codes for ASME labeled construction techniques. Determine if the tank will be installed in-line or off-line providing pressure maintenance and how that is important to the application.

9. Control Valves: How will they be used? In a pressure control (conventional) or relief (VFD) situation. Valves can be sized too small and cause excess pressure losses or too large and not operate properly at lower flows. Check to be sure proper filtration is provided and that parts are locally available. If gauges are specified be sure they are the size, rating, style, and proper locations.

10. Control panels: Know the differences NEMA 1, NEMA 3, NEMA 3R, and NEMA 12. This NEMA rating should include the operating switches on the door. Determine if the construction is one big panel or a series of smaller ones. Are there any water actuated components located inside, such as a pressure gauge or pressure switches? If so, how may this affect the electrical components if a leak develops?

11. Starters: Do the starters have fused or circuit breaker protection? What are the benefits and limitations of each kind? Do the starters need to be soft-start, as required by the local power companies?

12. VFD Unit: Variable frequency drive is one of the latest features added to a

prefabricated pump station. Keep in mind the VFD is nothing more than an industrial computer. Just as with personal computers, there are many manufacturers of electronic boxes. To insure the box will perform as required, you should establish minimum operating features that are usually part of the "software programming."

13. PLC (Program Logic Controller): This device is very similar in operation to an Intel PC microprocessor. The PLC will determine how each command is carried out.

Today's PLC's are large electronic relays using digital memory in lieu of a cabinet full of relays. Their size is determined in memory (KB) and capacity (input/output count: 1/0). The PLC is used for industrial reliability, cross checking all 1/0s and verifies the system integrity prior to operation.

14. OID: Operator Input Device is the keypad which is similar in operation to the keyboard of a personal computer. When evaluating the system, compare the keypad layout to see if it has been

customized for your needs or if it's an off-the-shelf pad with numbers and letters for codes.

15. Safeties: Each system should have a list of safety devices as included equipment. At minimum they should be 1) low water level; 2) low pressure discharge-indicating more demand; 3) lightning/surge protection; and 4) loss of phase protection. Look at each one in addition to others that may be included.

16. Features: This is the "Bells and Whistles" section, where only your imagination, I/O capability, and software

engineering are the limitations. Check to be sure some basics, such as motor running time meters and general reset alarms, are included. For remote operation and monitoring make a list of what is needed for your use then see if the system has it included.

17. Skid Preparation: The final condition is only as good as the preparation. Insist on steel grit blasting of metal for surface preparation. This process "pits" the metal and allows the paint, epoxy, or hot dipped galvanizing, a surface

Continued on next page



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A quick look inside reveals the clean, simple logic of the Aercore designs. Easily accessible Kevlar® belts, instead of chains, power the systems. Making them quieter,




Phillips comment: The Public Golf Forum

Continued from page 10

mix, meet and network with hundreds of Forum attendees, the public-access superintendents, owners and developers who are shaping the future of the golf course industry?

I urge you to join us in Chicago and afford yourself the same opportunity.

...

This just in (only a year late):

A survey of U.S. nitrogen fertilizer manufacturers indicates the industry reduced

its industrial emissions, as reported on the annual Toxic Release Inventory (TRI) by 3.6 percent in 1994, as compared to the previous year. Also, a survey of U.S. phosphate fertilizer manufacturers shows the industry reduced its emissions (as reported on the annual TRI) by 65.6 percent in 1994.

Ladies and gentlemen, a nice round of applause for the fertilizer industry, which has chosen to address its emission issues before the heavy-hand

of regulation lowers the boom. Indeed, these decreases were posted despite increases in production.

Both surveys, conducted by the International Fertilizer Development Center for the Washington, D.C.-based Fertilizer Institute, are compilations of information reported annually to the Environmental Protection Agency (EPA) under the Community Right-To-Know Law. EPA's involvement probably explains why we're just now getting figures for 1994... Ha! Just kidding!

In truth, when it comes

matters of Red Tape, EPA has really cleaned up its act. In February we reported on innovative fast-track registration programs EPA created to more quickly accommodate reduced-risk chemicals. Last month, we reported on EPA's hugely successful effort to reduce the number of scientific studies chemical manufacturers conduct — and re-conduct — in support of products applying for reregistration.

The time and money saved by this program should be enough to silence even EPA's harshest critics — for a couple

of weeks, at least.

...

More Updates: The Budd Family of Winston Salem announced July 11 that it has completed its acquisition of **Lofts Seed, Inc.** As we noted in our earlier story on the sale (*GCN* May 1996), no discernible changes in the Loft proprietary name or product line are expected.

...

Also from the unfinished department: **AgrEvo USA Co.** and **The Nu-Gro Corp.** of Woodstock, Ontario, Canada have completed transfer of AgrEvo's Nitroform/Nutralene business to Nu-Gro's U.S. subsidiary, Omnicology, Inc. of Gloversville, N.Y.

Though Omnicology and AgrEvo jointly honored existing prices and marketing prices through July 31, new programs — expected to be similar — were scheduled to be announced Aug. 1.

Rodgers comment

Continued from previous page to adhere to.

18. Filtration: The degree and type of filtration depends on the water source. At minimum insist on Wye Strainer with a 20 mesh screen. On the extreme end there are systems that will filter down to 5 micron (1 micron = .00004 inches).

19. Main Disconnect: This is usually required by utility companies and could become a big expense if left off and required later.

20. 120-Volt Power Conditioner: The only item that has remained constant in the golf course irrigation industry is power. If you have power to operate the pumps you can count on power to operate the irrigation system. It is our policy to use the pump location as our sole power source. It's very important to send proper voltages to the solid state controllers. If a power conditioner is called for, be sure it is included.

The Bottom Line:

Don't evaluate solely on today's price. Use GM vs. Cadillac example. Not every course needs a Cadillac, but you better understand what you don't need and how that translates into the final cost. Initial bid quotes, ignorance or simply going with your buddy down the road should not play a role in the final decision.

Also, don't buy technology just for technology's sake. Buy it for what it can do for you. VFD alone isn't the answer, the software that operates the VFD is the answer.

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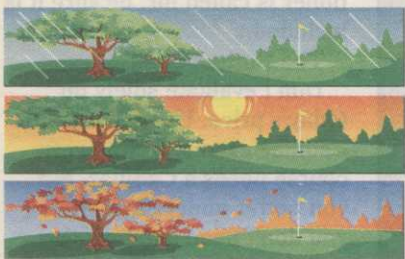


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BRIEFS


ALTER REPLACES STARLING AT PENN

BELLEfonte, Pa. — Dr. Theodore R. Alter, professor and head of the Department of Agricultural Economics and Rural Sociology in Penn State's College of Agricultural Sciences, has been named interim dean of the college. Alter succeeds the retiring James L. Starling, interim dean and professor of agronomy who had served in that capacity since January. Alter will serve in the post for one year or until a new dean is hired.

RUTGERS FIELD DAY PLANNED

NEW BRUNSWICK, N.J. — The 31st Field Day turfgrass seminar and exposition will be held at the Rutgers University golf course/stadium complex



on Oct. 8, 1996. After a three-year hiatus due to stadium and bubble construction, the 1996 Field Day committee under the direction of Joe Kennedy has prepared an "Emporium of Turf Related Delights." The event will be hosted by Mike Mongon. The expo will feature traditional equipment demonstrations and boots along with guest speakers, stadium tours and door prizes.

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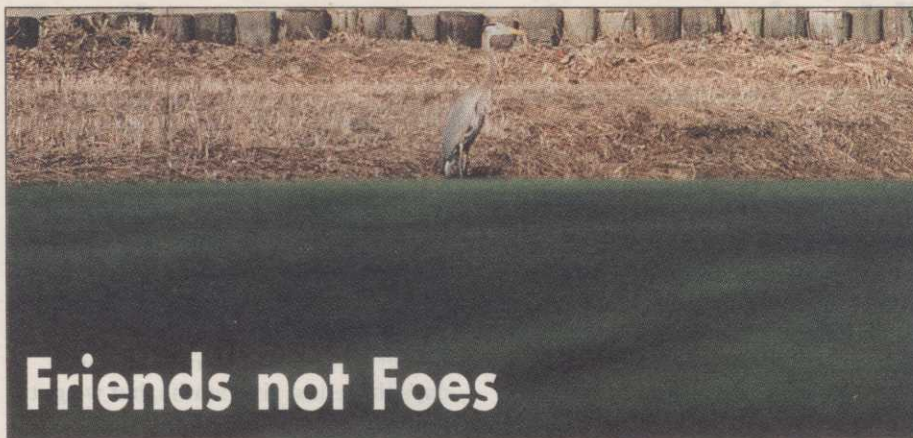
TPI SETS RECORD STRAIGHT

ROLLING MEADOWS, Ill. — Turfgrass Producers International (TPI) has published "TurfgrassFacts" fact sheets spelling out what it terms "anti-turfgrass statements" and dispels them with "The Real Grass Facts." The TPI fact sheets tackle such topics as exaggerated pesticide fears, whether turfgrass is a wasteful water hog, whether lawns are a waste of time and money, and grass clippings in landfills. TPI can be reached at 1855-A Hicks Road, Rolling Meadows, Ill. 60008; telephone 800-405-8873.

IRRIGATION ASSN. SETS CONCLAVE

SAN ANTONIO, Texas — The Irrigation Association's 17th annual International Irrigation Exposition and the American Society of Agricultural Engineers Technical Conference will be held from Nov. 3-6 at the San Antonio Convention Center. The Irrigation Association's exposition will be held Nov. 3-5 and feature North American and international companies. The ASAE Technical Conference will run from Nov. 4-6. The three-day schedule of sessions and speakers will cover current topics in evapotranspiration and irrigation in the farming and turfgrass fields.

GOLF COURSE NEWS



Friends not Foes

Sand Creek Country Club attracts and sustains a wide variety of birds and other wildlife.

Superintendents devise innovative new ways to push wildlife envelope

By MARK LESLIE

Casting aside the "chemical revolution" of the past, golf course superintendents have taken a long trek toward heightened environmental awareness, adding innovative twists of their own to the standard Audubon fare.

Witness Director of Grounds Don Ewoldt of Sand Creek Country Club in Chesterton, Ind., who started a Junior Conservation Society among his club members' children.

Or, John Netwal of Glynn's Creek Golf Club in a county park in Long

Grove, Iowa, who takes interested campers on a tour of his course, then gives them bird boxes to place in their own backyards.

Or, Hank Kerfoot of Carmel Country Club in Charlotte, N.C., who with his wife this fall will instruct K-12 teachers about the outdoors and wildlife in a new program called Project Learning Tree.

"I farmed for 35 years and have been in this business for 15," said Ewoldt, "and I'll tell you: Golf courses are the least of our problems. I look back and cringe at what I did [on the farm]. So many homeowners are causing much more problems than golf course managers. Granted, we manage a lot more property, but we're doing it right."

Continued on page 24



First soil labs certified

By MARK LESLIE

NEW KNOXVILLE, Ohio — Stepping away from a history wrought with contrasting methods and interpretations, soil laboratories are moving to standardize performance and enhance their reliability in testing root-zone mixes used in greens construction.

Brookside Laboratories, Inc. here and Thomas Turf Services in College Station, Texas, have become the first soil-testing labs accredited by the American Association for Laboratory Accreditation (AALA). The accreditation program was spearheaded by the U.S. Golf Association, whose greens-construction recommendations are recognized as the industry standard.

"Different results from different labs affected everybody's reputation," said USGA Green Section National Director Jim Snow. "Accreditation tightens the standard all around and the whole industry will be served by it."

"Also, from a liability standpoint, it will help if you have a good quality-control program in place and are being tested regularly."

Continued on page 19

Norman stakes claim in Bermudagrass market

By HAL PHILLIPS

SOUTH LAKE LAND, Fla. — With more than 400 golf course openings projected for 1996, September's opening of The Club at Eaglebrook here shouldn't cause too much of a stir... Right?

Wrong. The Club at Eaglebrook, designed by Ron Garl, is the first course in the United States to have 18 holes of GN-1, the new fairway Bermudagrass strain marketed by Greg Norman Turf Co.

Several other GN-1 projects are in various stages of development. Sugarloaf, the Norman-designed course outside Atlanta

and future home of the Bell South Classic, will feature GN-1, as will Real Mar, another Norman design under construction in Puerto Rico. Also, The Medalist Club — a Norman/Pete Dye collaboration in Hobe Sound, Fla. — has two holes grassed with the new Bermuda.

However, Eaglebrook will be the first fully operational golf course featuring the hybrid Bermuda on all 18 fairways. Consequently, warm-climate superintendents, architects and sod growers across the country are eager to see how the new grass fares.

"It looks fantastic," reported Eaglebrook

superintendent Bob Wagner in mid-July. "I've had three superintendent jobs... and they've all been grow-ins. And this stuff [GN-1] grows like wild-fire. It's green as can be and it's very aggressive. We started sprigging April 16 and by the end of May it was completely covered."

"Time will tell and it's hard to predict what extra things I might have to do. But everything I've seen so far has been real encouraging."

GN-1 is the first commercial release

Continued on page 23

DuPont design improves grounds crew's morale

By MARK LESLIE

LANDENBERG, Pa. — When DuPont Country Club determined its maintenance facility would be "world-class and compete among the best," some say it went one better: It became the best.

"We feel it has done good things for the morale of the crew as well as their professionalism," said Earl Shafer, head superintendent at the 54-hole club. "It's a source of pride. It sets a tone. And when you have visitors, it shows your professionalism. It's not an old-barn, out-in-the-woods operation."

No, indeed. Dupont CC's maintenance structure met and exceeded its needs so fully that Shafer said, "The only problem is, we are running out of phone capacity and could use a larger cable." That's because some of the folks in the clubhouse took a fancy to extra space in the two-story building and moved in their operations.

But they didn't move in before Shafer accomplished his purposes. Namely:

- Individual offices — of "sufficient size to be private" — for Shafer, his three golf course superintendents, a landscape



DuPont Country Club's table lift greatly improves safety and working conditions.



SHOP TALK

coordinator and an administrator responsible for the workforce and safety programs.

Shafer and the superintendents had all shared an office of about 4 by 10 feet, he said.

- A lunch room that seats 50 people. "That's our peak," he said. "We wanted a lunch room that would be comfortable and clean. And we have snack and soda machines, a television, and refrigerators to store lunches. We were eating in the shop and you can't — and shouldn't — do that."

Continued on page 17

August 1996 15

Giedd: Time to pull back on maintenance spending?

By PETER BLAIS

WILLIAMSBURG, Va. — Are the gobs of money golf courses are throwing into their maintenance budgets today really worth it? Maybe not, according to Ken Giedd, director of course maintenance at the 63-hole Kingsmill Resort here.

"Grooming standards have increased to the point where it seems many of the things superintendents do are simply a way to keep up with the Joneses [competition]," Giedd said. "But I think we're close to the point of diminishing returns. Superintendents do a lot of stuff to satisfy the owner or greens committee. I'm not sure golfers really see much of a difference, though. I think we could

pull back, do fewer things, and no one would really care."

Giedd speaks from 27 years experience in the golf course maintenance business. He graduated from Virginia Tech University with a bachelor's degree in agronomy in 1969 before heading into the Army. The government stationed him in Seoul, South Korea and made him superintendent of the 8th Army Golf Club. Giedd oversaw a major reconstruction of the course, where eventual Tour players Orville Moody and Bob Eastwood served as head pro and assistant pro, respectively.

Giedd was eventually reassigned and named club manager of the course at Fort Lee in St. Petersburg, Fla.

After his discharge from the service, Blacksburg Country Club brought Giedd back to his native state as head superintendent. "All the Virginia Tech professors were members of the course and several of them were on the greens committee," Giedd remembered. "That was pressure."

After a two-year hitch at Blacksburg, Giedd moved to the Hermitage Country Club in his hometown of Richmond. The course hosted the 1950 PGA tournament and provided Giedd with his first professional tournament experience when the Senior Tour stopped there in 1983-84.

Kingsmill hired Giedd in 1985 just as work on the Arnold Palmer-designed Plantation course was winding down. The Plantation and Pete Dye-designed River Course gave Kingsmill 36 holes. The complex stayed at 36 until July 1995 with the opening of the Tom Clark/Curtis Strange-designed Woods course. While Giedd had a limited hand in the construction of other courses, the Woods layout was his first opportunity to be involved from the outset. In fact, his involvement was more than he originally expected.

The builder filed for bankruptcy halfway through construction of the Woods course. Giedd was put in charge of the project six months from the projected opening date. "The irrigation



Ken Giedd

days those last six months, but we got it done."

Today, Giedd oversees the Woods, Plantation and River courses, the nine-hole, par-3 Bray track, plus the landscaping of the resort's entire 750 acres. He manages 75 employees and a \$2 million annual budget.

"Anheuser Busch has a progressive capital budget, too," he added. "We're putting in a new practice green in August and just finished a new driving range last year."

The resort is also finishing up work this summer on a \$10 million expansion to its conference center and sports club. Landscaping responsibilities at those facilities will also fall under Giedd's jurisdiction.

"The nice thing about working for a company this size is the resources you have access to," Giedd said. "For example, we have a sodium problem with the irrigation water here. The engineers and environmental people at Anheuser-Busch have helped solve that problem. We've also pulled out all the old underground storage tanks, built a fertilizer storage area, piped the equipment wash-down area into the sewer system and built a new chemical storage area."

"The only disadvantage is that things can move slowly in a corporate environment and you don't have the freedom to do some things that you might in a smaller organization. But the pros far outweigh the cons."

Another pro Anheuser Busch brings to Kingsmill is the PGA Tour variety who frequented The River Course during July's Michelob Championship

was in, greens seeded and the rough shaping done," Giedd remembered. "We took it from there, doing the rest of the work in house or contracting it out. There were some long



at Kingsmill. "The tournament is sort of staring over your shoulder 12 months a year," said Giedd, who begins serious preparation six to eight weeks before the event.

Anheuser Busch was successful in getting the dates for the event transferred out of hot, sultry July and into the cooler climes of late October for the 1997 event. While that pleases Kingsmill's marketing department, it could create some headaches for Giedd.

"We're on the northern end of the Bermudagrass zone already," he said. "When we start scalping it down for the tournament in late October, it's going to be tough to keep it alive through the winter. We'll do some experimenting this fall to see what works and what doesn't. October will be great for the players and spectators, but it could make it tougher for us."

Of course, excuses like the cold won't hold much weight with golfers if conditions are less than ideal the next time they visit Kingsmill. "The superintendent's job has become much more demanding since I first started in the business," said Giedd, who has organized monthly gatherings for Williamsburg-area superintendents for many years. "Now a phone call to those guys is often about the best I can do."

"The biggest change is the governmental and environmental regulations a superintendent has to deal with. A superintendent today has to be able to juggle more responsibilities. It doesn't seem so long ago, 1968 I believe, that they were just introducing the first riding greens mower. The job has gotten more complex and there is a lot more money involved."

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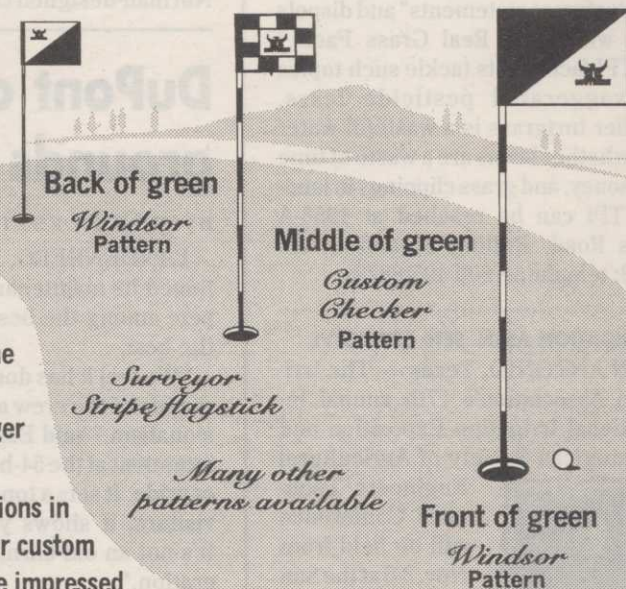
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CIRCLE #110

IGM honors Whaley, Poinciana with TQM award

LAKELAND, Fla. — Steve Whaley, superintendent at Poinciana Golf & Racquet Resort near Kissimmee, has earned a Total Quality Management (TQM) award from International Golf Management (IGM) for the overall quality of Poinciana's golf course.

"Steve Whaley and his staff earned this award for their dedication to excellence," said Jim Sartain, president of IGM, in announcing the TQM award. "The overall quality, conditions,

appearance and customer satisfaction at Poinciana is outstanding. We are proud of what Steve and his staff have achieved."

A team comprised of Scott Zakany, vice president and general manager of IGM, and the IGM regional manager visited all IGM-managed courses, evaluating them on a wide range of criteria, including first impression, irrigation, neatness, environmental compliance, record keeping and overall condition. Poinciana achieved the

highest score, Zakany said.

"The TQM award is designed to give our superintendents an extra incentive to constantly improve their courses," he said. "We want them to strive to perform above and beyond what is expected of them."

Owned by Avatar Corp., Poinciana Golf & Racquet Resort boasts a heavily wooded, 18-hole course, in addition to a clubhouse, pro shop, tennis operation and pool. IGM maintains the golf course and clubhouse grounds.

Whaley joined IGM and was designated as Poinciana's superintendent in March 1995 after serving one year as an assistant superintendent at Avila Country Club in Tampa. Prior to that, he was assistant superintendent at Gainesville (Fla.) Golf & Country Club.

A native of St. Augustine, Whaley resides in the Kissimmee area. He earned his degree in golf and landscape operations from Lake City Community College in 1992.

"I'm very surprised and proud to have been selected for the TQM award," said Whaley, who manages the club with the assistance of a nine-member staff. "It's great being recognized for doing my job which is to keep Poinciana in top-quality condition all the time."

Poinciana is an 18-hole resort course open to the general public. Carved out of a cypress head, the Robert Von Hagge/Bruce Devlin-designed course came on line in the early 1960s.

IGM is supervising installation of new golf cart paths throughout the course.

DuPont solution

Continued from page 15

- A large meeting and training area complete with a slide projector, video machines, cabinetry to hold a library of safety and training tapes, a screen and hanging dry chalk boards. This room is used daily, either by the maintenance staff, or people in the food-and-beverage operation when the clubhouse is full.

- Locker rooms for men and (up to five) women. "Because, particularly with the men, it's difficult to keep sinks clean, we went to fountains," Shafer said. "The lockers are large enough to keep coveralls and winter coats, etc., and not have clothes all over the place. And it has a nice shower area."

- A computer room that houses irrigation controllers, the weather computer and an in-house network computer.

- The maintenance coordinator's office adjacent to the repair area. A second desk for the mechanic, who reports to him, also sits here as do controls and data-recording equipment for the fuel system and underground storage tanks.

- Two "mechanical rooms" containing controls for the heat and air conditioning, alarm and energy-management systems, sprinkler-system controls and other utilities. The air compressor for the building is also housed in this room "so there is not a lot of noise in working areas," Shafer said.

The building is protected by a pyrotronics smoke-detector system as well as sprinklers.

Would anything make the facility more complete?

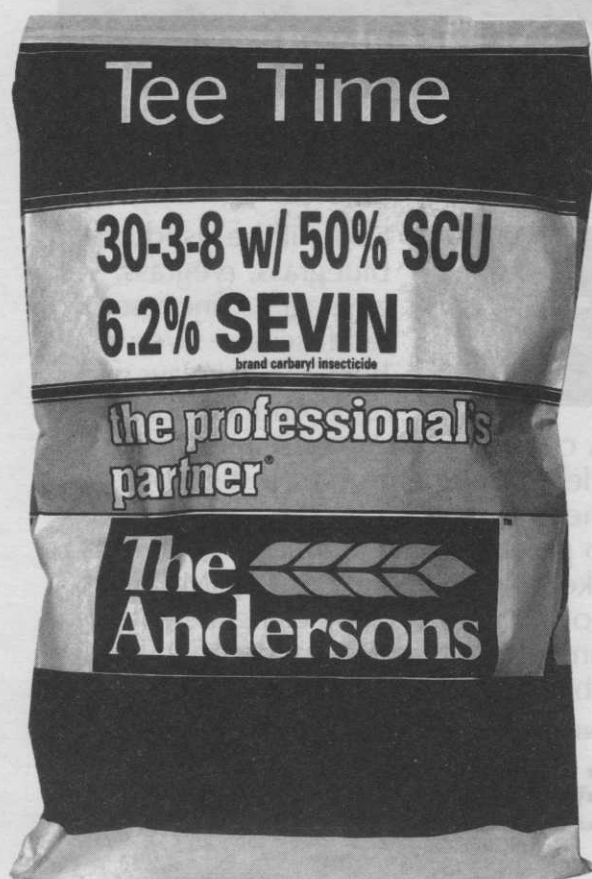
"Not really," Shafer said. "Ironically, as it turned out, we had one large room on the second floor for 'soft storage' — tee-to-green supplies, etc. We ran out of money equipping it and didn't get shelves in, so it quickly became an office area for others from the club."

Shafer sees the crew's headquarters as crucial to its effectiveness.

"It's a mind set," he said. "It's about how you feel when you come to work. The building does a lot in that respect. We want to foster a whole attitude: professionalism."

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GOLF COURSE NEWS

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Your golfers can be builders of character

By TERRY BUCHEN

One of the greatest attributes about the game of golf is the insights of a person's character you can get by playing a round of golf with him or her. In the spirit of competition during a stipulated round, many things are revealed about a person — their temperament, sense of humor, competitiveness, honesty, business sense, common sense, patience,

priorities, human spirit, and whether they can laugh at themselves and do not take themselves too seriously.

In our daily interaction with the golfing public, we also can learn a lot from these very diverse individuals even if we are not playing golf with them. I try to learn and absorb all of the good, positive aspects of an individual's character and learn as much as I can to become an even better turf manager. Just

walking a few holes while inspecting the course helps learn a golfer's opinions about the condition of the course while also learning other matters as well.

During meetings with owners, managers, directors and other course officials, we meet with some very successful people and many of their professional habits are sure to rub off on us. I have learned many managerial "tricks of the

trade" from such people as attorneys, accountants and personnel managers, for instance.

From attorneys I've learned how to take better notes, keep records during meetings on the telephone and in person, ask better and more thorough questions, take control of situations, and not only work hard but work smart.

Accountants are a valuable source for making a better

SAVVY SUPERINTENDENT



presentation in the maintenance and capital-budget process; how to better purchase goods and services; understanding business ethics; and understanding and writing better contracts.

Personnel managers can teach us much about hiring and firing practices, employee rules, regulations and handbook procedures, labor laws, and how to keep employees happy and productive.

We are in a wonderful position to visit with important people on a daily basis, and we should take advantage of these opportunities. After all, they are free of charge.

And we should never be afraid to ask a question unless we are afraid to learn and be better turf managers. Most successful people surround themselves with good people and learn from them.

King Cobra Tour drops metal spikes

ROCKVILLE, Md. — Recognizing the growing trend in spikeless golf, the King Cobra Collegiate Players Tour has announced that all tournament players will use Softspikes brand spikeless golf cleats. The announcement signals the growing preference for spikeless golf among tournament organizations and players alike.

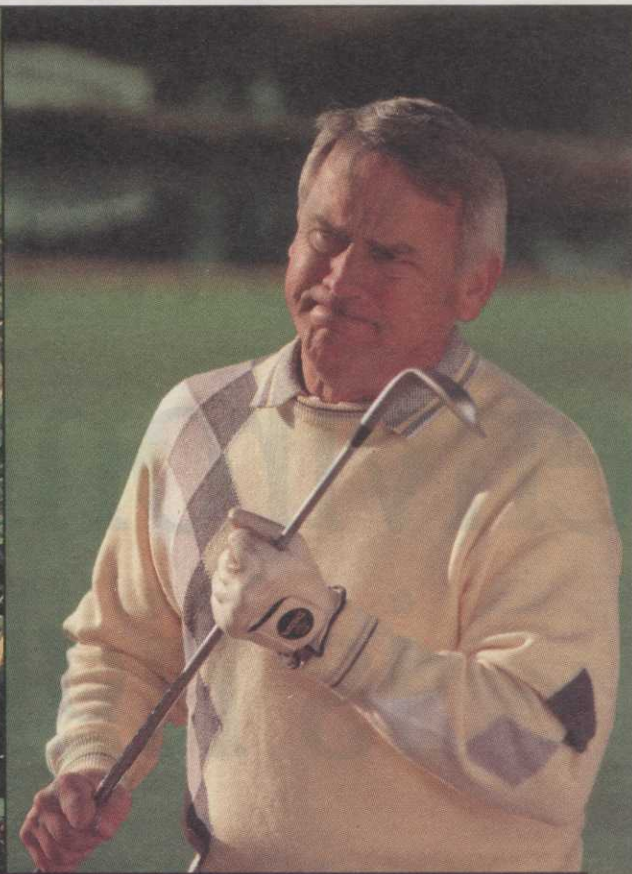
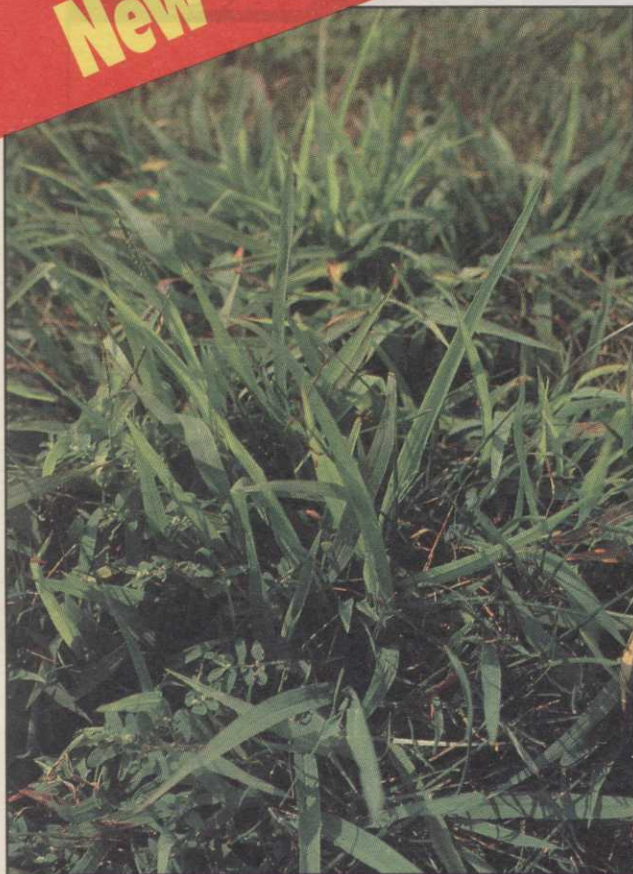
The tour, now in its third year, attracted nearly 600 participants last year. It is open to all players 18 to 24 seeking to hone their skills during the summer season.

Barry Rodenhaver, executive director of the King Cobra Collegiate Players Tour, said: "We're excited that Softspikes has focused its attention on the next generation of golfers. The response, so far, from the players has been nothing but positive. These younger golfers are usually the first to understand the benefits of innovations in the game, and more willing to embrace those which improve the game as a whole."

Jon Hyman, CEO of Softspikes, said: "This partnership indicates the importance of spikeless golf as a positive, significant trend which will only benefit the game. Softspikes is proud to sponsor the King Cobra Collegiate Players Tour, bringing the spikeless revolution to so many young players."

Brian Golden, Softspikes, Inc. senior vice president of sales and marketing, said the move means a "significant improvement in play."

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also still be used on bluegrass, ryegrass, zoysiagrass, fine fescue, tall fescue — even bentgrass fairways and tees. And ACCLAIM

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CIRCLE #112

Labs certified

Continued from page 15

"My feeling," said Brookside Agriculture Division Director Mark Flock, "was that as long as everybody is using the same methods and as long as we have a sample exchange program and get a handle on the variabilities between labs — and if everybody would participate — it would be great. We should keep it so it is not a policing force, but an assistance to the labs."

Thus far, two other labs are nearing accreditation and "a number are actively working towards applying for accreditation," said Roxanne Robinson, vice president of the Gaithersburg, Md.-based AALA. "If they [labs] sat back on their heels to see if the others were going to seek accreditation, now they are scrambling a little bit."

"It isn't an easy thing because so many of these labs have been operating for years not looking at any kind of specific quality-system standards, and suddenly the USGA has said, 'You will now meet AALA requirements...'"

Robinson said the problem with most soil-testing laboratories has not been technical, but rather "internal audits, document control, complaint handling, corrective actions, management reviews — those kinds of quality-systems support that are necessary to shore up the technical aspects."

"To me, the AALA makes you do an excellent job of quality control," said Flock, whose company was the first out of the blocks in attaining accreditation. "But it will be the sample exchange that will show if the tests themselves can be compared between labs as far as precision and accuracy is concerned."

The "sample exchange" he mentioned is being established by Drs. Bob Miller of the University of California-Davis and Janice Kotuby-Amacher of Utah State, who operate a similar program for agriculture labs through their Western States Testing Program (WSTP). According to Snow, a soil sample will be sent quarterly to labs to run tests and send the results to WSTP. WSTP will analyze the results and inform the labs if they are within reasonable standards.

"Some labs are going to participate in this program even though they are not going to be accredited," Snow added.

"The sample exchange will show if the labs can produce similar results," Flock said. "There is a certain amount of variability with every test. But right now we don't know exactly what that variation is for some of these tests. Not until we get the sample exchange between labs, and the same methodology and start discussing these differences will we know what to expect."

"For the reason of liability, we

will recommend accredited labs," Snow said, "and eventually, if you want to be in the business you will have to be accredited. Architects will do the same."

Mentioning a "core group" of six to eight soil-testing laboratories, Flock said: "If they get their accreditation, we get the sample exchange going and iron out any differences within the same procedures, I would think the contractors, engineers and architects will be very pleased. They can have a lot more confidence in the results."

AALA's Robinson said the ini-

tial cost of accreditation is around \$4,000 to \$5,000. Most of that cost is paying the expenses of a visit by an AALA representative — either Dr. Don Waddington, retired from Penn State University, or Dr. Bill Dest of the University of Connecticut.

"Those are the AALA fees," she said. "The time, energy and manpower they have to put into getting the quality system in their laboratory ready for an assessment would have to be considered as well."

The laboratories will have an annual review and be re-accredited every two years.

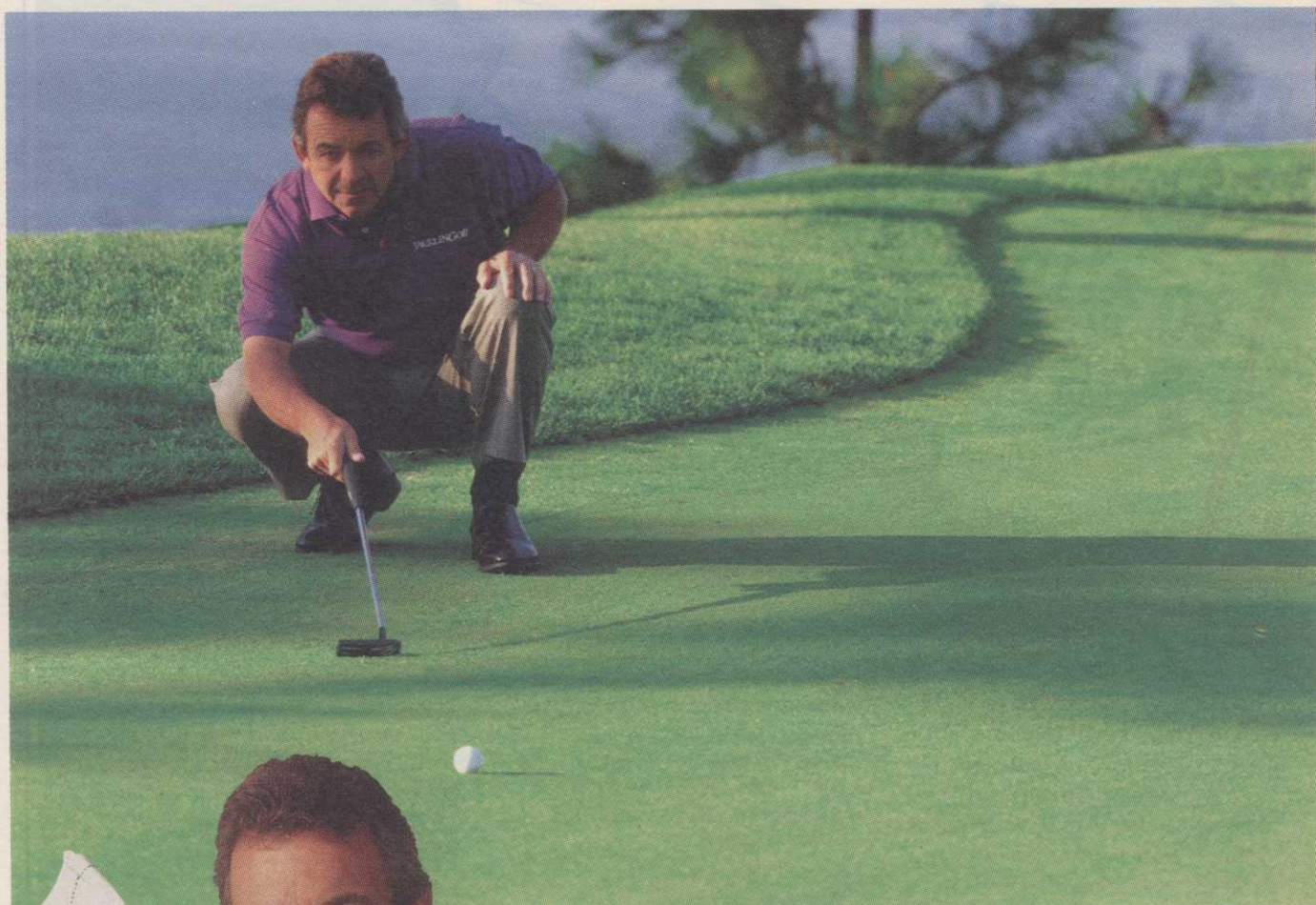
Pa. Turfgrass Council elects Kuhns and Smith to board

KING OF PRUSSIA, Pa. — The Pennsylvania Turfgrass Council (PTC) has re-elected Michael Smith of Gulph Mills Golf Club here and Mark Kuhns of Oakmont Country Club to its board of directors.

The PTC Secretary/Treasurer, Smith is chairman of the 1997 Eastern Pennsylvania Turf Conference and Show Committee and the Research Data Dispersal/Promotion Committee.

Kuhns chairs the PTC Membership and Turfgrass Endowment committees.

Meanwhile, PTC President Sam Snyder has appointed Dr. A.J. Turgeon to the Technical Advisory Committee. A member of the Department of Agronomy teaching turfgrass management at Penn State, Turgeon also serves as director of distance education in the College of Agricultural Sciences.



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CIRCLE #113

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

Davies leaves Merced for regional CourseCo post

SAN FRANCISCO — Ray Davies, former president of the Southern California Golf Course Superintendents Association and a *Golf Course News* editorial adviser, is leaving Merced (Calif.) Golf and Country Club to join CourseCo Inc. as regional superintendent.

Davies will be in charge of CourseCo's coastal Northern California territory which now includes Crystal Springs Golf Course here and Deep Cliff Golf Course in Cupertino. He begins his



Ray Davies

new job in late September.

...
LAKELAND, Fla.—Jeff Heggen has been promoted to superintendent of Rolling Hills Golf Club here by International Golf Management, Inc.

In his new position, Heggen is responsible for complete maintenance at the semi-private 18-hole Rolling Hills course.

Immediately before his promotion, Heggen served two months as assistant superintendent at Rolling Hills. He came to IGM from St. Marlo Country Club in Duluth, Ga., where he served as first assistant superintendent. Prior to that, he was assistant superintendent at Hilaman Park in Tallahassee.

Heggen earned his associate of science degree in golf course operations at Lake City Community College in 1992.

...
PEORIA, Ill.—With WeaverRidge Golf Club scheduled to open for the 1997 golf season, Geoff Kemp of Normal was named superintendent, and is working as course construction progresses.

Kemp has been the superintendent at Crestwicke Country Club in Bloomington since 1992. He has cared for several Peoria-area courses including Pekin Country Club, Pontiac Elks Country Club and Mt. Hawley Country Club in Peoria.

"I'm happy to be staying in central Illi-



nois, and excited about becoming a part of the development of what will become the region's top public golf course," Kemp said. "WeaverRidge Golf Club will be a challenging, well-built golf course that golfers from throughout the state will want to play."

...
EGG HARBOR TOWNSHIP, N.J. — Builder/developer Max Gurwicz & Son, Inc. has named Richard T. Broome golf course superintendent at Harbor Pines Golf Club & Estates here. Currently under construction, the 18-hole championship public course, designed by Stephen Kay, is scheduled to open this summer.

"When you look at Harbor Pines, you'll see a real difference — large, undulating greens, bold, well-laced bunkers, and spacious tee areas — that will challenge golfers of all levels," said Broome. "We're maintaining Harbor Pines like a private club with a manicured, Augusta National-style quality. Our golfers will be excited when they see the results."

A certified golf course superintendent, Broome has more than 20 years experience in course operations. He served as superintendent of the Little Mill Country Club in Marlton, N.J., where he maintained a private, 27-hole championship course.

A graduate of Rutgers University's Turf Management Program, Broome also studied business management at Burlington County College. He holds continuing education credits in turf management and golf course renovation, restoration and construction.



Richard Broome

...
VALPARAISO, Ill. — Thomas Tully of Aurora has been hired as superintendent at The Course at Aberdeen, which is under construction and scheduled to open in 1997.

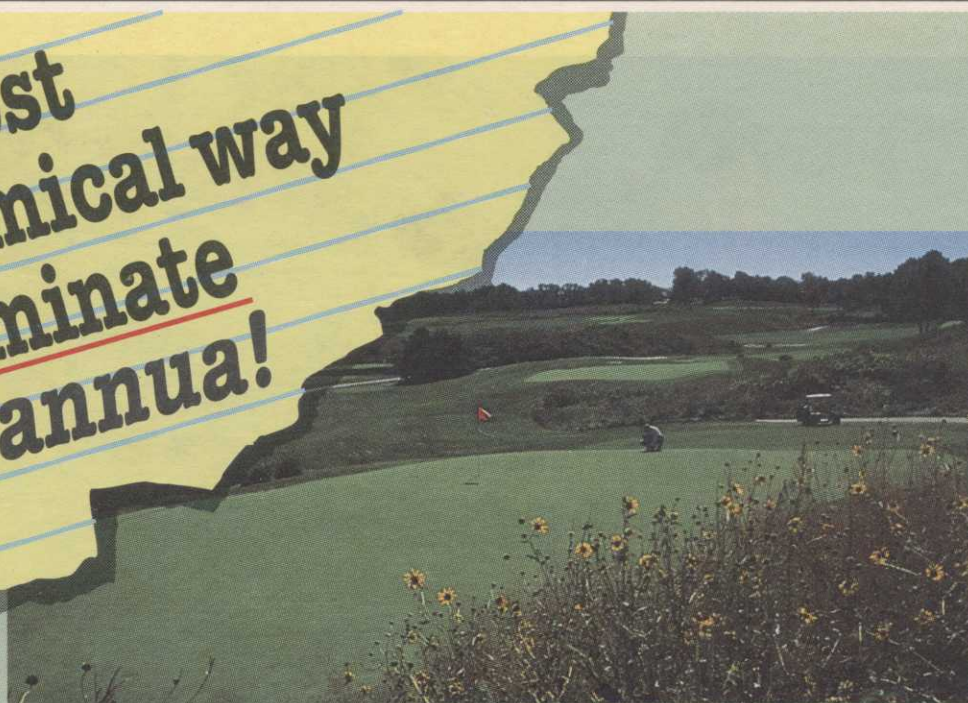
Tully spent the last four years as the assistant superintendent at Stonebridge Country Club in Aurora. His responsibilities while at Stonebridge included preparing the golf course for the PGA Senior Tour's Ameritech Senior Open, which was played there from 1993-95.

"The responsibility of growing and opening a new golf course is a very exciting proposition," Tully said. "Everyone involved with The Course at Aberdeen is committed to providing public-course golfers with top-quality playing conditions on a premier design."

Prior to coming to the Midwest, Tully spent eight years working on the Tournament Players Clubs at Sawgrass and Eagle Trace in Florida. He helped prepared the TPC at Eagle Trace for the PGA Tour's Honda Classic from 1984 to 1990.

...
WICHITA, Kan. — Donald Harrison has left Clapp Golf Course here to take over as superintendent at Pawnee Prairie Golf Course, also in Wichita.

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- may be applied during the dormant season or growth period
- can be tank mixed with most turf care products including liquid fertilizer

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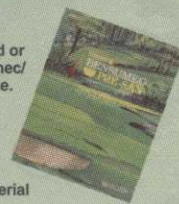


Stuart Cage, C.G.C.S., Old Oakland Golf Course Indianapolis, IN

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007/896

Brookside's rain shelters shield, refresh

By TERRY BUCHEN

COLUMBUS, Ohio — Two different rain-shelter designs — one as a stand-alone structure and the other an expansion of an existing building — have been incorporated at Brookside Golf and Country Club here.

"We took the drive-in restaurant theme onto the golf course," said superintendent Carl A. Wittenauer about his stand-alone shelter. It sits adjacent to a teeing area, in the natural traffic flow of golfers traveling from the previous green:

"Our rain shelter is used, rain or shine, to shield our players from the sun while offering refreshments from an electric drinking fountain and providing a ball washer, trash receptacle and bench for their enjoyment," he said, "all accomplished without ever leaving the golf cart path."

The other rain shelter was added to the building housing Brookside's irrigation well.

"We simply added a concrete floor, vertical support beams faced with similar stone to our clubhouse, added some interior benches and a telephone

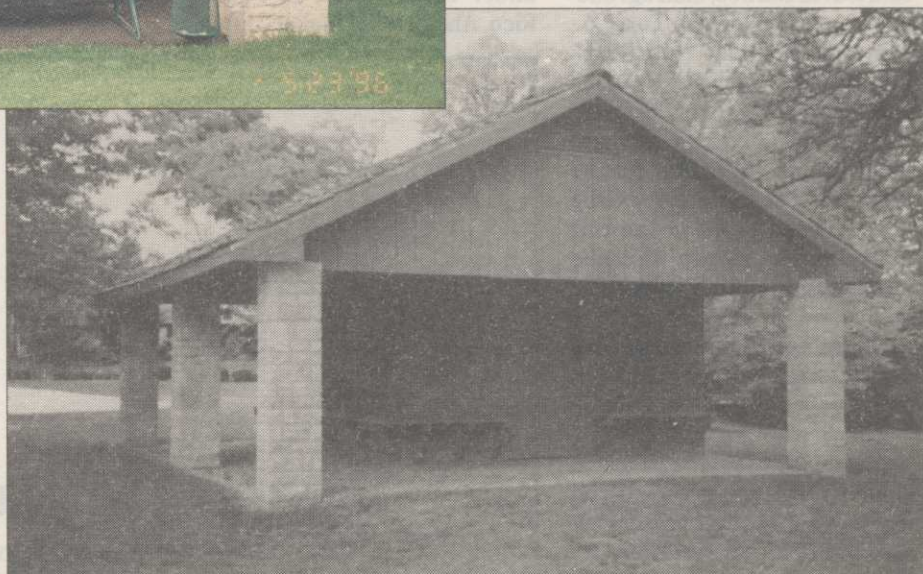


Carl Wittenauer's "drive-in restaurant-type" rain shelter, above, and attached shelter provide all the protection and needs of Brookside Golf and Country Club golfers.

for convenience," Wittenauer said. "Golf cars can be driven underneath in several locations."

Both structures are protected with lightning rods at both ends.

"Our golfers are very happy about these amenities and how they have blended in with our other stone-faced structures to carry out our central theme of elegance throughout the club grounds," Wittenauer said.



USGA names Parkes communications head

FARHILLS, N.J. — Marty Parkes, who served as manager of the Green Section communications for the last 18 months, has been named the director of communications for the United States Golf Association.

Parkes will lead the communications department in distributing authoritative information on the game of golf. He will oversee and have responsibility for media relations, the publication of Golf Journal, the USGA's official magazine, and the successful Members program. Nearly

700,000 golfers receive Golf Journal, which is published nine times a year.

Parkes is a 1981 graduate of Trinity College in Hartford, Conn., and completed the graduate program in international relations at the London School of Economics and Political Sciences in London in 1983. Parkes joined the USGA in 1991 as manager of communications and staff writer for Golf Journal. In October 1993, he shifted roles to become manager of publications while continuing to contribute articles to the magazine.

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Changing the Course.

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By HAL PHILLIPS

SOUTH LAKE LAND, Fla. — GN-1, the new fairway Bermudagrass from Greg Norman Turf Co., has not been university-tested. It went straight from the test plot to the national Bermudagrass trials — under the name CT-2 — to the marketplace.

Most turfgrasses on the market today have undergone university testing. Why the aberration with this new grass?

"We're not trying to do anything that isn't well founded," said David Barnes, staff agronomist for Greg Norman Turf Co., a division of Great White Shark Enterprises. "With Greg's name and reputation, we certainly wouldn't do anything to harm that. To put his name on the grass we had to be sure. Greg doesn't need to be in the turf business. The money we make now isn't going to affect the way he lives."

"Right now there are several dwarf Bermudas being sold that aren't university-tested," added Barnes, who named Quality Dwarf and Classic Dwarf as examples. "We are going to run through some trials at the University of Florida, but there really isn't a testing procedure for turfgrass that gives me the data

No university tests no problem for GN-1

I need. You get that information in the field, which is why we made the decision to put this grass in selected areas."

GN-1 will make its 18-hole debut here at The Club at Eaglebrook, a Ron Garl design scheduled to open next month. Sugarloaf, the Norman-designed course outside Atlanta and future home of the Bell South Classic, will feature GN-1, as will Real Mar, another Norman design under construction in Puerto Rico. Also, The Medalist Club —

a Norman/Pete Dye collaboration in Hobe Sound, Fla. — has two holes already grassed with the new Bermuda.

GN-1 is a hybrid developed from an Australian strain by Aussie Hugh Whiting, who tended to an experimental field of the grass in San Diego starting in 1988. Whiting was so impressed he patented the product. Enter Barnes and Norman, who were so impressed they decided to market the turf nationally.

GN-1 may have bypassed uni-

versity testing but Barnes is no turfgrass renegade. In fact, he holds a degree in ornamental horticulture from the University of Florida. He also spent 12 years as a superintendent, owned his own turf supply and consulting business, Agronomic Resources, from 1983 to 1994, and currently serves as secretary-treasurer of the Florida Turfgrass Association (FTGA).

While it may not have the university stamp of approval, Barnes noted that GN-1 will be one of

the first Bermudagrasses certified by the Florida's new certification process administered by the Southern Seed Certification Association, the FTGA, the University of Florida and Florida Foundation Seed.

"We haven't forced GN-1 on anyone," said Barnes. "Real Mar chose it because they have 419 on another course and have tremendous nematode problems. The people at Sugarloaf chose it because it has better cold tolerance than 419."

"We're not cutting corners. We really feel this grass is an improvement on the norm."

N.E. supers fund research

Golf Course Superintendents Association of New England Vice President Kevin Osgood of Newton Commonwealth Golf Course has announced the association will fund several turfgrass research grants.

GCSANE is supporting Dr. Gail Shuman of the University of Massachusetts with \$6,988; Dr. Robert Wick, University of Massachusetts, \$6,000; and Dr. Bridget Ruemmele, University of Rhode Island, \$9,000.

The money is raised by the members of the association through their Research Tournament and the Annual Turf Conference and Show.

"All our courses and golfers in general enjoy improved playing conditions due to research efforts of the university community, and the GCSANE is committed to support these efforts," Osgood said.

However, Osgood is most excited about the association's newest research effort — an economic impact study of golf in the Commonwealth of Massachusetts. GCSANE has obtained similar studies from other states and Osgood believes such a study will benefit all aspects of the golf industry. The initial appropriation will define the protocol and methodology of the study.

Osgood and the members of the GCSANE board of directors hope that once the ground work for the economic impact study is completed, allied associations will assist in its completion.

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consistent preemergent coverage. Constant particle size monitoring results in smaller, more consistently sized particles than typical products — resulting in up to 3 times the

New Bermudagrass puts Norman's emerging turf reputation on line

Continued from page 15

from Greg Norman Turf, a subsidiary of Great White Shark Enterprises. According to Norman's staff agronomist, David Barnes, GN-1 is the brain child of Australian Hugh Whiting, who had cultivated a field of GN-1 at Pacific Sod in San Diego as early as 1988. Whiting has since patented the strain.

When Dye and Norman were working on The Medalist, Norman asked Barnes to search for Bermudagrass alternatives.

There were only enough sprigs to grass two holes, but Norman and Barnes were so taken with the strain, they decided to market it nationwide under the name GN-1.

"In order to have a patent on something, you have to prove there are at least three things that set it apart from other products in the marketplace," explained Barnes. "The three things Whiting cited are: It thatched less in the same growing conditions, greener color and

better cold tolerance.

"We have a lot of confidence in this grass. We've been working with it for nearly two years and Pacific Sod has had it since 1988... We feel this grass is an improvement on the norm."

Of course the "norm" is 419, which has set the industry standard for more than 30 years. Don Roberts of Southern Turf Nurseries, which grows and produces 419, said he isn't terribly familiar with GN-1 but is keeping an open mind.

"We're eager to look at any new variety," said Roberts. "And if we find it stands the test of time, we'll be the first ones to sign and become a contract grower — if it truly is the next best grass, the future grass, let's say."

"I think the industry is ready for another grass that will do things better in certain environments."

What sets GN-1 apart? According to Wagner, its aggressive nature and green color do. Be-

fore sprigging in April, Wagner visited The Medalist Club where areas of GN-1 meet 419, making comparisons easy.

"Originally, the color of GN-1 was what I saw," said Wagner. "It's also more aggressive. It will take more edging, verticutting and top dressing to maintain it. Also, I think the leaf blade is a little coarser than 419. When sod was first coming in, you could see the leaf blade is a little wider, a little more purple. But David [Barnes] tells me that, when you start mowing it, it improves."

Barnes said Norman himself likes the new grass because the ball sits up better. Barnes also said GN-1 is not only a darker shade of green than 419, it is more tolerant to nematodes.

"And maybe most important," he added, "GN-1 is a pure strain, a new strain. We had 16 holes at the Medalist done with 419 and you could see all sorts of colors and seedhead formations. If you go back to 1962 [when 419 was introduced], there have been mutations over the years. With 419, you see a grass that is 30 years older."

The ultimate testimonial, however, won't be available until Eaglebrook opens its doors this fall. Early reports have been extremely positive, but all the players in this drama — Barnes, Earl and Wagner — realize their reputations are staked to the success of GN-1 and Eaglebrook. Wagner and assistant Steve Gano, who have worked side by side on the grow-in, know this better than anyone.

"Everything at this job I take personally," Wagner said. "So my job and recommendation on grass is important. So far I've been real impressed with it. But if something went wrong, it would probably be my [job]."

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Beatrice CC 1st Audubon-certified course in Neb.

BEATRICE, Neb. — Beatrice Country Club is the first golf course in Nebraska and 69th in the nation to achieve designation as a Certified Audubon Cooperative Sanctuary by the Audubon Cooperative Sanctuary System.

"We began working towards complete certification in the fall of 1994," said Casey Crittenden of Beatrice Country Club. "Our members have been supportive of this program and without that support we would not have been able to establish our facility as an environmental leader."

Crittenden acknowledged the foresight of Bill Love, the course architect, and H&H Golf, the course contractors, for creating several areas around the property that were turned into natural settings for wildlife habitat.

Superintendents pioneer actions to enhance wildlife

Continued from page 15

"Was I surprised to find superintendents were environmentalists?" asked Marla Briggs, staff ecologist at Audubon International who works with the Audubon Cooperative Sanctuary Program (ASCP) for Golf Courses. "Definitely. A friend said golf courses are pretty much biological deserts. And when I started here, I was hooked into that stereotype. But I've been here three years and it's been great."

Briggs, who owns a master's degree in environmental studies, said she found superintendents were working extensively with Integrated Pest Management, but few were enhancing wildlife.

"Therefore, this opens up a new world to them," she said. "That is the most satisfying part of my job, to talk to superintendents and hear them get excited."

Netwal, Ewoldt and Kerfoot are among the ASCP members who accepted the mantle of environmental stewardship and aggressively taken their message to the public.

"I relish the opportunity to show people the course," said Netwal. "When I first started here some of my toughest customers were the park rangers. But I asked their advice on some things, allowed them to participate and now they are among my biggest promoters. One said to me that in our whole system I probably do more in conserving things than [the rangers] combined. That's a high compliment."

"Most people in our industry work closely with nature," said Kerfoot. "When I first started 15 years ago, the chemical revolution was going on. They looked to chemicals to cure problems. For various reasons everybody's taking a closer look at the environment, looking for friendly chemicals and reducing their use. It makes me proud."

"Turf management is so much more sophisticated than farming," said Tom



Hank Kerfoot and wife Mary, an environmental education teacher, speak to schoolchildren at Carmel Country Club in Charlotte, N.C.



'We invited all the local environmental groups to ask them what we should do to make them happy... They were awed at what we were doing.'

— Don Ewoldt, director of grounds
Sand Creek Country Club

Mead, a former superintendent at Crystal Downs who is now a design associate with Tom Doak at Renaissance Design in Traverse City, Mich. "Superintendents on a whole are more tuned in to the environment than people in other fields."

That environmental awareness, he said, "has become mainstream and broad in the industry in the last three to five years."

With that widening has come more wide-ranging initiatives. To wit, Netwal at Glens Creek has:

- made it a primary cause to pass out bluebird boxes to visitors, including 60 superintendents who held a chapter

meeting there last spring. Each box contains information on mounting, placing, maintaining and monitoring it.

- built several shallow ponds for wildlife purposes, including one as an Eagle Scouts project.

- appears occasionally on a local television station's Earth Alert segment, "getting the word out about the positive things going on in golf."

Backed by strong support from General Manager Jerry Mobley, Ewoldt and superintendent Phil Lau at Sand Creek:

- initiated a Junior Conservation Society which, among other things, involves youths in Fantastic Tuesdays

— a time set aside for such activities as taking nature walks and building birdhouses, then monitoring them.

- signed up six of the eight area schools for AI's Adopt-a-School Program in which Ewoldt helps the schools improve wildlife habitat on their grounds. "We have a lot of fun with it," he said. "The kids do, too. I'm getting high schoolers monitoring the houses. Right now we're doing a lot of planning. We've got teachers interested and schools registered. They're talking about wildflower gardens and other projects like that."

- plan, starting in October, to carry out a stabilization project along about 3,700 feet of creek bank troubled by erosion. Now that the creek has been dredged, crews will build steps out of the banks and use netting and plant materials to stabilize them. "We will also build ripples and little dams and pools to encourage steelhead trout upstream," Ewoldt said.

- set up an informational billboard and display table in the clubhouse and had two books on Sand Creek and ACSP hardbound for the club's library.

At Carmel Country Club, Kerfoot:

- alongside his wife and environmental education teacher Mary, will work with the North Carolina Cooperative Extension Service on Project Learning Tree this fall. School teachers, Scout and 4-H leaders — "anyone involved with outdoor education and natural resources" — will be taught about wildlife.

- is exploring working with the National Quail Society (NQS) on a planting project to sustain a quail environment. The NQS will then transplant quail to the property.

- is working with the local power company on a long-range vegetative planting plan along its power lines.

Meanwhile, recycling has become a community-help project at Carmel

Continued on next page

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GC at Newcastle is given env'l excellence award

SEATTLE, Wash. — The Golf Club at Newcastle, an upscale 36-hole public/private facility being built on a former coal mine, was one of five projects around the country to be recognized with an award for excellence in environmental health from the National Association of County and Health Officials (NACHO).

The 350-acre, \$40 million project was cited as an outstanding example of cooperation and innovative use of a former landfill.

The Golf Club at Newcastle, which will feature an 18-hole daily-fee course and an 18-hole private course, is being developed by the Bellevue, Wash.-based Oki developments.

The first of the two courses, both of which are being designed by golf course architect Robert Cupp, will open in 1997. Fred Couples assisted Cupp in the planning of the courses.



'I keep running into people on a daily basis who say the golf course is great, but this wildlife really makes it special.'

— John Netwal
Glynn's Creek Golf Course

Supers aggressive in environmentalism

Continued from previous page

Country Club and Sand Creek. Proceeds from Carmel's recycled materials are given to the nearby Carolina Raptor Center that helps injured birds, while Sand Creek's proceeds are donated to schools for environmental projects.

"We've got an aggressive recycling program," Kerfoot said. "We try to recycle everything and put as little as we can in the dumpster. We're learning new ways all the time. We return flower pots to the distributor—a nursery. We've started taking on clubhouse materials as well. They are preparing to do a renovation and we felt they should find out how to recycle before they built. It involves a tremendous volume of things."

Ewoldt sees that grass clippings and compost are given to the golf course

community homeowners for flower gardens.

Ewoldt and Kerfoot took their message to the masses by hosting environmental symposiums, inviting such activists as the Sierra Club. The events have paid dividends.

"We invited all the local environmental groups to ask them what we should do to make them happy, so we could still develop the land and make money and provide an area for recreation," Ewoldt said. "We had a real amicable meeting... They were awed at what we were doing."

"I spoke at Sierra Club meeting on water quality as it pertains to golf courses," Kerfoot said. "They were really good. I've been up front with them since I first invited them out here. Every problem they could point out, I had



Golf course superintendent John Netwal, third from left, with Eagle Scouts who constructed a shallow pond for wildlife purposes.

already identified and had a plan for."

The educational tide may be turning, they agreed.

"I felt it was important the way the industry is going, the pressure put on us, the heightened public awareness of environmental issues, to show that golf courses can fit in a park system like this," Netwal said. "I believe I have the

documentation to support my claim. I keep running into people on a daily basis who say the golf course is great, but this wildlife really makes it special.

"I will keep working to get the word out," he added. "People sometimes have to hear it twice, three, four times before they say, 'That golf course out there is maybe all right.'"

Delhi honors industry supporters as it opens dual-purpose course

DELHI, N.Y. — More than 250 golfers and others joined in the grand opening, July 22-23, of the expanded Delhi College Golf Course which will serve as a classroom for the school's turfgrass program as well as other things.

The course, which now features a full 18-hole layout, "is an outstanding community and educational resource," said Mary Ellen Duncan, Delhi College president.

July 22 was Community Appreciation Day and brought together those instrumental in developing the original nine holes with those who played key roles developing the back nine.

William Kensela, who served as Delhi president from 1955 to 1973, was the driving force behind the golf course. "He did an outstanding job rallying community support for the project," Duncan said. As a result, more than 180 local residents pledged financial support to get the golf course started in 1963 and many others have been instrumental in the course's growth since then.

To recognize their roles, Duncan dedicated the first hole to the Founders of the Delhi College Golf Course. Lynn Abarno, Kensela's daughter, represented the Golf Course Founders.

Fund-raising was also a critical part of developing the back nine.

"The course is a partnership between the community, the turf industry and the Delhi College Foundation," Duncan said. "State tax dollars are not used to support the course."

Key contributors honored July 22 were the Clark Companies of Delhi, the Delaware National Bank of Delhi, and Louis and Mildred Resnick of Ellenville.

The Clark Companies, who build golf courses and athletic facilities, served as general contractor for the back nine. But its role went much further, Duncan said, adding: "This has been a labor of love for Scott Clark and he has dedicated the full resources of the Clark Companies to this

project. We are deeply indebted to them for their expertise and support and will dedicate the 14th hole in honor of the Clark Companies."

Delaware National Bank of Delhi sees the course as "a major resource for the area and has donated \$25,000 to fund-raising efforts," Duncan said. The 10th hole will be dedicated in honor of the bank.

The Resnicks donated \$25,000, and the 18th hole will be dedicated to them.

Officials noted that the course expansion is tied to its role as an educational resource.

"Delhi is committed to being a national

leader in preparing students for careers as golf course superintendents," Duncan said. "This project represents another step toward that goal. The 18-hole course allows us to give students the complete, hands-on training the industry demands."

It is also the reason the industry threw its support behind fund-raising efforts. The college's Turf Management Advisory Council was a driving force behind the course expansion. Since then, nearly 50 businesses and industries have pledged more than \$250,000 in financial or in-kind support to the project.

Officials saluted their "confidence in the Delhi approach to golf education," Duncan said, and pledged to return their investment by providing the industry with "the highly skilled professionals they have come to expect from Delhi."

The New York State Turfgrass Association (NYSTA) and S.V. Moffett Co. of West Henrietta were recognized.

"S.V. Moffett has been providing Delhi's turf and golf programs with top-of-the-line maintenance equipment for more than 10 years," said Dominic Morales, professor and chairman of Delhi's Plant Sciences Department. "Plus, Steve Moffett was instrumental in obtaining major donations toward the irrigation system and the other equipment used in the golf course expansion." The 15th hole was dedicated to Moffett.

NYSTA, Morales said, "gave the lead donation that led to construction of our new Turf Education Center. They also pledged \$25,000 to the golf course expansion." The 13th hole was dedicated to the association. The course opened for play on July 24.



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GCSAA News Update

Job opportunity and continuity assume high priority

LAWRENCE, Kan. — The Career Development Committee of the Golf Course Superintendents Association of America (GCSAA) met recently at association headquarters here to discuss issues related to the GCSAA's mandate: "expand employment opportunities and influence job continuity."

The panel focused on members' employment concerns, including wrongful termination, unethical employment searches and ways to educate employers on the business consequences of hiring a less experienced superin-

tendent over an experienced superintendent.

The committee offered suggestions to begin addressing these issues immediately, such as:

- updating GCSAA's sample employment contract and educating members on its use.
- working with chapter leaders to provide timely and appropriate information to employers during catastrophic weather conditions.
- educating members on the culture and ethics of the profession.
- using Leader Board to communicate these issues to employers, Leader Board, a GCSAA bimonthly publication, is designed to provide

leadership and management information to decision makers.

Committee Chairman Tommy D. Witt of Wynstone Golf Club in North Barrington, Ill., and the 12 committee members agreed that communication is key to a superintendent's success.

"We know that employment security is a top concern of our members, and we are implementing programs to provide critical information to employers," Witt said. "But, crucial to each superintendent's success is communication between the superintendent and his or her employer, every single day."

Membership rules targeted

LAWRENCE, Kan. — The Membership Committee of the Golf Course Superintendents Association of America met at association headquarters April 27 and 28 to review several association membership policies and discuss several long-term issues that may impact the association.

First on the agenda was the development of an official Standing Rules of Membership document which would codify current policies, ensuring all members are treated equitably on all membership classification and benefit matters.

The next discussion concerned the recent bylaws change affecting the Class C membership category. The committee voted to recommend a bylaws amendment establishing two levels within class C.

The committee's proposal would establish a "C-1" classification for all assistant superintendents with less than three years' experience. C-1 members would have reduced membership dues with no voting rights and would carry a green membership card. To recognize professional assistant superintendents, all assistants with three years experience would move into Class C, pay regular membership dues with the right to vote and carry a gold membership card. This proposal will be forwarded to the Standards/Bylaws Committee for consideration at its fall meeting.

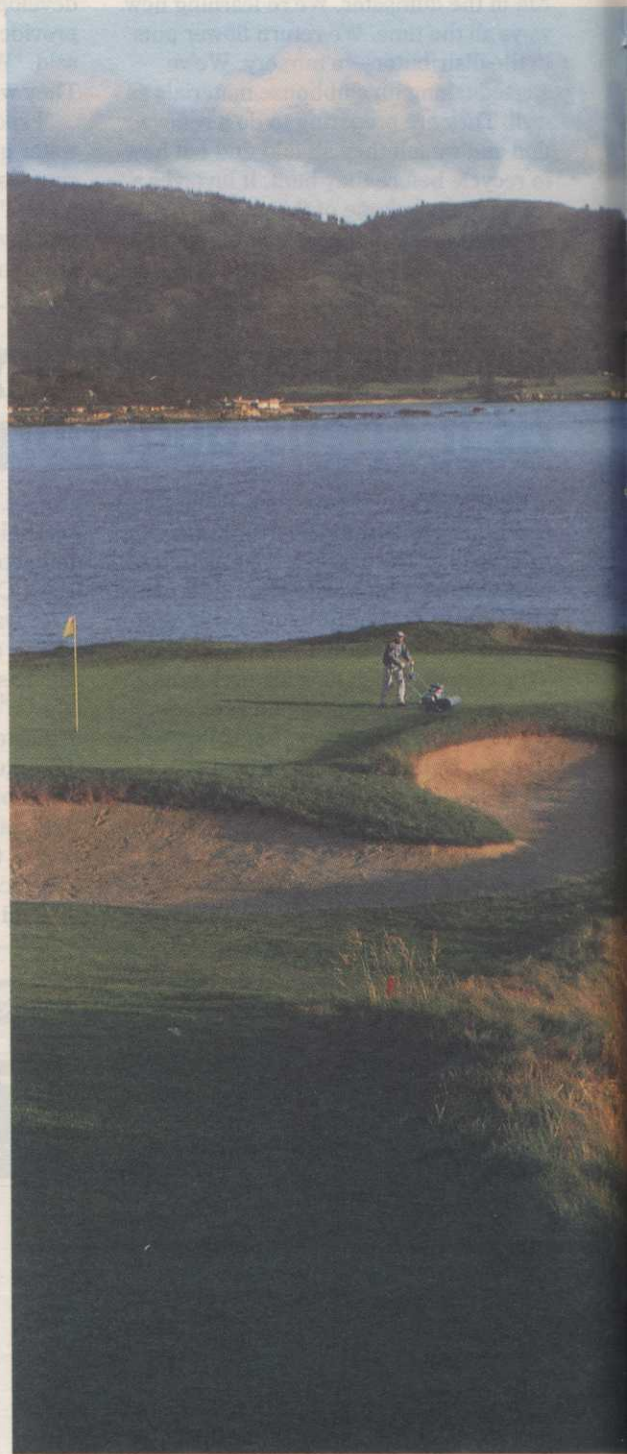
In addition, the committee discusses establishing entry-level and continuing membership standards. They agreed that chapters, chapter delegates and all committees need to be involved in standards discussions. The committee recommended a task force/resource group be appointed to investigate the issue.



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Tournament panel prepares Vegas championship

IRVINE, Calif. — The Tournament Committee of the Golf Course Superintendents Association of America (GCSAA) has finalized recommendations for the 1997 members-only golf championship to be held in Las Vegas, and to preview courses for the 1998 tournament.

More than 700 golfers competed in the 1996 GCSAA Golf Championship held in February in Orlando, Fla., as part of GCSAA's International Golf Course Conference and Show. The Tournament Committee has recommended to the association's board of di-

rectors that registration not exceed 720 participants. Other committee recommendations include:

- Changing the tournament entry deadline to Nov. 15.
- Enhancing the tournament software package to ensure timely postings of second-day tee times and correct pairings, including an automated tee-time system.
- Grandfathering entry into the 1997 event those competitors who have played three of the past five years, if registration is received on or before Oct. 1, 1996.

- Providing handicap and flight information to participants in advance.

The committee's recommendations were approved by GCSAA's board of directors at its spring meeting, May 2-5 in Lawrence, Kan. The 47th GCSAA Golf Championship will be held next Feb. 5-6, in Las Vegas at Sunrise Country Club-West Course, Badlands Golf Club, Las Vegas Pauite Resort - Nu-Wav Kai (Snow Mountain) and Tav-ai-Kaiv (Sun Mountains) Courses, Wildhorse Golf Club and Las Vegas Hilton Country Club.

Student essay winners named

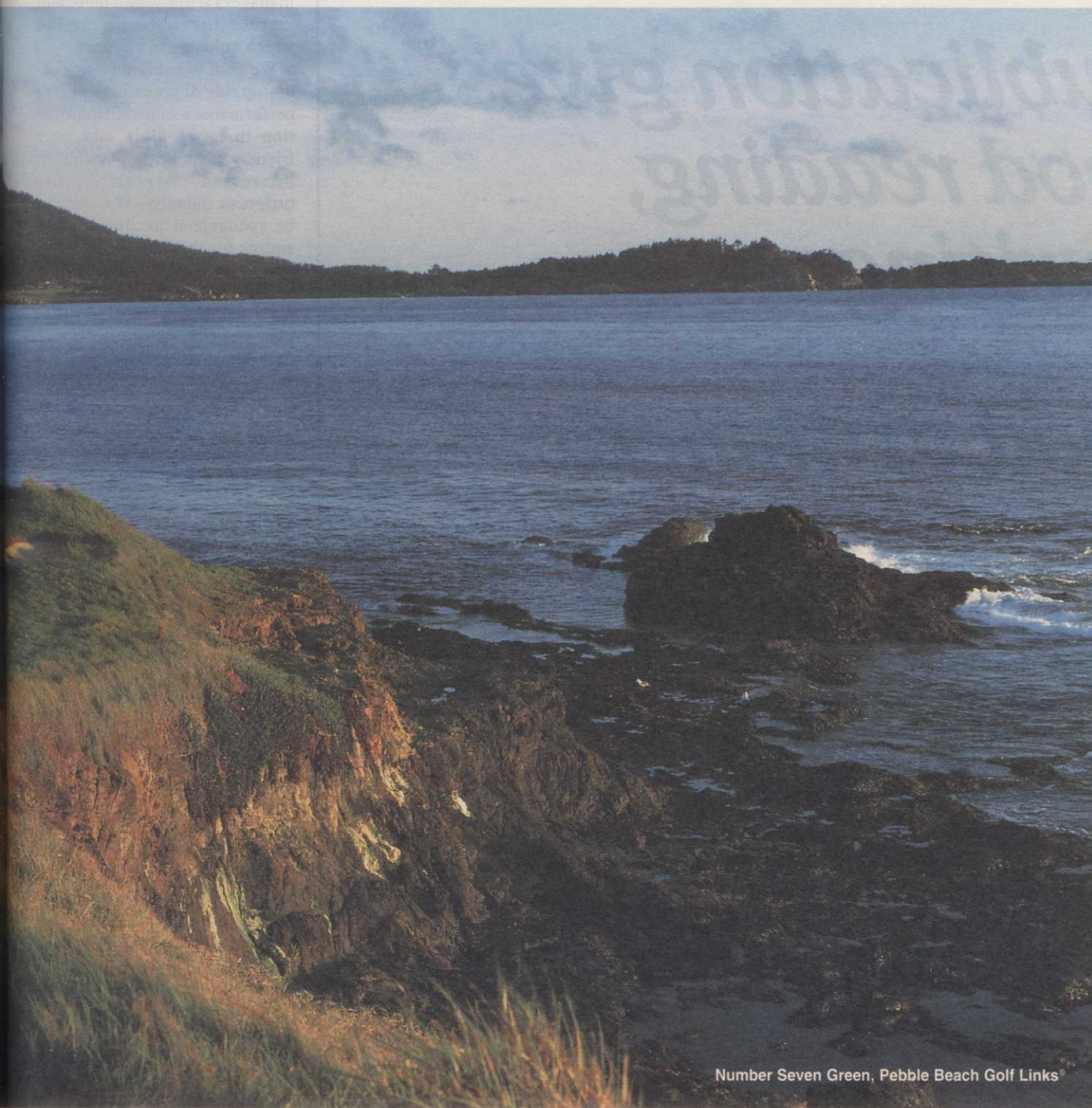
The board of trustees of The GCSAA Foundation, a subsidiary of the Golf Course Superintendents Association of America, has announced the three winners of its student essay contest. The contest is designed to promote environmental awareness among tomorrow's golf course management professionals.

The essay chosen by the judges for first place was "Three-Phase Golf Course Ecosystem Management for Cool-Season Turfgrass Environments," which was written by Matthew J. Fagerness, a master's degree candidate at Michigan State University in East Lansing, Mich. Fagerness will receive a cash prize of \$1,000 and plans call for his essay to be published in the August edition of Golf Course Management magazine.

Second place of \$600 went to Keith L. Williams, second-year student at the Institute of Applied Agriculture at the University of Maryland, College Park, Md., for his story, "IPM: All Things Considered."

The third-place award of \$400 went to Allison North, first year student at the Southern Alberta Institute of Technology, Calgary, Canada, for her essay, "Help Students Help Promote Sustainable Golf Courses."

All essays focus on the relationship between golf and the environment. The contest drew nearly 20 qualified entries. The annual contest is open to undergraduate and graduate students pursuing degrees in turfgrass science, agronomy or any field related to golf course management.



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MEMBERSHIP TOPS 16,000

Membership in the Golf Course Superintendents Association of America has exceeded the 16,000 mark. As of May 31, membership totaled 16,039.

Superintendents, assistants, business professionals, educators, students, corporations and others enjoy the services and benefits provided by GCSAA membership. A professional staff of more than 90 now serves the membership from association headquarters in Lawrence, Kan.

Nebraska's Shearman leads turfgrass testing 'back to the future'

Bob Shearman is executive director of the National Turfgrass Evaluation Program and professor of horticulture at the University of Nebraska-Lincoln, both half-time appointments. His research and extension contributions have focused on wear tolerance, water conservation, drought resistance, root growth and development, potassium nutrition and integrated pest management. He serves on the U.S. Golf Association Turfgrass and Environment Research Committee, Golf Course Superintendents Association of America Research Committee, TPI Research Committee and Musser Foundation board of directors.

Q & A

Dr. Robert Shearman



Golf Course News: What is your major job as the executive director of NTEP?

Robert Shearman: I am ultimately responsible for administering the program, providing leadership and developing long-range plans for future activities. My specific activities include soliciting entries from university and commercial plant breeders for our various turfgrass trials; negotiating with universities and developing research agreements

for cooperators to conduct the trials and collect performance data; coordinating with other organizations, such as the USGA, GCSAA, TPI, and Professional Lawn Care Association (PLCAA) to avoid duplication of research efforts; and developing partnerships with NTEP to better serve specific clientele needs. Some examples of the latter activity are developing on-site testing on golf courses with USGA and GCSAA as co-sponsors and equal

partners in this activity, and sod tensile strength assessment in Kentucky bluegrasses with TPI.

I am also responsible for overseeing the scientific merit of our studies and ensuring quality control for data collected and reported. I also seek ways to analyze and report our data in more meaningful and useful ways for our end users.

GCN: What does NTEP hope to accomplish over the next few years?

RS: There is tremendous interest in developing new cultivars to meet the needs of the turfgrass industry. Turfgrass managers are finding it more and more difficult to determine which cultivars to choose.

We plan to continue our leadership role of providing cultivar performance evaluation information in as credible and user friendly manner as possible to interested clientele in the turfgrass industry. We want to be recognized as the primary source for this kind of information.

We recently developed a strategic action plan for NTEP. This plan provides insight and direction for future developments and will serve as a vehicle to focus NTEP activities.

The plan will continue improving data collection, analysis and reporting procedures. We have already made strides in this regard. The 1995 National Kentucky Bluegrass Cultivar Trial is our first attempt at a test that will allow us to report results on national and regional levels, and specific management regimes. Some locations will conduct ancillary trials that will supply information on such as shade traffic and disease tolerance and insect resistance.

GCN: How can NTEP be further developed to deliver its information more easily and in usable form to course superintendents?

RS: Like most organizations, we are gearing up for the information age. Superintendents will soon be able to access our web page on the internet to access reports electronically. They will also be able to obtain hard copy reports. In addition, we are changing our report procedures to make the data easier to interpret.

Many superintendents use our information as one of their sources in making decisions on cultivar selection. However, we feel there are limitations as to the usefulness of some of our data for the golf industry because it may not have been collected from trials conducted under golf course maintenance conditions.

Two things are happening with future trials that will help resolve this concern.

First, trials are being con-

Continued on next page

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Q&A with Shearman

Continued from previous page

ducted at varying levels of intensity of management, and we are able to separate cultivar performance by management intensity. Superintendents will be able to use this data to select cultivars that are performing under conditions that are closer to those faced on the course.

Second, we have formed a partnership with GCSAA and USGA to conduct on-site trials specifically for golf courses. These trials will provide performance evaluations under real-world conditions.

GCN: Tell us more about these "on-site" trials? Why are they being done?

RS: Actually, I like to call the on-site testing program, "Back to the Future!" Prior to the development of strong turfgrass research programs at land-grant universities, most information about turfgrass performance came from tests conducted on golf courses. Recently, we moved away from course tests to the more controlled conditions of university research sites.

Superintendents, plant breeders and commercial seed companies have expressed interest in having data from trials conducted under conditions more closely associated with actual play. Therefore, the USGA, GCSAA and NTEP are preparing to jointly sponsor on-site putting green trials for creeping bentgrass and Bermudagrass. This is a partnership effort which will be cosponsored by each organization and administered by NTEP. On-site trials will not take the place of official NTEP trials, but will be conducted in addition to them.

GCN: What is their status?

RS: The USGA, GCSAA and NTEP have agreed to initiate putting green evaluations of creeping bentgrass cultivars in the fall of 1997 and Bermudagrass cultivars in the spring of 1998. These trials will be evaluated for five years. The plan is to conduct trials at 15 locations. Five trials with creeping bentgrass will be conducted in the cool-season turfgrass adaptation zone, five trials of Bermudagrass in the warm-season adaptation zone, and five trials each of creeping bentgrass and Bermudagrass in the transition zone.

GCN: What sites will be selected?

RS: The on-site trials will be located on a course near a land-grant university with a turfgrass research program or in a major metropolitan area readily accessible to a university turfgrass scientist. Trials will be located where golfers will practice putting. The USGA will fund the construction of USGA specification greens for the trials. Host courses will provide daily maintenance of the putting greens. Preferably the host course has a history of supporting the USGA and receiving visits from USGA agronomists. The superintendent should have demonstrated skills, a record of supporting GCSAA, and good relationships with the university scientist who will have ultimate responsibility for the trial. NTEP will collect data from the cooperators, analyze and summarize it, and prepare an annual report of the results. The yearly report and overall summary will be published jointly by the cooperating organizations.

The final decision for trial locations will be made by the GCSAA Research Manager, USGA Green Section Director of Research and the Executive Director of NTEP.

GCN: What grasses will be tested?

RS: NTEP will solicit entries for the

trials from sponsoring companies and universities. Trials will be conducted with named cultivars. Experimental lines that will be released in the immediate future (i.e. before the end of the five-year test cycle) may also be entered at the discretion of the sponsor.

These studies will determine the adaptation of grasses for course use. Information from these on-site trials will be of particular value to plant breeders, researchers, extension educators, industry representatives, USGA agronomists, superintendents and architects.

GCN: What do you see as the cutting-edge characteristics of the new bentgrasses and Bermudagrasses that will be coming to the market?

RS: I'm impressed with the efforts to improve creeping bentgrass and

RELATED STORY PAGE 30

Bermudagrass. Plant breeders have emphasized improving heat tolerance, low mowing performance, and putting quality in creeping bentgrass. They have made marked improvements in this regard. The real improvement that stands out is the improved putting quality. Many new cultivars seem to offer a more uniform putting surface than cultivars like Penncross. I am concerned that as improvements are made we don't lose sight of the need for total agronomic performance, such as disease resistance, low temperature performance, seed production, etc. We need more testing to ensure proper management of these new cultivars, as well.

The primary improvement with Bermudagrass has been in the areas of low temperature tolerance. Plant breeders are really interested in making Bermudagrass a more consistent performer in the transition zone. We are probably in the early stages of this development. We will see considerable improvement as future generations are released. We really need some improved types that perform well as fairway and tee grasses for the transition zone.

We will also see renewed interest by plant breeders to improve Bermudagrasses for greens performance in the South. We can only push creeping bentgrass so far in its adaptation to Southern climates. We really need Bermudagrasses with excellent putting quality to fill this need.



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Dr. Shearman updates status of buffalograss development

By PETER BLAIS

Dr. Robert Shearman has closely followed the work on buffalograss conducted by fellow University of Nebraska researcher Dr. Terry Riordan.

Following is Shearman's analysis of buffalograss' status as a golf course turf and its future.

"In 1984, Dr. Riordan and Dr. Ed Kinbacher initiated a turfgrass selection and breeding program to improve buffalograss for turfgrass use. Shortly after initiating the program, the USGA supplied grant support to improve buffalograsses for use on golf course turfs. Buffalograss is one of the few turfgrasses that is native to North America. Its characteristics fit some of the primary goals of the USGA Research Program, which were to develop grasses that would require less water and other inputs for course use.

"The buffalograss breeding project has been highly successful. To date, our vegetative cultivars and two-seeded cultivars have been released. The program has also demonstrated that there is a great deal more genetic diversity in buffalograss than was first thought.

"To date, the buffalograsses developed by Dr. Riordan have primarily found their way into home lawn use. We are in the early generations of buffalograss development for turfgrass use and our knowledge of its management requirements are limited.

"The vegetative cultivars are planted from sod or plugs. They have found limited use on golf course roughs, primarily due to

their limited availability, relatively high establishment costs and a general hesitancy to try something new. However, there are courses in Arizona, Colorado, Georgia, Iowa and Nebraska that are using buffalograss in their roughs.

"The seeded cultivars are just reaching the marketplace. I really feel the seeded cultivars will receive more use on courses than the vegetative types, because of their greater ease in handling and somewhat lower establish-

ment costs.

"It's probably good the new buffalograsses haven't been widely used. We still have a lot to learn about their adaptation and use.

"Buffalograsses will definitely play a role in areas of adaptation, where water conservation is an issue. We are really looking at the tip of the iceberg in terms of current buffalograss development for turf use. Current buffalograsses can be compared to the development in perennial

ryegrass or turf-type tall fescues. For years, Linn perennial ryegrass and Kentucky-3 tall fescue were the standards for these species. In three to four generations of cultivar improvement in both perennial ryegrass and tall fescue, we have evolved to high quality turf types that have little resemblance to the original standards (i.e. Linn and Kentucky 31.).

"I think of Texoka as the standard for buffalograss and we have already passed it with the

quality of the cultivars coming from the early generations of this improvement effort. I know that there is considerable genetic variability within buffalograss as a species. I'm confident that we will see continued improvement with future cultivar releases. Dr. Riordan is already putting considerable effort into developing cultivars for golf course tee, fairway and rough use. There are others in industry and at other institutions who will be releasing improved material as well."

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Monty Moncrief Scholarships are awarded to six

MARIETTA, Ga. — Two students from the University of Georgia and four students from Abraham Baldwin Agricultural College have been named recipients of Monty Moncrief Memorial Scholarships.

The Scholarships are sponsored by the Georgia State Golf Foundation with assistance from the Georgia Golf Course Superintendents Association.

Selected from the University of Georgia were Chad Childs of Cairo, Ga., an agronomy-turfgrass management major; and Phil Petit of Woodbine, Ga., a turfgrass management major. Selected from Abraham Baldwin Agricultural College are Clay Kolbie of Pelham, Ga., a golf turf management major; Gene Mullis of Berlin, Ga., a golf turf management major; Micky Eubanks of Milledgeville, Ga., a golf turf management major; and Tripp Turley of Montezuma, Ga., a turfgrass science major.



Northeast

METGCSA ELECTS O'KEEFE

John J. O'Keefe, superintendent at Preakness Hills Country Club in Wayne, N.J., has assumed the presidency of the Metropolitan Golf Course Superintendents Association. A member of the board since 1985 and most recently the Met's

secretary and vice president, O'Keefe has served on the board of the Tri-State Turf Research Foundation the past three years.

NYSTA PLANS EXPO

ROCHESTER, N.Y. — The annual New York State Turfgrass Association's (NYSTA) Turf and Grounds Exposition will be held here Nov. 12-15, keynoted by NBC commentator and former NFL player Paul Maguire. Held by the NYSTA in cooperation with Cornell University, the event will be held in Rochester Riverside Convention Center.

More information is available from NYSTA at P.O. Box 612, Latham, N.Y. 12110; 800-873-TURF.

SUMMER TURF SEMINAR SET

COOPERSTOWN, N.Y. — The New York State Turfgrass Association's (NYSTA) summer seminar on sports turf maintenance, Winning Fields, will be held Sept. 19 at Doubleday Field here. The goal of the program is to address basic and advanced topics, with an emphasis on understanding the fundamental principles of sports turf management.

Topics will include turf preparation, grass selection, fertilization, mowing and watering techniques, seeding high traffic areas, and communicating with coaches and administrator.

Speakers include Dr. Frank S. Rossi, assistant professor and extension turfgrass specialist at Cornell University; Joe Harris of Doubleday Field; Bob Emmons, professor of plant science at SUNY-Cobleskill; Dominic Morales, chairman of the Department of Plant Science at SUNY-Delhi; Jim Hornung of North Americare Park; and John

Liburdi Jr., head groundskeeper of Heritage Park.

To take place from 8 a.m. to 3 p.m., the seminar is sponsored by the New York State Turfgrass Association, Cornell University and the New York State Association for Superintendents of School Buildings and Grounds.

For more information, a complete program with registration and exhibitor information, call NYSTA at 800-873-TURF or write to NYSTA, P.O. Box 612, Latham, N.Y. 12110.

DISANTO RECEIVES SCHOLARSHIP

KING OF PRUSSIA, Pa. — The Pennsylvania Turfgrass Council (PTC) has awarded its 1996 scholarship to Vincent M. DiSanto of Bridgeport, who graduated from Penn State University with a bachelor's degree in geography and a two-year turfgrass certificate. DiSanto has worked at Blue Bell Country Club under Edward May and DuPont Country Club under Keith Snyder. He plans to pursue a turfgrass career in the Philadelphia Metropolitan Area.

Southeast

GEESE PROBLEM? YOU'RE NOT ALONE.

A symposium has been organized to review the status of migratory and resident geese population, current management practices and strategies, and a review of planting design options for prevention and protection against geese.

The seminar will be held Nov. 6, 1996, at the James Haggerty Education Center, Frelinghuysen Arboretum, Morristown, N.J.; and on Nov. 13 at the Grange Hall, Columbus, N.J.

Scheduled speakers include George Hass, of the U.S. Department of Agriculture Fish and Wildlife; Janet Bucknall, USDA Animal Damage Control; Paul Castelli, New Jersey Fish, Game & Wildlife; and Jeff Keller, Habitat by Design.

For more information contact Gail DeFino at 201-379-1100.

GCSAA CERTIFIES SCHLICK

ORLANDO, Fla. — Thomas J. Schlick, superintendent at Marriott Golf corporate headquarters, has been designated a certified golf course superintendent by Golf Course Superintendents Association of America.

Schlick has been superintendent at the course since 1995. As part of the certification process, an on-site inspection of Schlick's golf course operation was conducted by two certified golf course superintendents: Joe Ondo of Winter Pines Golf Club in Winter Park and Dennis Parker of Rio Pinar Country Club in Orlando.



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Montgomery GC volunteers to go effluent route, hails results

By MARK LESLIE

MONTGOMERY, Minn. — While golf courses in some states are being forced to irrigate with effluent, officials at Montgomery Golf & Recreation Club here voluntarily hooked into a wastewater plant and suggest others give it a try.

"This was not only a money-saving program, as we were previously using city water for irrigation, but we have also noticed that it takes less water to obtain the same results," said Club Manager John LaFramboise. "Other courses being built might consider doing the same thing if it is feasible to them. We feel it is in their best interests to investigate the possibility."

"In Arizona, Florida and California [effluent use] is often mandatory," said superintendent Jim Reiter. "But we're the pilot program in Minnesota. Not only does it save money, but I feel the environmental impact is the biggest issue."

"Why should I be taking 247,000 gallons of clean, nice fresh water out of the ground every day, when that could be used better by the people? I'll



Montgomery Golf & Recreation Club superintendent Jim Reiter (left) and Club Manager John LaFramboise stand in front of their effluent-water retaining pond.

just use what they've already used. Think of the savings. That's a lot of water out of our water plain."

"We could drain our [city] water tower in four hours and the city didn't care for that," LaFramboise added of his community of about 4,000 people.

LaFramboise expects a four-year payback on the club's \$22,000 investment in piping, ditching and permits to hook up to the wastewater plant. Other courses could pay

substantially more. Montgomery Golf & Recreation Club is across the street from the effluent plant, needing only to lay 500 to 600 feet of pipe, going under one road and one railroad track.

While annual water costs have run from \$6,000 to \$8,000 a year, Reiter said, "All it costs now is the electricity to run the pump and to have water tests done monthly — \$30 to \$40 a month."

Working with city engineers and the Minnesota Pollution

Control Agency (MPCA), Montgomery Golf & Recreation Club dug two ponds and tied them into a third, existing one, to serve as holding tanks.

The project was completed in July 1995 and, since then, the water is delivered to them on call.

"The whole concept of having water always available takes a lot of stress off a superintendent," Reiter said. "Think of a drought when you can't get water. In 1985 this area went 2-1/2 months without rain."

Reiter believes his turfgrass is living better with effluent than it did with city water.

"The pH is a little high. It runs 7.5 and I prefer 6.5," he said. "But I can take 7.5. If I had to, I could add some acid. But everything's looking great."

"Organisms would be my concern, but the water is chlorinated to kill bacteria and is tested often. If the chlorine injection system went down, the water would be contaminated. But it takes 24 hours just to get through their system. And if it did get to the course, I can isolate it, cap it and chlorinate it to decontami-

nate it."

Meanwhile, Reiter said, the effluent is an improvement on city water because, as it travels to his irrigation ponds, it is "picking up minerals along the way. It's in a holding pond first, and then it travels underground to another pond and through a creek to my final holding pond. So it's doing a lot of movement — through soil and mixing with rainwater — picking up a lot of good things [nutrients]."

"We are concerned about the environment and the conservation of our natural resources," LaFramboise said, "and we feel we have indicated this by going with this program."

In the meantime, the project has helped public relations, with support from the city and its staff as well as the MPCA. "The city was really helpful and they still are," LaFramboise said. And the MPCA is loosening what at first were very restrictive regulations.

"We have to use city water to irrigate our 4th, 6th, 7th and 8th tees and 6th green," Reiter said. "But that will change, too. We have a written OK from the neighbors."

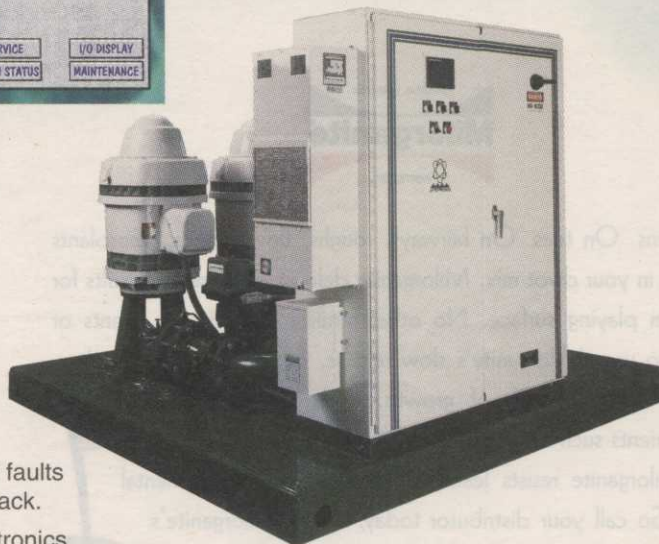
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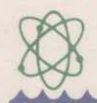


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SyncroFlo develops 'next generation' of VFD Eagle pump stations

Using feedback from superintendents and service technicians, SyncroFlo has developed its next generation of VFD Eagle pump stations.

The most dramatic change is in the operator interface, the Eagle Eye OIT. Custom-labeled screen keys provide one-touch access to the information that every superintendent uses.

Menus make changing or restoring factory settings a snap. Context-sensitive "help" screens guide the inexperienced.

The Alarm History screen is a new

favorite with service technicians. It accesses a list of the last 200 alarm events, along with a snapshot of the conditions at the time.

Even when the station loses power, it logs the time power is lost, not just when power returns.

Popup messages indicate each alarm by name, eliminating any searching. Alarm Light Test, Alarm List and Last Alarm keys also aid in troubleshooting.

Three different screens show totals for gallons pumped, pump-run hours, and pump starts. The Gallons Per Day

screen shows the gallons pumped for each of the last 30 days.

The Status screen shows current conditions and indicates any alarms. The Mode screen indicates which of the four modes the station is in, and whether the VFD is active or not. The Speed Control screen provides manual speed control of the pumps. The Settings key allows the user to change settings or reload the original factory settings.

Also new from SyncroFlo is the Eagle Eye Monitoring Software. Writ-

ten in Visual Basic, it takes full advantage of the Windows interface.

Eagle Eye is available in a 32-bit version for Windows '95 and NT as well as a 16-bit version for Windows 3.1 and Windows for Workgroups. The on-line graphical interface gives operators and service technicians real-time access to important pump-station data. Connection can be made by direct line or through a modem.

Pull-down menus and colorful graphics create an easy-to-use interface environment.

Truttman Legacy's nat'l marketing head

FRESNO, Calif. — Legacy Golf Irrigation has promoted Jon Truttman to the newly created position of national marketing manager. Truttman was formerly regional golf manager for Legacy and has



Jon Truttman

more than 10 years golf irrigation experience. Truttman will oversee and coordinate all of Legacy's marketing activities for its golf irrigation product line. Truttman will

also manage four new regional managers who have recently joined the Legacy team: Jeff Bine of St. Louis, Dominic Criscenti of Atlanta, Steve Carter of Denver and Thomas Franco of California. These regional managers will work closely with golf course architects, contractors and superintendents and will also provide specification support and market analysis.

Aquatrols unveils Infiltrx soil penetrant

SANDY, Utah — Aquatrols has introduced a new soil surfactant — Infiltrx soil penetrant — to be applied through irrigation systems.

Aquatrols said Infiltrx improves penetration and infiltration of water through thatch and into the soil, and enhances turf quality, providing better aeration and drainage.

More information is available from Aquatrols International Division, 10400 Dimple Dell Rd., Sandy, UT 84092; 801-942-2327.

Berkeley offers new submersible pumps

Delavan, Wis.—Berkeley Pumps offers two new submersible pumps as part of its turbine line. The new pumps offer both high efficiency and high head per stage.

These new flow series pumps (models 7T-175 and 7T-250) are available in 5 through 50 and 5 through 60 HP. They take advantage of larger diameter wells, which permit the optimum in hydraulic sizing and performance.

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By MARK LESLIE

SAN DIEGO, Calif. — Who knows what biological controls are sitting on the shelves of university researchers, having been discovered but — until now — with no way to be applied?

"There are hundreds of researchers all over the country with great biological-control measures, but they haven't been able to get them out," said Dr. Joe Vargas of Michigan State University, who discovered *Pseudomonas aureofaciens*, a natural broad-spectrum, general-contact fungicide.

"That's true," agreed Dr. Henry Wilkinson of the University of Illinois at Urbana, who has a number of *Pseudomonas* on his own "shelf." "We have *Pseudomonas fluorescens* that controls Take-All Patch and other patch diseases... We have *Pseudomonas* for *Pythium* blight. You can get growth promotion through biologics, or disease suppression..."

The possibilities are endless as scientists look toward the future of biological-control agents to fight diseases and pests.

"Biologics work," Wilkinson said. "We can document them in nature working by themselves. I believe the combination of more effort put into the development and application of natural biologics will bear fruit. But it will be expensive and will probably be driven by mandate and not purely by interest. What I mean is, when they [government agencies] start to take away all the other choices, all the chemicals, then the biologics as a vehicle will become more important."

"Also, the genetics of the plant will be the future. We have only scratched the future on manipulating turf genetics."

Supply of biologicals unlimited?

At this time, Vargas' *P. aureogaceans* is used in two-thirds of the 200 BioJect systems installed in irrigation systems worldwide in the last four years. (Daily application makes them effective, whereas they have little impact if used, say, once a week.)

"A lot of scientists have organisms they have identified and played with, but they had nowhere to go with them to develop as commercial products. We say, 'This is a great opportunity, a rich opportunity to find these organisms that have been sitting on the shelf.'"

"Who knows what's sitting out there in labs? We may have something that could 'replace' (and I use that term loosely) fungicides as we know them today."

"There will be better biological-control agents," Vargas said. "Certainly we will be able to make better hardware, come up with better media to grow them in. We're looking for other organisms, ways to get greater numbers [of microbes]. Hopefully, some day we will get even this organism [*P. aureogaceans*] to produce more of the enzyme that controls fungi."

Superintendent Dan Dinelli of North Shore Country Club in Glenview, Ill., is looking forward to release of an organism that has been discovered that suppresses frost, "allowing you to cheat 4, 5, 6 degrees, which can help in new seeding and other things," and added: "Researchers are looking into organisms that can fix atmospheric nitrogen ... and put it into organic form. When it dies, other organ-

isms break it down, mineralize it and it becomes available to the plant."

While saying "the basic premise that biological controls work is unquestionably true," Wilkinson added the sobering point that "The difficulty comes when we try to manipulate and manage those natural processes to our own advantage. That's where research, trial and error and many of the failures come from."

More research needs to be performed, he said, regarding the growing medium for bacteria; the effects of water and its varying pH, nutrient base, cations, etc.; possible contaminants like the specific irrigation system; and response from various greens according to their type and management.

John Doyle, vice president of product development for BioJect manufacturer EcoSoil Systems, located here, agreed.

"We remain humble, knowing we have a lot of work to do," Doyle said. "We have to continue to enhance the performance of the bacteria. Each bacteria we put through it is going to have some characteristic we need to exploit, whether it produces antibiotics, or steals food from other mechanisms. The system has to be adaptable to accommodate that organism and get it to grow and perform in the fashion we want it to. There will be an ongoing challenge as we discover a new organism to always be able to address the specific character of that organism."

Wilkinson calls it "the farming of the soil."

"Normally, we think of farming as grow-

ing plants in soil," he added. "But another way to look at this is, managing and growing microbes to flourish and be responsive. You're also cultivating and farming the turf. Both in agriculture and in the ornamental industry, farming both the soil and the plant are things we need to coincidentally consider in the future."

Doyle said EcoSoil is re-designing the BioJect system to be "more sophisticated, more flexible, more user-friendly and more compact."

He said it will be:

- Sophisticated as to how it performs its functions to meet the needs of the organism itself, "to exploit the character of the organisms we're trying to fight."



- Flexible because it doesn't have to run the same way every day; the superintendent can be more flexible with his schedule and how it is tied into the system.

- User-friendly in that "we don't want the superintendent to necessarily operate the machine, but we do want him to have the ability to tell the machine what he expects out of it."

"We don't expect the superintendent to be the microbiologist. We want him to be the recipient of this biological product. We have trained service technicians."


- More compact: "It is going down in size dramatically, but the total number of bacterial cells we produce will go up. A lot of scientists have organisms they have identified and played with, but they had nowhere to go with them to develop as commercial products. We say, 'This is a great opportunity, a rich opportunity to find these organisms that have been sitting on the shelf.'"

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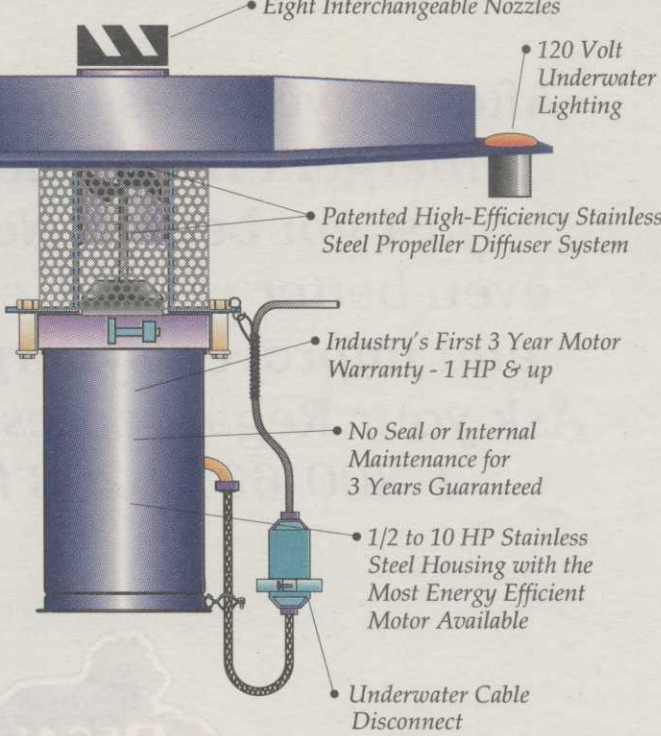
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Biologicals take maintenance to a new level of control

Continued from page 1

every other week, he had little success, he said. "But, when we put it out every other day, we started getting disease control."

"You brew your own cultures in your pump station during the day and inject them when you irrigate at night," vouched Dan Dinelli, superintendent at North Shore Country Club in Glenview, Ill.

Dinelli, who began using BioJect in 1995, said: "We're excited because we saw good results last year, and last year was no party. We had the worst summer in history. It was unbelievable high humidity and heat that Chicago had never experienced. People were dying from the heat in the city, and yet we were expected to maintain greens at 120/1000ths of an inch. It was crazy."

"I've gotten tremendous results with this [BioJect]. This is the wave of the future. It's the only thing saving my greens," said superintendent Ken Schwark whose putting surfaces at Tony Lema Golf Course in Pittsburg, Calif., are built largely on cinder sand.

Adding that salt-laden bay dredgings were used for the soil on part of his course, Schwark said those spots "would not sustain life — weeds or anything. But since I've injected [the irrigation system] the last year-and-a-half, those microbes have transformed that inch-and-a-half layer enough to support life. About 70 percent of those areas are filled in."

Explaining that the BioJect is "a delivery mechanism for beneficial organisms," EcoSoil Vice President of Product Development John Doyle said: "This system is not only set to deliver daily, but going through the irrigation system is an ideal situation. It's a great place for them to live. It delivers them onto the golf course, which minimizes the application cost. And the timing is ideal as well, since most courses apply irrigation at night and that avoids the effects of UV [ultra-violet] light."

Bacteria are the life force of the system. A high bacterial count is "a good strong backbone" for healthy turf, Dinelli said.

In the case of *Pseudomonas*, it secretes a material which inhibits fungal protein syntheses in pathogenic fungi. This holds the fungi in check. Bacteria can also inhibit fungi growth by competing for the same nutrients in the soil, thus weakening the fungi and making it more susceptible to the antibiotics the bacteria secrete.

At 27-hole Tony Lema GC, Schwark said he has "living proof" the BioJect technology works. Because his root zone is cinder sand, it percolates at .22 inches per hour, meaning that it almost doesn't drain at all. Plus, his water from the East Bay is heavy with salt.

"My way to manage greens is totally different," Schwark said. "I can't get rid of the salt and I have to find a way to grow with it. That way has been microbes."

When a water pump connected to the BioJect went down for three months, turf on the non-injected holes turned yellow, he said, while the others lived. Data from a tissue test run on the greens "was absolutely phenomenal."

The test showed greens not being injected with *Pseudomonas* had 1,600 parts

'We're excited because we saw good results last year, and last year was no party. We had the worst summer in history. It was unbelievable high humidity and heat that Chicago had never experienced. People were dying from the heat in the city, and yet we were expected to maintain greens at 120/1000ths of an inch.'

— Dan Dinelli
North Shore CC

per million salt while the injected greens had 125 parts per million salt.

Estimating that more than 200 BioJect units are in the field worldwide, Doyle said EcoSoil asks superintendents to evaluate their units, comparing fungicide-treated versus untreated areas, or modifying their fungicide program, "so we have experiences to draw off in that region."

EcoSoil has found success, he said, through superintendents from the previous year sharing their findings.

"It falls short of a replicated field trial that would be performed at a university, but it does answer some of the questions," Doyle said.

To add to the anecdotal evidence, EcoSoil is working with researchers at the University of Maryland, Michigan State University and the University of California-Riverside.

"But at some point," Doyle added, "you can research this into oblivion versus getting something out there that superintendents can use."

"We know it works," said Dinelli. "This year we're looking at the finances. We want to know what kind of savings we can benefit from this. And we're applying it everywhere."

Vargas said savings will depend on the golf course and the year. "If we're talking dollars and cents, golf courses irrigate tees, greens, fairways... On a square-foot basis it's a pretty cheap way to get treatment. When we used it, for the first time, the banks around the greens didn't die. The roughs won't die if they're sprayed."

"Payback period?" Schwark asked. "How much money is your sanity worth, knowing you can go to bed at night and your greens will be there in the morning? What dollar figure can you put on peace of mind?"

Saying the cost of his system — treating 27 holes with two pumps — is \$15,000 per year, Schwark said it is saving him \$5,000 to \$10,000 a year.

...

One caveat Schwark shared is that some superintendents in California are reporting little impact from their BioJect systems.

"But these people are on choice courses," he said. "They're looking at getting their soils exactly perfect, and to be that close they already have plenty of micro-organisms. My course is on a landfill with a poor growing medium."

Dinelli adds organics and composts to biological mix

By MARK LESLIE

GLENVIEW, N.Y. — Using a multidimensional approach featuring biological-control agents, organic fertilizers and composts, North Shore Country Club superintendent Dan Dinelli hopes to reduce fungicide use by 40 percent this year.

"We're trying to bring several factors together as one to collectively suppress disease," Dinelli said.

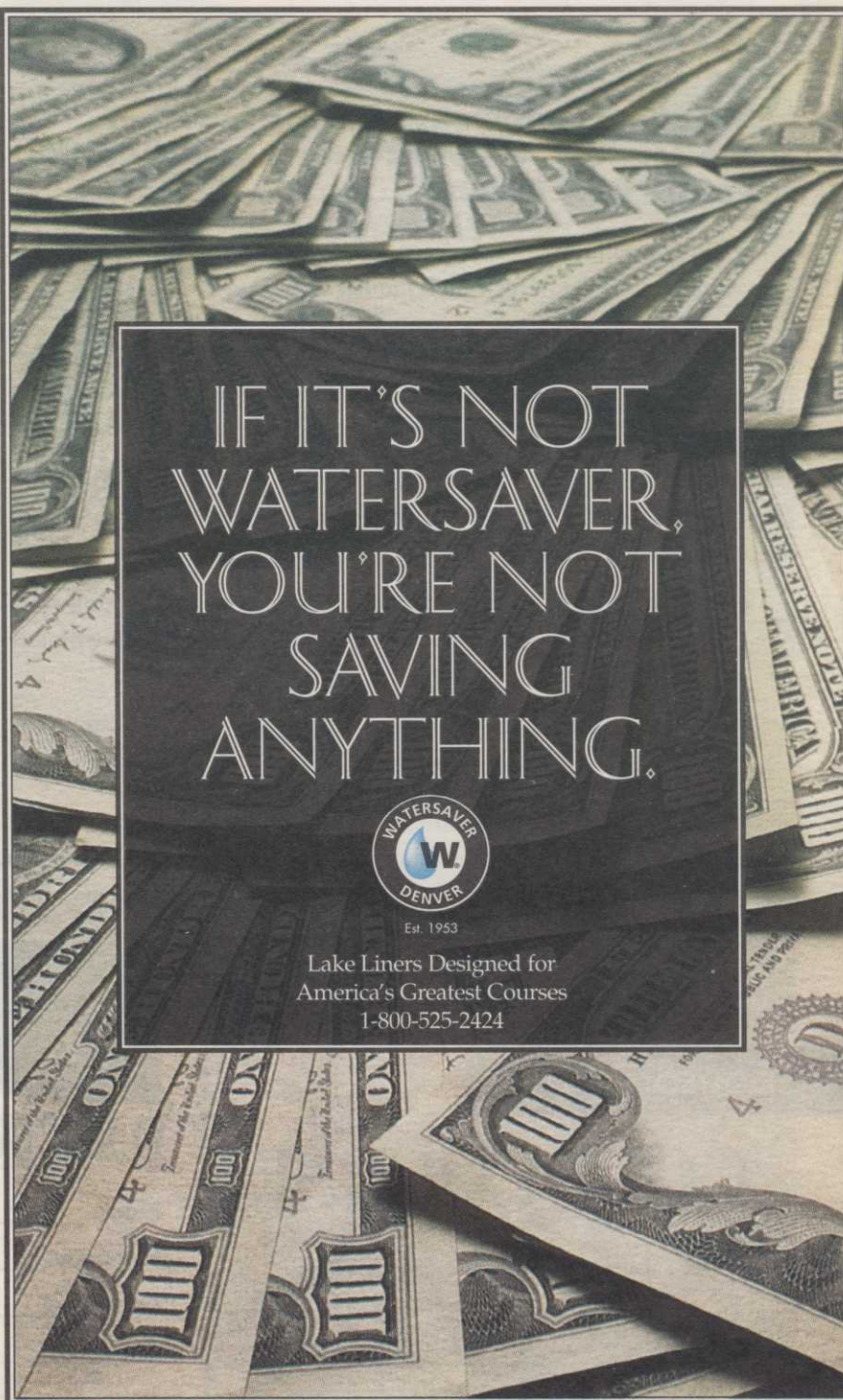
While last year he began using the BioJect system, irrigating his course with the *Pseudomonas aureofaciens* bacteria, has jumped full-fledged into the biological-control arena. Late last year he started using a hybridized strain of *Trichoderma harzianum*, called Bio-Trek 22G, developed by Cornell University Drs. Gary Harman and Eric Nelson. A fungus applied dormant in dry granular form, *Trichoderma harzianum* reportedly establishes itself in the rhizosphere and gives season-long protection against soil-borne fungal pathogens with, in most cases, only two applications.

And that is only half the story,


Dinelli said: "Another thing we're trying this year is using a lot of organic fertilizers that are spiked with microbes," he said, "and we're top dressing fairways with compost. And all this is in hopes that we improve microbial activity, stimulate antagonists in the soil that may already be present, and, in the case of the BioJect and *Trichoderma*, actually implement known antagonists by applying them out in the field."

Each angle, he said, has weaknesses and strengths. But "hopefully, in time, as scientists figure out more and more of this, there will come a day where we'll be able to fine-tune these approaches."

Saying he has no interest in selling the biological-control products, Dinelli added: "I have a big interest in hoping that this direction continues to be explored. Yes, we have a lot more to learn with these pioneers — BioJect and *Trichoderma* — about their shortcomings and how to use them. But, that's all in the growing pains."



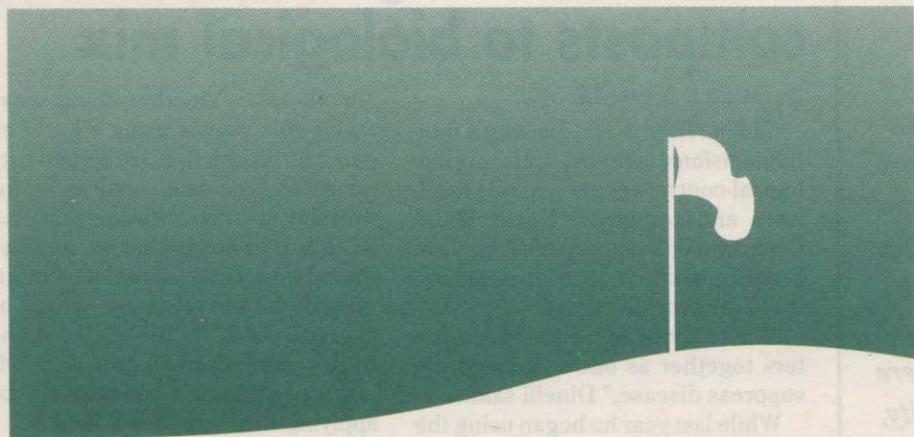
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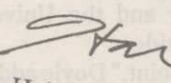
FROM THE DESK OF HAL PHILLIPS

As a reader of *Golf Course News*, it's no secret that public-access golf courses have been the focus of a lot of attention in our pages over the past few years. The reason is simple: Your courses are growing in numbers, your facilities are expanding to meet demand and competition, and your role in the golf industry is taking on added importance.

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Hal Phillips, Editor

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Yes

Marketing track touches all bases at Public Golf Forum

By PETER BLAIS

CHICAGO — With more new courses opening every year, owners and operators must find new and inventive ways to attract golfers to their facilities. That's why marketing is expected to be one of the most popular tracks at the 1996 Public Golf Forum scheduled for Oct. 27-29, here at the Marriott-Lincolnshire Hotel.

Sponsored by *Golf Course News*, this national event will draw owners, managers and superintendents of public-access golf courses seeking better ways to manage their courses from a nationally acclaimed line-up of guest speakers.

Recent news that rounds were finally heading in the right direction — up 5.5 percent in 1995 according to the National Golf Foundation — was welcome news to an industry that has seen demand remain stagnant while the supply of courses has increased dramatically in recent years.

"There hasn't been any material change in rounds played, though we have been adding 2 or 3 percent each year to the course supply," NGF President Dr. Joseph

Beditz said of the pre-1995 statistics.

Courses that have survived and prospered are those that have done the best job of selling their facilities to the golfing public. Among the speakers who will instruct attendees how best to do that are former National Golf Course Owners Association President Vince Alfonso; professional golf photographer Mike Klemme, president of Golfoto Inc.; Mike Petty, president of Communication Links, a public relations firm; Laurence Hirsh, president of Golf Property Analysts and past president of the Society of Golf Appraisers; Dave Richards, president of Golf Marketing Services; Paul Beachnau, executive director of the Gaylord (Mich.) Golf Mecca; and Peter Hill and Rich Katz, chief executive officer and director of sales and marketing, respectively, with Billy Casper Golf Management.

Alfonso, president of Alfonso Creative Golf Enterprises Inc., will kick off the marketing track on the morning of Monday, Oct. 28, with a session titled *Turning on to TV and Radio*. Following Alfonso on the first day schedule are:

- Klemme, whose work has appeared

in numerous national consumer and trade golf publications, will speak on *Using Photography to Sell Your Course*.

- Petty, whose Scottsdale, Ariz., PR firm represents some of the top courses in that part of the country, will give a talk on *Making Public and Community Relations a Marketing Advantage*.

- Hirsh, who has appraised golf courses throughout the United States, will discuss *10 Ways to Upscale Your Course*.

The second day will begin with a general session on customer service. Following lunch and the exhibitors' floor show, the marketing track will resume with:

- Richards, known for his expertise in destination marketing, will discuss *Non-Traditional Marketing Techniques*.

- Beachnau, who oversees the marketing of 21 courses and a \$200,000 promotional budget for Gaylord-area facilities, will give a talk entitled *Group Marketing: More Together Than We Are Alone*.

- Hill and Katz, who together head one of the most-respected management companies in the country, will talk on *Bartering: The Cash Flow Lifesaver*.



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- For a preview of the Maintenance program, turn to **page 39**.
- Architect Dick Nugent has earned national honors for his golf course development atop a Chicago landfill. He'll offer a case study of the project at the Forum. See **page 38**.
- Keith Foster has made a name for himself in the municipal market, taking unorthodox sites and developing award-winning courses. He'll speak on the subject in Chicago. See **page 3**.



The 6th and 7th greens at Jacobsen/Hardie-designed Oregon Golf Club in West Linn, Ore.

Jacobsen to keynote Forum

Continued from page 1

and Torrey Pines in 1995, Jacobsen is one of the PGA Tour's most versatile, affable characters. Not many pros, for example, have competed for the Ryder Cup, authored best-selling books ("Buried Lies") and played lead guitar for Jake Trout and the Flounders, a group that used to perform at PGA Tour events.

Despite his strongest play in years — he finished 7th on the 1995 PGA Tour money list with two victories, two seconds and third — Jacobsen has stepped up design schedule this year. Portland, Ore.-based Jacobsen/Hardie Design has five projects in the works: the 27-hole Cypress Ridge development near San Luis Obispo, Calif.; The Oaks, an 18-hole project under construction near Sacramento; Fox Hills, an 18-hole course in Los Banos, Calif.; an still-to-be named 18-hole project in Mendocino, Calif.; and a 36-hole project in Houston.

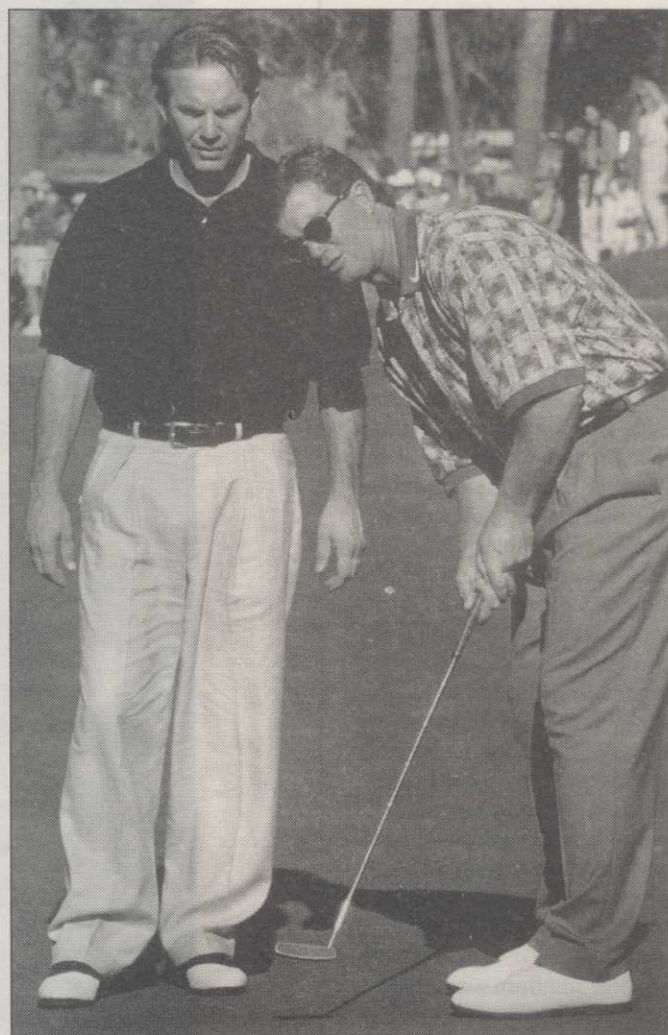
Jacobsen is also responsible for a quartet of finished products now garnering acclaim in the Pacific Northwest: Oregon Golf Club in West Linn, Genoa Lakes in Lake Tahoe, Creekside in Salem, Ore., and Eagle Point in Medford, Ore. Oregon GC has received considerable praise while Genoa Lakes was named 1994's third best public course, according to *Golf Digest*.

Like Genoa Lakes, all Jacobsen/Hardie Design projects — those in planning, under construction and open for play — are public-access.

"We couldn't be happier to have Peter keynote The Public Golf Forum," said *Golf Course News* Publisher Charles von Brecht. "Peter's a star on the rise in the design field and it's gratifying to see he has displayed such a commitment to public-access golf. Further, I can't think of a more witty, interesting speaker in golf today."

Jacobsen's commitment to affordable, accessible golf is also good business, as the U.S. golf course market has been dominated by public-access development since 1990. Of the 2,000-plus courses which have opened for play during this decade, an astounding 80 percent have been either daily-fee, municipal or resort. Public-access facilities now account for more than two-thirds of the nation's 15,000 golf courses.

By sponsoring the Public Golf Forum, *Golf Course News* has also shown its commitment to the increasingly competitive public-access market. With record numbers of daily-fee, municipal and resort courses openings each year, only sophisticated operations that emphasize customer service, manage efficiently, market aggressively and maintain for quality will thrive. The application of these sound business principles to public-access course operations will dominate the four-track education conference at The Public Golf Forum.



JACOBSEN ON THE SILVER SCREEN?

Actor Kevin Costner (left) pays close attention to the putting stroke of Peter Jacobsen during filming of the movie "Tin Cup," which opens at theatres nationwide on Aug. 9. Jacobsen is one of several PGA Tour professionals who helped tutor Costner and also made cameo appearances in the film. The film, which also stars Don Johnson, Renee Russo and Cheech Marin, follows the fortunes of Roy "Tin Cup" McAvoy (Costner), a gifted golfer spinning his wheels at a West Texas driving range. In an attempt to gain professional redemption, not to mention "the girl," McAvoy qualifies for the U.S. Open and embarks on his own "Cinderella story." The film was shot in Houston at Deerwood and Kingwood country clubs, and in Tuscon at Tubac and La Paloma country clubs.

With Marketing, Management, Maintenance and Development programs designed specifically for owners, managers, superintendents and developers of public-access facilities, The

Forum will provide attendees the edge they need.

For information on attending or exhibiting at the Forum, contact the Golf Course News Conference Group at 207-846-0600.

Nugent landfill course earns kudos for environmental achievement

CHICAGO, Ill. — Harborside International Golf Center, which sits on the site of two former city of Chicago landfills, has been awarded top honors in the 1996 Superior Achievement for Excellence in Environmental Engineering competition sponsored by the American Academy of Environmental Engineering (AAEE).

Dick Nugent of Nugent & Associates — which created the two golf courses and 58-acre practice facility on the 456-acre property — will speak during the *Golf Course News*-sponsored Public Golf Forum on reclaiming this type of land. In this case, Nugent's firm changed an unsightly dump into an aesthetic community asset.

Shortly after receiving the national honor for environmental engineering, Harborside was awarded the President's Award for the Illinois Chapter of the American Society of Landscape Architects. The award recognizes Nugent & Associates for outstanding advancement of the golf course design profession.

The AAEE cited Harborside for "the manner in which it met environmental and ecological concerns and contributed to an improved environment, utilized available materials to reverse perceived abuses and achieved significant cost reduction and control in course construction."

Portions of the site were used to dispose of municipal solid waste, incinerator ash, wastewater sludge and construction debris. Nugent's role in designing Harborside was to plan and design it and be an active member of the operations oversight committee for the stand-alone golf facility.

The first nine holes of the Starboard Course and the first 15 holes of the Port Course are built on the former sanitary waste landfill. The remaining three holes of the Port Course and second nine of Starboard — plus the practice ranges and teaching facility — are built on a construction rubble landfill.

Harborside, Nugent said, is "the most challenging and satisfying in my more than 35 years of golf course design. We took a totally flat, featureless piece of ground, shaped it, topped it with a growing medium and created an experience sure to please anyone who loves the game of golf. The result is a challenging golf experience reminiscent of playing the seaside links courses that are typically found in Scotland, England and Ireland."

One of the challenges of construction was the Illinois Environmental Protection Agency requirement that the 225 acres that comprised the former landfill be capped with a two-foot seal of impervious clay to prevent runoff and seepage into ground water. To accomplish this, 200,000 cubic yards of clay were dredged from adjoining Lake Calumet. An added bonus was creation of a boat marina on the property.

In the process, a section of the lake was dammed and 200,000 fish removed from the lake while their habitat was deepened and improved. Special provisions were made to protect and relocate approximately 25,000 fish to open water.

After the lake was drained and dredged, the material was brought directly to the site with conventional earth-moving equipment. This saved an estimated \$1 million over customary "dragline" dredging, dewatering and multiple handling and

represents a pioneering use of wastewater biosolids.

Above the cap, a two-foot layer of sand and topsoil formed a growing medium for turfgrass. Some 3 million cubic yards of earth were moved to shape, cap and promote growth on the course.

Meanwhile, on the Port Course, an area of wetlands on three holes had to be moved. About six acres were created and planted with wetland vegetation.

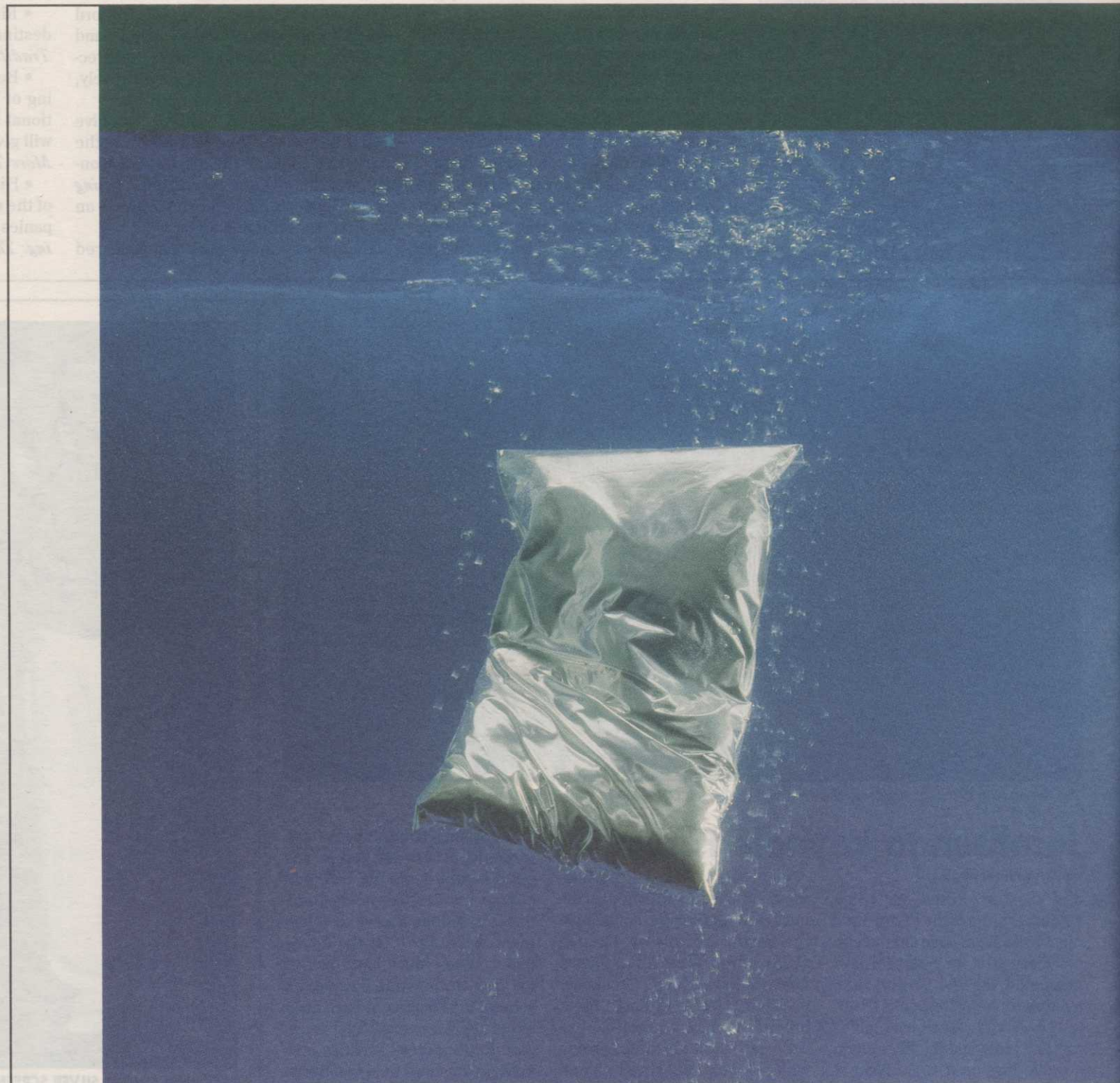
Anthony Ianello, director of the Illinois International Port District, noted that this exten-

sive use of low-cost, locally available materials minimized air pollution and truck traffic. The materials were installed in a complex layering process from the bottom of the subgrade up. Concrete from the former construction rubble landfill was recycled to build roadways, golf cart paths, embankment erosion control and building foundations. Excess material was sold to contractors.

Harborside's water-recovery system, as designed in collaboration by Nugent and project engineer Kudrna & Associates

was also innovative. The course is watered via a special pumping system that draws water from Lake Calumet, while protecting against zebra mussel infestation.

At the same time, a drainage system was installed to keep runoff waters from the sanitary portion of the landfill away from adjacent wetlands and the lake. Ground water is routed to seven collection points and returned through the Chicago Metropolitan Water Reclamation District's sewer system back to a sewer water treatment plant.



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Forum Maintenance Program acknowledges super's business role

By MARK LESLIE

CHICAGO — An increasing percentage of golf course superintendents' time is being consumed by management and business duties. Therefore, the 1996 Public Golf Forum's Maintenance Track will focus on those functions, drawing from such experts as GCSAA President Bruce R. Williams, Pebble Beach Co. Vice President of Grounds Ted Horton and GCSAA Director Tommy Witt.

Public Golf Forum, a national event Oct. 29-29 at the Marriott-

Lincolnshire Hotel here, is sponsored by *Golf Course News* for superintendents, owners and general managers at public-access courses.

In its 1995 Compensation and Benefits Report the Golf Course Superintendents Association of America (GCSAA) said certified superintendents reported 44 percent of their time was devoted to business matters, compared to 51 percent in maintenance matters and 5 percent in other functions. Non-certified superintendents reported spending 35

percent of their time on business matters, 60 percent on maintenance and 4 percent on other duties.

Besides Williams, Horton and Witt, the Maintenance Track speakers will include Chicago Golf District Turfgrass Adviser Dr. Randy Kane; Legends Group Director of Agronomy Terry Buchen; Kevin Ross, director of golf course management at Country Club of the Rockies in Edwards, Colo.; Jerry Lemons, president of GolfLinks; and U.S. Golf Association Green Section

regional Directors Bob Brame of Covington, Ky., and Paul Vermeulin of Mahomet, Okla.

Williams, superintendent at Bob O'Link Golf Club in Highland Park, will speak on What Will Work for You in Staffing: Zone, Team, or a Combination of the Two?

Horton, who is in charge of Pebble Beach Golf Co.'s golf courses and lands on California's Monterey Peninsula, will address Getting the Most Out of Your Employees: Hiring, Firing and Motivating.

Witt, superintendent at Wynstone Golf Club in North Barrington, will speak on Making Your Case, regarding budgets, course improvements and equipment purchases.

Kane, will zero in on The Future of Disease Management Control — from biological-control agents to forecasting and modeling and new products.

Buchen, one of fewer than a dozen Master Greenkeepers in the world and head of agronomy for The Legends Group's eight golf courses, will tell listeners a number of ways to make major savings.

Ross and Lemons will team up to address how to computerize the entire golf maintenance operation — from the office to the shop and from the superintendent to the mechanic. Brame and Vermeulin will present an update on maintenance issues regarding saving greens.

Study: Buying patterns differ at public courses

CHICAGO — Buying patterns at public-access facilities differ from traditional patterns, according to a recent survey conducted by *Golf Course News*. The study further showed that buying patterns at daily-fee, municipal, resort and semi-private courses vary wildly from course to course.

Conducted in anticipation of the Public Golf Forum — scheduled for Oct. 27-29, here at the Marriott Lincolnshire Hotel — the survey analysis of potential Public Golf Forum attendees discovered: At 70 percent of the public-access courses surveyed, more than one person makes the buying decision. The study also showed that 9 of 10 golf products and services are purchased in this way.

"That means to sell to public-access golf facilities, in most cases, vendors need to talk to the manager, owner and superintendent," explained Charles von Brecht, publisher of *Golf Course News*.

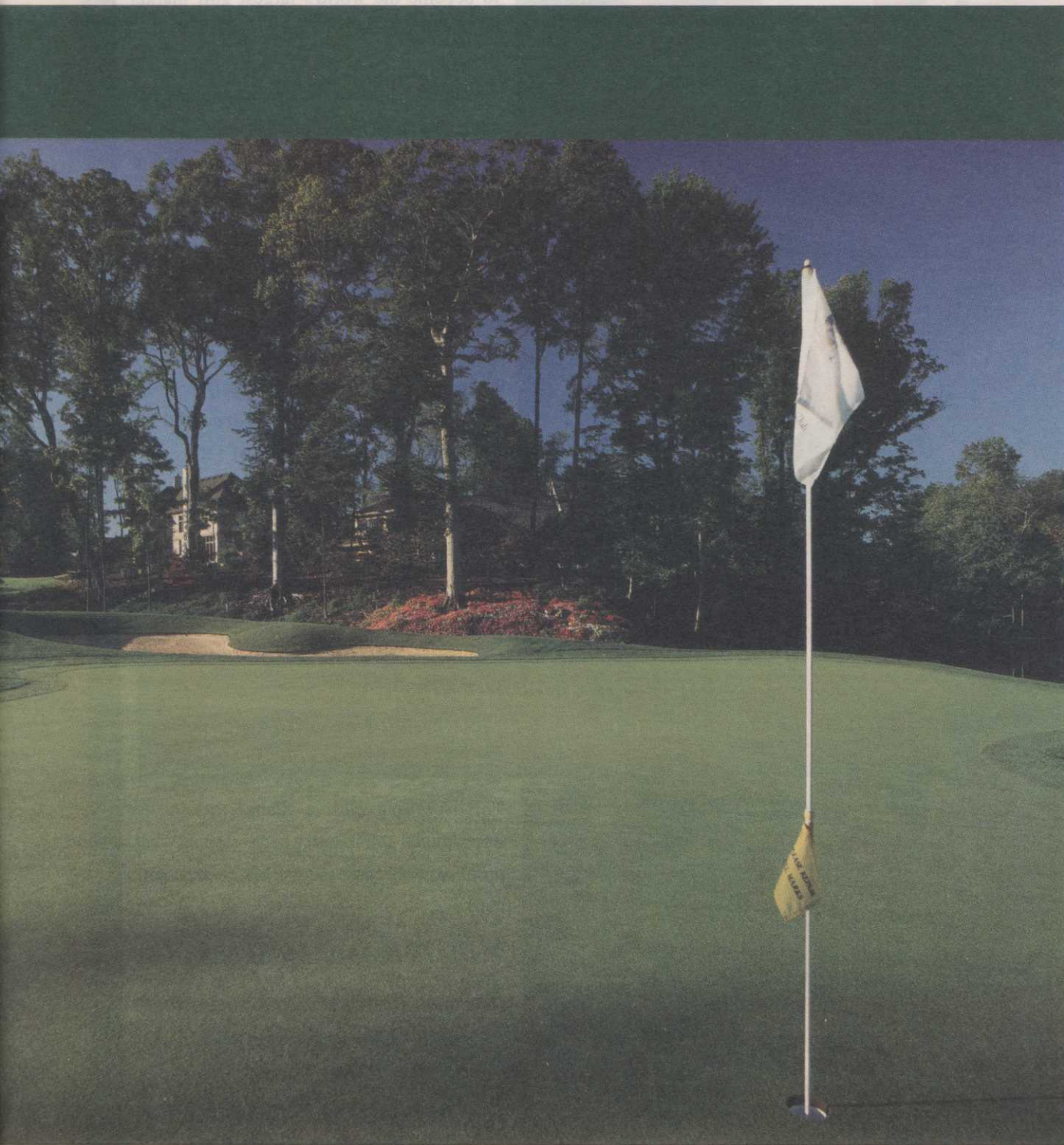
"We have found that public-access courses have a different pattern when it comes to buying decisions. Because the Forum will draw attendees from all points of the buying triangle — superintendents, owners, developers and managers — vendors and suppliers seeking to reach the public-access golf facilities market should plan to exhibit their products and services at the Public Golf Forum."

In fact, more than 75 percent of those surveyed are planning to make a major purchase of products or services in the next 12 months. They will surely be looking to the Public Golf Forum as an important information source.

"That's why Golf Course News

Continued on page 70

August 1996 39



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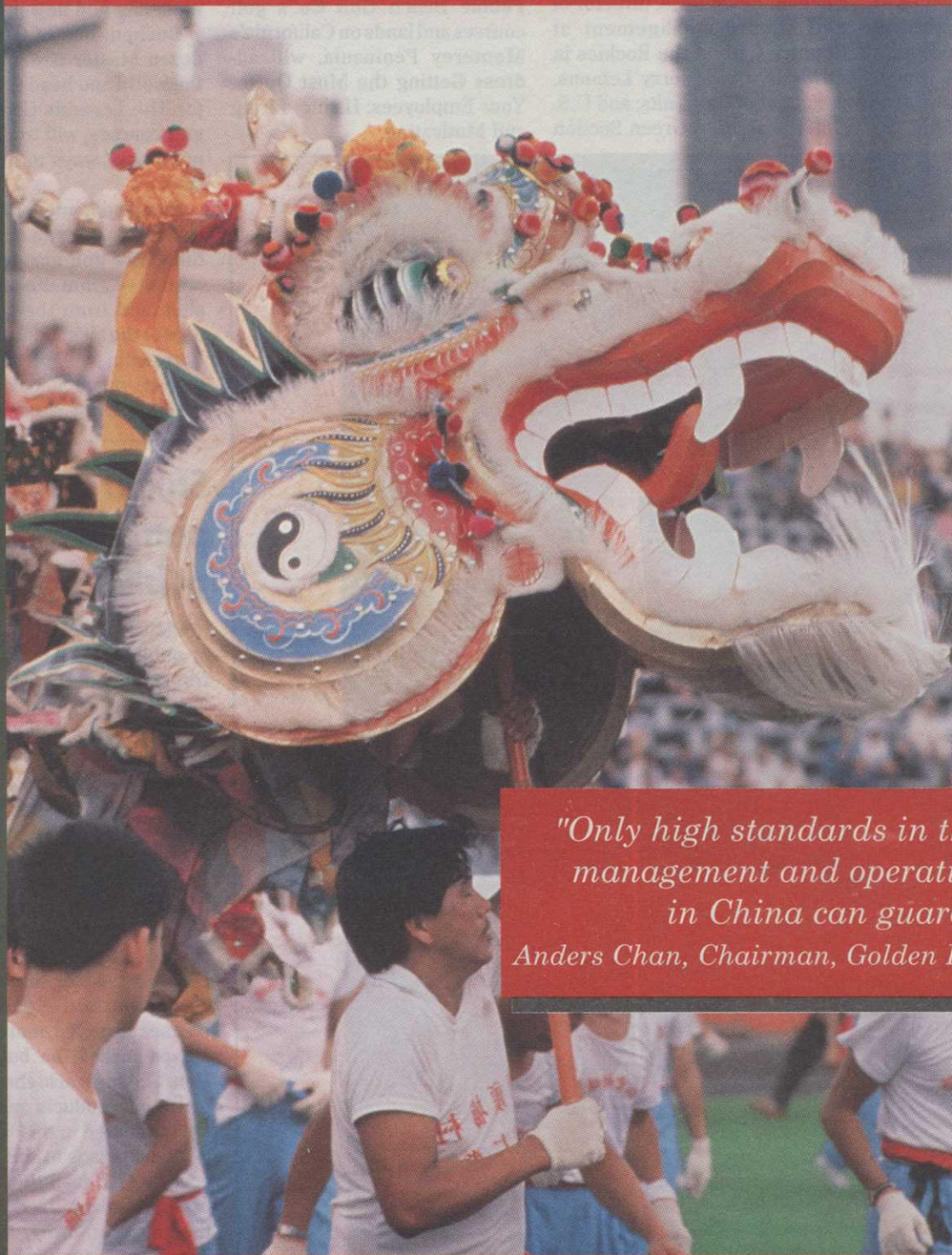
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Anders Chan, Chairman, Golden Lake Golf Club, Nanhai, China.

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It is no wonder names such as *Arnold Palmer, Gary Player, Jack Nicklaus, JMP, Nelson Wright Haworth, Pacific Golf, Robert Trent Jones Jr, Toro*, and an overwhelming majority of the 150 international companies that were represented in the inaugural Hong Kong event, will be exhibiting in Shanghai, 20 - 23 October 1996.

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BRIEFS

**\$4B PROJECT UNDERWAY**

HENDERSON, Nev. — Construction has started on a Jack Nicklaus-designed 18-hole course that is part of a \$4 billion resort and gaming facility planned by Hyatt Hotels Corp. The course will be part of the Monte Largo complex, which will have a Mediterranean-style hotel, gaming casino, 500-room luxury hotel and other amenities, all at the edge of Lake Las Vegas near Henderson in southern Nevada. The golf course is expected to be done by late 1998. Plans call for as many as six resort hotels and four more championship courses at what will be southern Nevada's first lakeside resort development.

LEGISLATURE ORDERS CONSTRUCTION

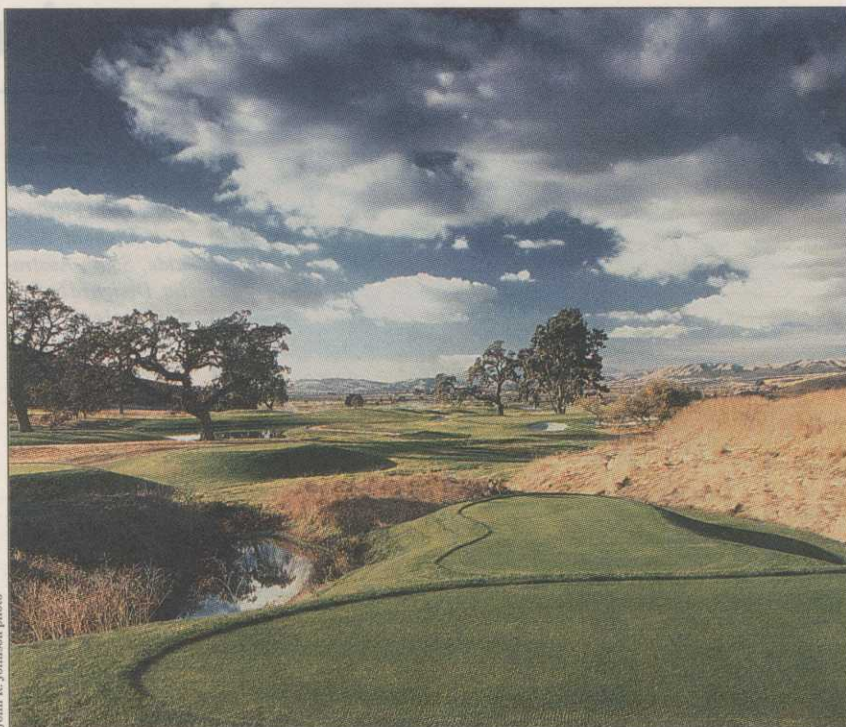
OKLAHOMA CITY, Okla. — The Oklahoma Legislature has ordered the state's Tourism Department to build a new 18-hole public course at Lake Texoma and two nine-hole courses at Langley and Roman Nose State Park. The total cost for the three separate projects is expected to be about \$5.5 million — \$3.4 million for the Lake Texoma project, \$1.3 million for the nine-hole course at Langley, and \$770,000 for the nine-hole expansion at Roman Nose. The Lake Texoma course will be designed by Randy Heckenkemper, and the two others by Tripp Davis.

KAVANAUGH HIRES STERLING

TUCSON, Ariz. — Blake Sterling has joined Kenneth M. Kavanaugh Golf Course Design as a senior designer. He will be responsible for construction documents, specifications, and on-site construction supervision. Sterling, who is from Colorado, worked for Dye Designs for six years as a senior designer. While with Dye, Sterling was involved in the design of more than 80 courses, with over 20 completed. He played number one on his college golf team and holds a B.S. degree in business as well as a Masters in Landscape Architecture from the University of Colorado.

ARCHITECTS RELEASE RFP GUIDE

CHICAGO — Looking to get a better understanding of golf course development? The American Society of Golf Course Architects (ASGCA) has just published a new free planning guide for golf course development called "Request for Proposal for Golf Course Architectural Services." The comprehensive document is designed to help developers address key elements of a golf course development project, including general notice, scope of services, owner's responsibilities, submittal requirements and the selection process.



The 6th hole at San Juan Oaks Golf Club in San Juan Batista, Calif., a Gene Bates design scheduled to open this month.

Bates coupled with success in design field

Gene Bates, 48, left the mining construction industry in the mid-1970s to enter the course design field with his father-in-law, architect Ron Kirby, a partner in Kirby/Player & Associates design. Bates moved in 1983 to Jack Nicklaus Design, where he rose to vice president of the design and construction services division, before opening Gene Bates Design in 1988. He has designed courses worldwide, including Vermont's first municipal course, Green Mountain National, which was scheduled to open in July. Bates' office is in Palm Beach Gardens, Fla., where he lives with wife Faye and their two children, Denise, 15, and David, 14.

Golf Course News: You've worked with many widely known Tour pros and golf architects. Can you briefly



Gene Bates (right) and Fred Couples talk over the direction of a golf hole under construction.

QA
&A

describe what most impressed you about Ron Kirby? Bob Cupp? Johnny Miller? Jack Nicklaus?

Gene Bates: I was Ron Kirby's site coordinator in the Philippines and South Africa. He taught me how to get a lot done with few resources and little equipment on those jobs.

I was always very impressed with the attention to detail Bob Cupp put into his plans and how professionally he dealt with clients.

Jack Nicklaus' No. 1 priority was

Continued on page 48

Nelson, Haworth make stateside debut in N. Calif.

HONOLULU, Hawaii — The firm of Nelson & Haworth, Ltd. has been chosen to design The Grizzly — an 18-hole, par-72 championship course near Graeagle in northern California. This commission marks the firm's debut into the U.S. mainland market.

The Grizzly golf course is located in Gold Mountain, seven miles east of Graeagle and 45 minutes northwest of Reno, Nev. The 1,200-acre project is a recreational, 427-homesite community master-planned by Taliesin Architects, the perpetuation of Frank Lloyd Wright's architectural practice.

"We've been looking for just the right project to mark our transition into the mainland U.S. market," said Robin Nelson, chairman of Nelson & Haworth. "This has everything: A great client, spectacular site, and superb location. And we'll be opening our first mainland office in the ... clubhouse."

Ground was broken on The Grizzly in May. Designed as a semi-private course for tourists and residents of Gold Mountain, it is being developed by Dariel, Peggy, Joe and Laurie Garner of Grizzly Golf Inc. They plan to open the first nine holes by the end of 1997, with the second nine to debut in early 1998. In addition to the 18-hole course, The Grizzly will include a practice facility complete with a driving range with target greens, an 18-hole putting course, and a nine-hole executive track — all to be completed in early 1998.

Nelson and Neil Haworth plan to lay the course onto the site's natural contours, leaving the mountain setting unaltered and the natural "hazards" of the environment in play. With the towering, snow-capped Sierra Nevada mountain range as the backdrop, the course will weave around giant boulders, ancient juniper trees, tall pines, and the Feather River. Other natural distractions include deep canyon gorges, mountain meadows, and canyon rims complete with rail trains.

Each hole will offer a choice of five tee locations. The course will be a par-72 and measure over 7,200 yards from the championship tees.

Mark Rathert remakes, beautifies Avondale in Idaho

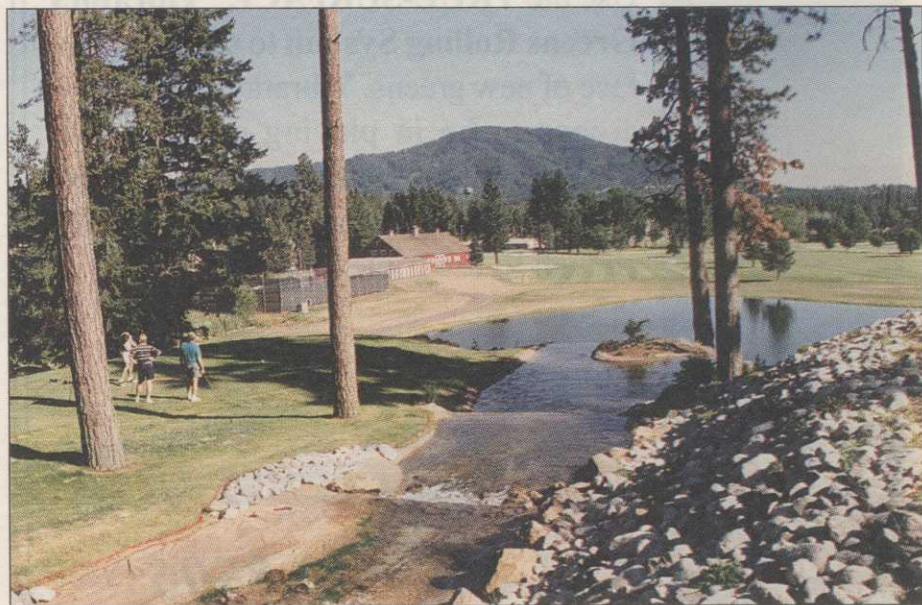
By MARK LESLIE

HAYDEN LAKE, Idaho — A major renovation of Avondale Golf and Tennis Club by course architect Mark Rathert has turned the 30-year-old track into a "must-play," according to the greens committee chairman.

"What Mark did for the beautification of the course is unbelievable," said Keith Coultrap of the privately owned public facility. "We are very, very pleased with the results. It's something special, and I think we'll find that a lot of people who come to north Idaho to golf at Couer d'Alene Resort will want to find their way to Avondale for another round."

Anxious to reopen the course, Avondale's greens committee decided to sod most of it after a renovation that included nine new greens, all new tees, 42 "replaced" bunkers and three lakes.

Continued on page 47



A new creek and waterfall provide "surround-sound" to golfers at the 10th tee at Avondale CC.

Construction continues at a strong pace in region

SAIPAN — The routing plan has been completed and the developer is clearing up some final details, allowing construction to begin on a new, 36-hole development here at Objan Beach.

Jay Morrish has designed the first 18 holes for developer Haas and Haynie Inc. of San Francisco.

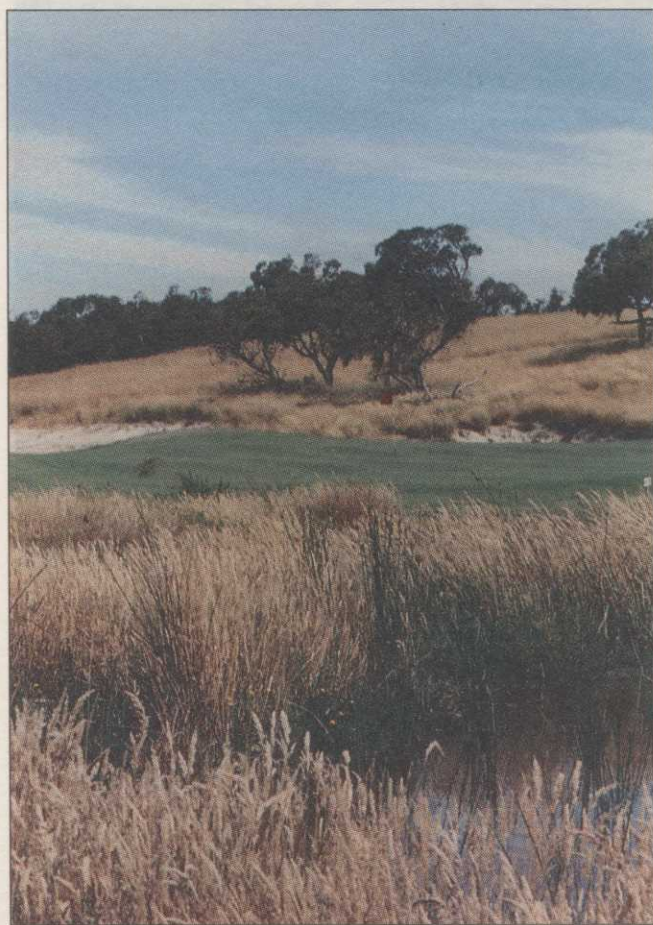
Located on the southern part of the island, the site includes four miles of oceanfront and 200-foot cliffs, according to son Carter Morrish.

Morrish has worked with Haas and Haynie on several other projects including recently completed Saddle Creek in Stockton, Calif. Haas and Haynie has also developed two other U.S. courses, Genoa Lakes in Reno, Nev., and Estancia in Scottsdale, Ariz.

FUZHOU, China — The first nine holes here at Trans Strait Golf Club will open this fall or early in 1997, according to Robert Trent Jones II International which designed the course.

Developed by Liu and Associates of Taiwan, Trans Strait stretches over 185 acres of wind-swept dunes and trees, and boasts four holes sitting atop high bluffs overlooking the Taiwan Strait.

A resort course, it will offer individual memberships as well as tee times to area hotel guests, according to Doug



NATURAL LOOK

Native grasses and scrub flora frame the fairways at Fleurieu Golf Club in Adelaide, South Australia. Designed by Golf Strategies, Inc., Fleurieu GC is one of several courses the Adelaide-based firm has under construction. Fleurieu GC plans a soft opening of this nine around the end of the year. The first nine is in play and has drawn favorable responses from golfers, according to Golf Strategies' Neil Crafter. Meanwhile, Golf Strategies is also designing projects in Sarawak and Seremban, Malaysia.



Ingram, RTJII's vice president of design and construction activities. Once the first holes are in play, the second nine will open six months later, Ingram said.

The site is "unbelievable — like Pebble Beach but with intermittent stands of trees," said RTJII's Steve Schroeder.

"With as much wind as they get, a lot of design elements had to be done — wider landing areas, more open-entry greens and slightly larger putting surfaces," Ingram said. "You get a real variety of views: the sea, a large nearby lake and back up into the land through stands of trees."

JAKARTA, Indonesia — What is being touted as the first public signature course in Indonesia has opened for play. Green fees at Desmond Muirhead-designed Imperial Klub Golf are Rp130,000 for 18 holes.

"Imperial Klub Golf is a unique golf course designed to cater to an increasing number of golfers who are not always in a position to afford expensive member-

Continued on next page

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Development flourishing

Continued from previous page

ship entrance fees but want to have access to a privileged club environment, if only for a day," said club General Manager Anthony Cottan of Hong Kong-based CCA International Inc., the course operator.

Located in the heart of Lippo Karawaci, a vast residential, commercial and recreational complex, Imperial Klub Golf also features a restaurant, pro shop, massage rooms, driving range and CCA Golf Academy. Individual and group lessons, as well as tournament and corporate day packages are available.

"We are very proud to pioneer the first public course in Indonesia and plan to take this concept to other countries around the region where golf is equally popular, but not readily available to the golfing public," said Dieter Klostermann, chairman of CCA Group.

...

BINTAN ISLAND, Indonesia — Construction is well underway here at the Gary Player-designed Straits KMP Resort. The opening nine of this 36-hole project should be open for play by mid-1997, according to Phil Jacobs of Gary Player Design Co.

Construction at Straits KMP includes several innovations. Terracottem, a mixture of hydro-absorbent polymers, mineral fertilizers, organic fertilizers and growth stimulators, will be incorporated into the fairway growing medium.

Zoysia El Toro is being planted on the fairways, roughs and tees, with Tifdwarf on the putting surfaces.

Elsewhere in Asia-Pacific, Player expects a late-1996 opening for the 18-hole Manna Country Club in Japan. In The Philippines, the player designed Baguio project — developed by mega-developer Sta. Lucia Realty — has entered the final phase permitting. Player design is now finalizing detailed drawings.

Finally, in Shenzhen, China, more than 650 members attended the recent grand opening at Sand River Golf Club here, despite heavy rains leading to further settling on the primarily reclaimed land.

The opening of Phase I includes the inland nine holes, lighted for night golf, and the Gary Player golf academy and instructional areas. Sand River now claims to be the only club in China with night golf, though at least two others are working on it.

The project has improved its dredge-and-fill operations significantly, speeding progress on the ocean 18. Shaping is well underway.

GOLF COURSE NEWS

Hurdzan breaks into Aussie market

By MARK LESLIE

FORSTER/TUNCURRY, Australia — Tallwoods Golf Club, a 600-acre community featuring a Michael Hurdzan-designed 18-hole golf course, is being built in this popular resort area.

Site clearing is underway and course construction began in earnest Aug. 1 at this spot some 210 miles up the coast from Sydney, according to David Whelchel, a senior designer with The Hurdzan Design Group in Columbus, Ohio, U.S.A.

Tallwoods Proprietary Ltd., led by Dubbo developer Bill Richardson and a silent partner, foresees the project as second-home and retirement community. The course will be private to community residents, but will offer tee times to visitors, such as from hotels at the neighboring towns about 20 kilometers away.

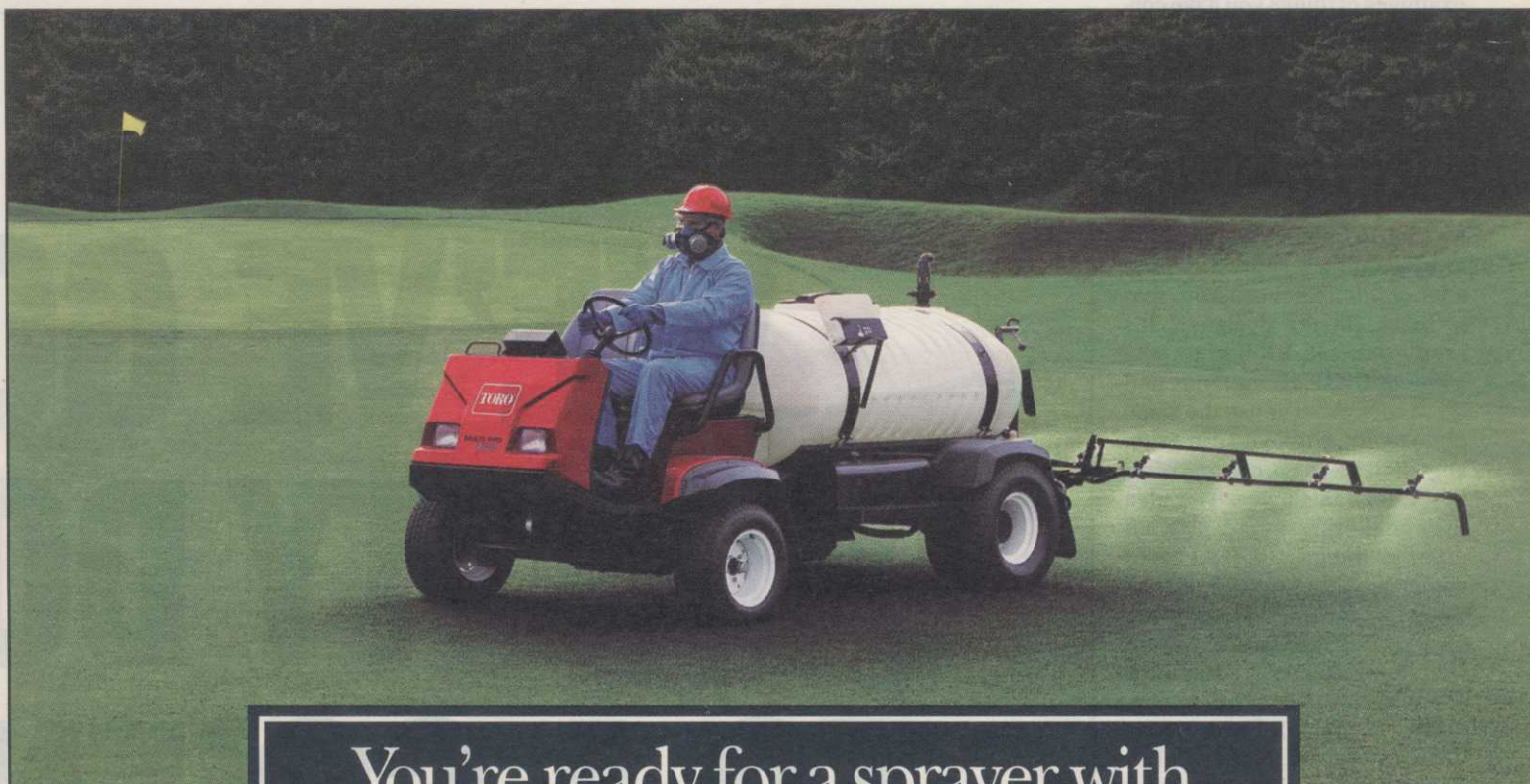
The site is just 2 kilometers from the ocean, spread over hilly topography, Whelchel said. "The climate is wonderful, and it's a great property," he said, "hills and valleys and with 100-foot-high and higher

eucalyptus trees. We'll be playing up valleys, with several lakes on the golf course.

"We're working around some interesting native vegetation. It contains some very, very nice, small rain forest-type areas, and we'll play around them and highlight them within the course."

The 6,100-meter, par-72 track will be "retirement-person oriented," Whelchel said. "We want golfers to have fun. We don't want to beat them up. It will be challenging from the back tees and friendly from the middle tees."

Because Tallwoods Proprietary is the general contractor, the course will cost just Australian\$3 million, he added.



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CIRCLE #133

Jack Nicklaus and Pete Dye revisited

A wide-ranging question & answer session with 2 legends

PINEHURST, N.C. — There has been a hue and cry for more of the conversation Jack Nicklaus and Pete Dye had with their audience here during the 50th anniversary meeting of the American Society of Golf Course Architects. So we defer:

Question from Jeffrey Brauer: Can you give us any examples of things you have copied exactly [from Pinehurst #2], or is it more of a general influence that you have alluded to?

Nicklaus: I don't think I have ever copied a hole anywhere. I've copied concepts. And obviously, since I grew up on Sciota [Country Club in Columbus, Ohio] and like Pinehurst very much, I think a lot of the influences from that is there [in my designs]. It's pretty difficult, I think, to take some of these green areas and try to copy them or use the same philosophy. Sure, you can probably get it done. So, conceptwise, yes. Shot values, yes. The idea that bunkering might play off different things, yes. But I never copied anything exactly. I don't think I've even copied any of my own stuff. Every green you do should be original. It may turn out to be close, but never a copy.

Dye (laughing): I copy everything, I guess. No, not really. The thing that influenced me most about Mr. Ross [Pinehurst No. 2 architect Donald] was his routing. Typical of Pinehurst, he would start the first hole and dogleg or angle it either slightly left or right; and the next hole was angled the opposite direction; then he's absolutely just boggle your mind by making one dead straight ahead, like the 4th at Pinehurst No. 2.

When you're on rock base or clay, it's pretty hard to create something like Pinehurst No. 2, which is one of the exceptional areas in golf in our country. It is characteristic of areas you find in the British Isles, or to some extent on Long Island.

There is not enough drain tile in the world to copy the greens at Pinehurst. I'd like to have a sand pile like that some day.

Audience question: What should be done about the severity of the greens and the low scores in tournaments?

Dye: The greens are severe enough... When they were built in 1930 and were ryegrass and common Bermudagrass, they putted entirely different then they will now. Plus they have been crowned so over the years, it makes that target area pretty tight. They'll stand up, I'm sure... because they [pros] can hit it a long way, but they can't chip or putt, that's for sure.

Nicklaus: I'm not so sure about that, Pete. I don't think it's important whether the Open score is 99, or low or not... I think it's time we either change golf balls or stop

worrying about the score. We all face the problem of building a golf course and five years from now the golf balls will go 20 yards further and your course is obsolete. The golf ball is making the golf course semi-obsolete. And it shouldn't be. Can you imagine taking that golf ball down 5 percent and playing Pinehurst No. 2? It's a wonderful golf course. The only problem here, to try to get high scores in the Open, is that you don't have any water hazards. You grow rough, and I

don't think Pinehurst should have rough. It wasn't meant to have it. You have fairway, then you have scrub, then the ball runs off into the trees and that's what makes it difficult. Trees are not part of the strategy of the golf course...

Question from Tom Fazio: Back in the 1950s or early '60s were golfers discussing the quality or caliber of Pinehurst, and other golf courses?

Dye: Coming to Pinehurst No. 2 during and right after the war, this was a golf mecca, and that No.

2 was mentioned as a great golf course in the same tone Pine Valley was mentioned. And so was Baltusrol, Winged Foot and others... So, yes, in the eyes of golfers, Pinehurst was recognized as a great golf mecca and No. 2 was talked about even among the pros and avid golfers... They didn't talk about Mr. Ross like they do today.

Nicklaus: I think Pete may look at it more that way. I don't know. When I started playing, we looked at maybe a dozen as being the golf courses — Pinehurst, Augusta, Sciota, Pine Valley... Since that time, you all [architects] have built so many good golf courses [that]

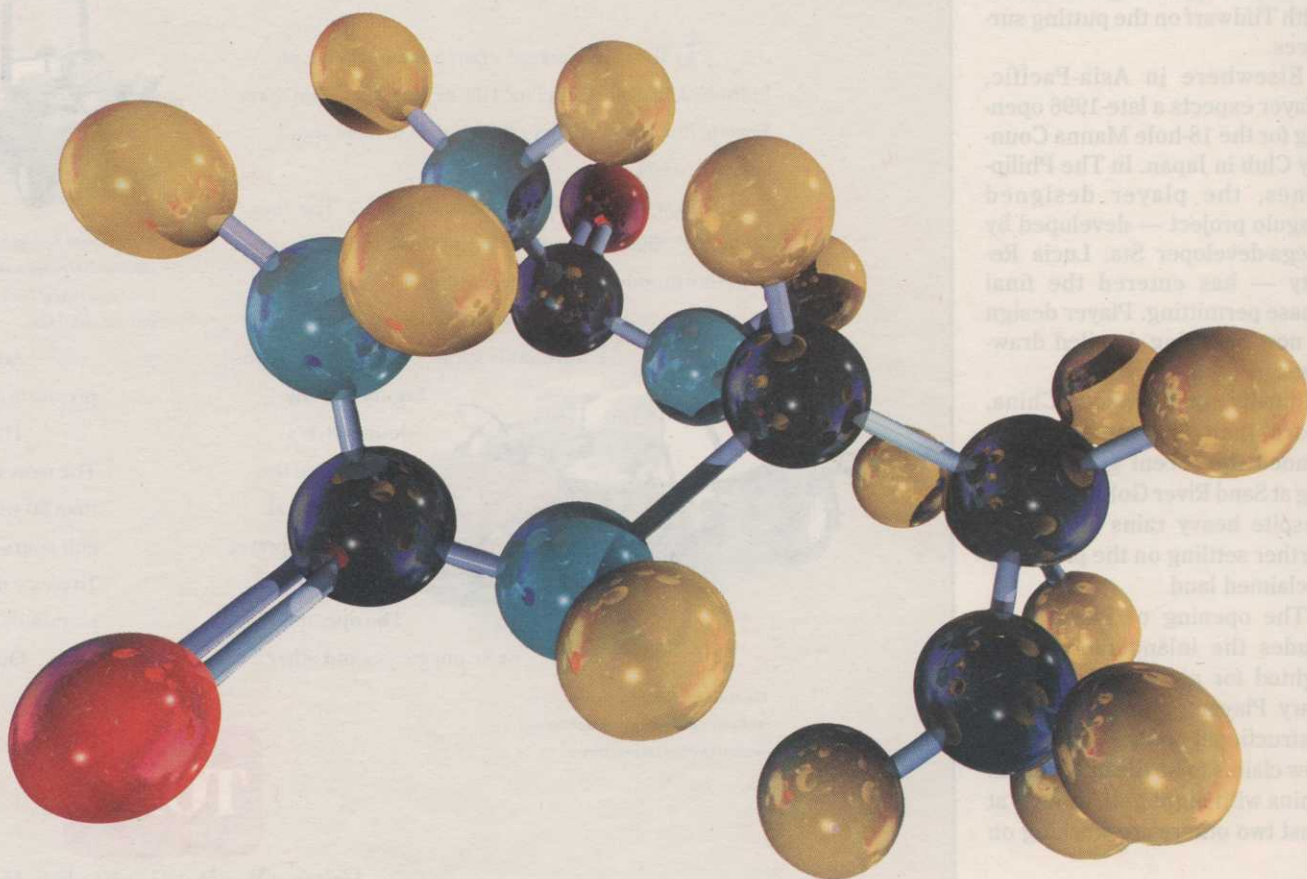
it's very difficult to try to figure out [which are best]. Back in the '60s travel was not there, television was not there, publicity for these places was not there. Back then you made a trip and said, 'I traveled to Pinehurst once and got to play No. 2.' Today it's 'I made a trip and played the top 100.'

Audience question: Do Tour players impact course designs?

Nicklaus: Yes, to a large degree... When a golf course hosts a tournament, it doesn't do the owner any good to have the pros bellyaching about this and that.

Continued on next page

WE'VE GOT QUALITY DOWN TO A SCIENCE.



Nicklaus & Dye

Continued from previous page

You try to give them a good test of golf, and how they feel about the course depends on how they shot that day. If they shot 75 it was the worst golf course they ever saw, and if they shot 65, 'My, what a wonderful trip.'

We can all work hard doing a good golf course today that is acceptable from the tournament standpoint and from the average golfer's standpoint. My feeling is that Augusta National has always been a wonderful members' golf course. I got in real trouble one

time when I called Royal Melbourne a wonderful members' golf course. They didn't like that down there at all. But what I meant by it is, it's a golf course that the members can play on a daily basis and all you have to do is move the tees back and hide the pins and you have a championship golf course. I think that's what we've tried to be able to do. We have so many new people coming into the game.

And yet you don't want pros playing it and bellyaching. I think they do influence [design] — at least the top 30 because those are the ones the press talks to.

Question from Robert Trent Jones Jr.: Jack, you're concerned about the length of the golf ball. Aren't there really a lot of variables taken into account [to make] an older course really show itself?

Nicklaus: It's tough. I feel the USGA, by and large, has done a pretty darn good job. I was disappointed at Pebble Beach the last time. I worked a couple of years with them trying to get the golf course where we wanted it. They came in and made big deep ryegrass bunkers in straight lines, and I didn't think that was the character of Pebble Beach. I hope they don't do the same thing here

at Pinehurst. Again, I don't think score is important. If you want to protect it, protect it with equipment, not with the golf course. Don't ruin the golf course. I like fast greens, hard greens. I think that's the only way, if you wish to change a golf course. Often, you can make the rough a little higher and the greens a little quicker, and that's all you have to do for a tournament.

Every single year at Muirfield our greens go up to 13 [Stimp meter reading] for the tournament. One year it was at 17 and I said to [Nicklaus agronomist] Ed Etchells: 'Ed, this is

insane.' I shot a 79 that day and wasn't real happy.

Our greens do not have that much pitch at Muirfield. If you do have a lot of pitch like these [at Pinehurst] you can't go to 12. You take Pinehurst greens to 9, 9-1/2 and you have plenty of speed. Put speed at Cypress Point and you don't have any pin placements.

I think you have to stay with the character of the golf course.

Question from Gary Panks: We've all seen golf courses that, under perfect weather conditions, are very difficult to play. Are we, as architects, thinking enough about [the common player]?

Nicklaus: I feel Pebble Beach is the perfect example of your question. If you get a golf course that won't yield under perfect conditions, then I don't think you have a very good golf course. Pebble Beach with no wind is not a very difficult golf course. But you put Pebble Beach on the ocean with some weather and you've got a tough golf course. I see that same situation right here at Pinehurst No. 2. It's not a particularly tough course without much wind. But you get it ... coming out of winter with hard turf and wind, and it is a tough place to play.

You have to design to the [weather] conditions.

Dye: Not many people play Augusta National in July. I don't think Augusta would even be mentioned if you had a tournament there in July. The wind makes it a great golf course when they do play the tournament and a great course with all the vegetation. I think wind is the greatest ally any designer has. Yes, you have to account for normal wind conditions in your design.

Audience question: How about controlling the game through the equipment?

Nicklaus: I think we're beyond that. The only thing that we can control is the golf ball. I think the ball designed for the average golfer, giving him the benefits if he doesn't have the skills to play better, is fine. But in the showcase of golf, if we drop the golf ball that 5 percent... What's wrong with a 6,700-yard golf course? That's what you've got if you take 5 percent from 7,000 yards.

The kids will say you're not playing the same golf ball. But they're not playing the same golf ball anyway. Ninety-nine percent of the people who play golf play a surlyn ball. The 1 percent who play a balata ball, that's tournament golf.

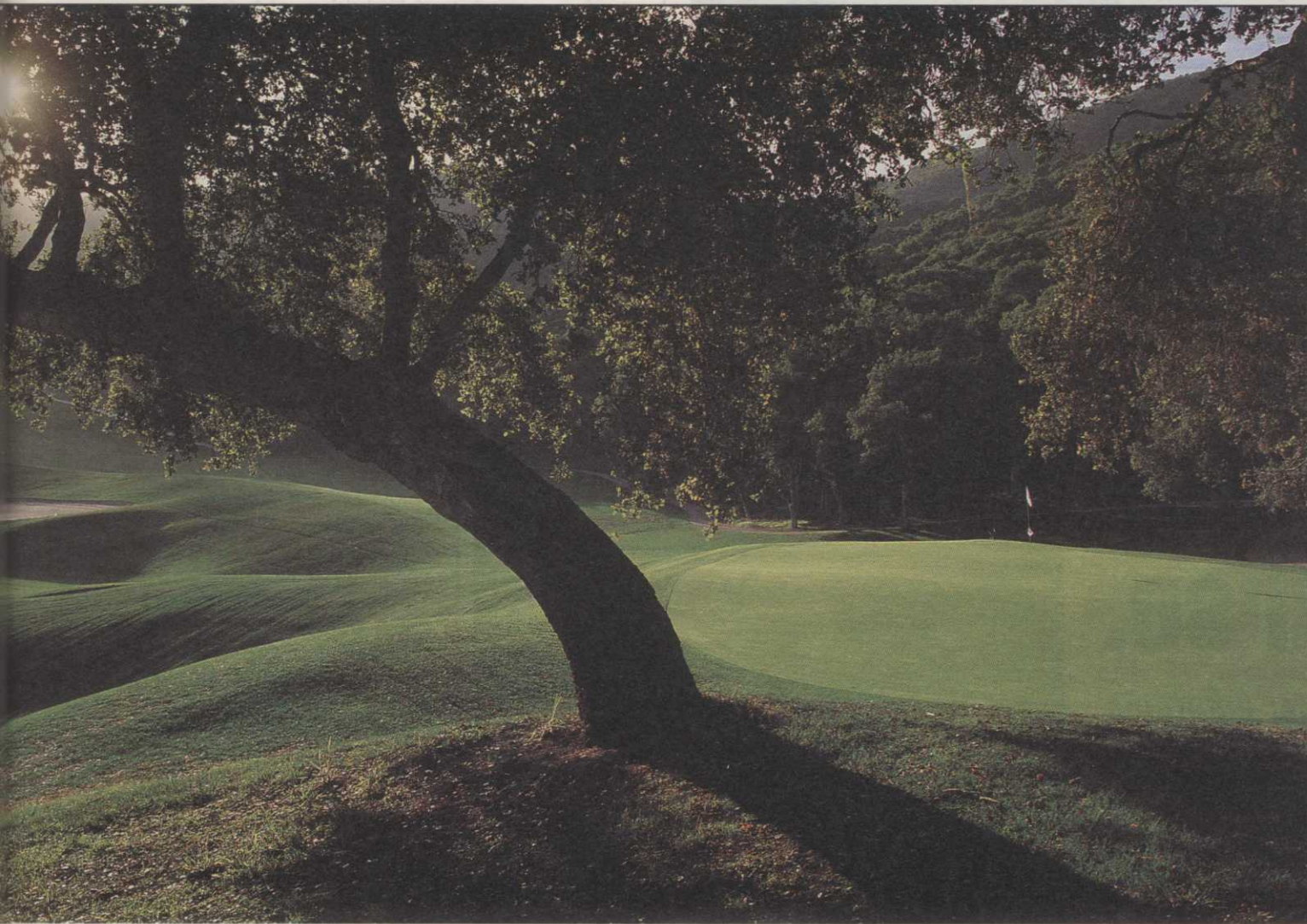
Leave the equipment alone... There is no reason why we can't design a 7,000-yard golf course and play it at 6,600. You can get a lot of variety within that course.

Dye: Do everything possible for the amateurs and just kill the professionals.

Question from Mike Hurdzan: What about a competition ball that the USGA issues?

Nicklaus: That's basically what I'm saying. I don't think the manufacturers would stand for issuing a particular ball to play. But manufacturers used to stand on the quality of the way they made the golf ball, not the structure of it.

The USGA could set the parameters for the balls...



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SNAGGED AT THE SNAGS

The "Snags," one of two par-5 holes on the new back nine of The Sea Ranch Golf Links, shows the beauty of the course. The 6,800-yard links-style layout opened the new nine this summer, offering ocean views from nearly every hole. Designed by Robert Muir Graves in 1964, Sea Ranch was originally conceptualized as an 18-hole course. The new nine is an extension of the original, using the natural terrain and wetland areas — similar to the original links courses.



DEVELOPMENT

Walker park track opens in Ga.

WAYCROSS, Ga. — Laura Walker Golf Course at Laura S. Walker State Park here officially opened March 2. Designed by Burns Golf Design of Fernandina Beach, Fla., the track was built by Niebur Golf of Colorado Springs, Colo.

The par-72 course has four sets of tees ranging from 4,800 to 6,715 yards. Three lakes and a manmade stream come into play, but there is only one short forced carry over the stream. The course features several grass bunkers, but only about 30 sand bunkers, although some of these are huge waste areas.

The course is mainly cut through a pine plantation, although several holes will play through large oaks and other hardwoods. Several out-of-play areas feature lovegrass or native grasses.

The site was relatively flat, but roughly 300,000 cubic yards of dirt were moved to create elevation changes of up to 20 feet. Despite a relatively modest construction cost of just under \$2.5 million, the course features USGA-specification greens, a variety of grasses, substantial irrigation and drainage systems, and continuous concrete cart paths.

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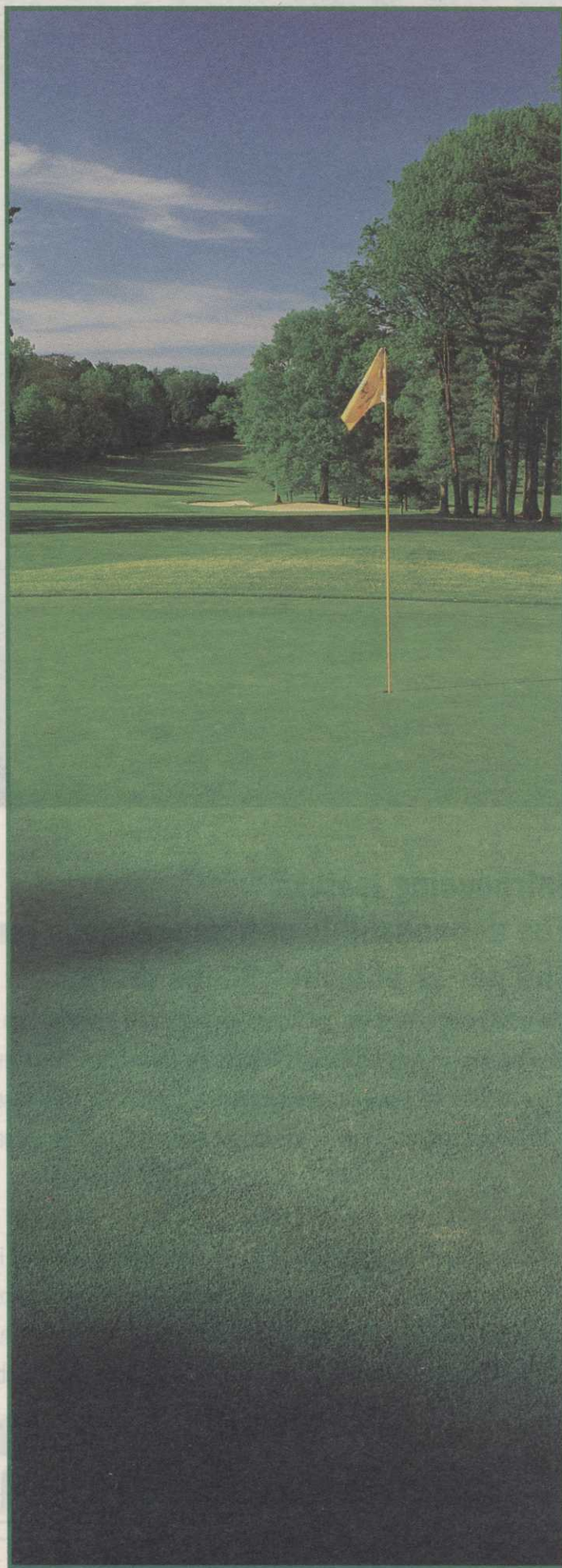
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Von Hagge tabbed for Red Tail in Ohio

AVON, Ohio — Golf course architect Robert von Hagge will design the new 18-hole Red Tail Golf Club in Avon on Cleveland's suburban west side for the Carnegie Residential Development Corp.

The Red Tail Golf Club will be the centerpiece of Carnegie's Red Tail of Avon, a 350-acre master planned golf course residential community. Von Hagge is also providing master planning services for the development.

Red Tail will be the first project of its kind in Cleveland's suburban west side. The golf course will be integrated with a community-wide pedestrian pathway system linking the residences with the clubhouse and other recreational amenities.

"This is not a new concept in golf course community planning," said Paul Restivo, Carnegie project manager. "We've just transplanted a concept which has been proven successful throughout the south and added some exciting and distinctive nuances."

Von Hagge will sculpt the course below existing grades and use excess materials to elevate the homesites. This will transform the property from flat farmland to a rolling, wooded site. Carnegie plans to transplant and revegetate the site with approximately 10,000 trees.

"Lowering the golf course play areas serves a twofold purpose," said von Hagge in a prepared release. "First it allows us to effectively control golf course drainage and improve the overall water management of the site, and second, it creates better views from the residential homesites."

"In this regard, we view the golf course as the theater for both the players and the residents. We shape the golf course to take advantage of the varying sun angles throughout the day to create an ever-changing visual display of light and shadow."

Von Hagge is no stranger to Ohio. He has designed and built seven courses across the state over the last 30 years.

But the Red Tail project is a sort of return to the U.S. market for von Hagge, one of the more international of golf course architects who has designed 250 courses around the world, including Japan, Mexico, South America and Europe.

"The quality and reputation of their courses was important to us," said Restivo. "But even more impressive was their international and domestic experience with golf course residential communities."

'Stunning' work, says Avondale official

Continued from page 41

With that, they were able to re-open the front nine in early July and back nine at the end of the month.

"They wanted to play it this year and the weather this spring was not good for grass-growing," Rathert said, "so we sodded all the greens and a bulk of the fairways, landing areas and green surrounds."

Major among the improvements, Coultrap said, is "a 400-foot babbling brook coming out of the lake next to the 10th green which runs into a waterfall that splits behind a natural outcropping and falls into a new lake."

"It is absolutely stunning."

Rathert incorporated that brook and waterfall into a new 11th that has become Avondale's signature hole. The 11th was an uphill, blind par-3. Rathert lowered the green and created the lake on the right-hand side which falls into the brook Coultrap mentioned. The green is fronted by a bunker and backed by water.

The 2-1/2-acre lake at the bottom of the waterfall serves as an irrigation reservoir.

The original, pushup greens were very small — in the range of 3,000 square feet — and fell sharply off the back. The contractor, Adair Earthworks of Post Falls, took extra material from the lakes and incorporated it around the greens to enlarge them and hold shots.

Meanwhile, Rathert said, he "reshaped the bunkers into a [Alister] Mackenzie-esque style — with some noses and fingers — and used a soft approach, with no mounds. The land forms we created are smooth contours — not bumps."

Elsewhere, Rathert recontoured many of the fairways which had severe left or right slopes in the landing areas that pushed balls into the roughs.

"It's tight because of woods," he said. "We just tried to make it more fair, add some character and create an old-looking course. And we thinned out a few trees for better sunlight and air circulation."

"It started out as solely an irrigation project," Coultrap said, adding that the 500 shareholders of the public facility are glad they went the extra mile with an extensive remodeling.

...

Rathert, meanwhile, opened a nine-hole addition at Indian Creek Golf Club in Elkhorn, Neb., in June and has a new nine at Kissing Camels Club in Colorado Springs, Colo., under construction as well as three projects in Japan and Indonesia.

A privately owned daily-fee facility 15 miles west of Omaha, Indian Creek now boasts 27 holes.

Four of the new nine holes

boast lakes and water features, including a par-4 dogleg right with a second shot over a lake, followed by a par-3 that plays around the lake and across a stream.

Builders moved about 600,000 cubic yards of earth, digging lakes, flattening out landing areas and creating a huge practice facility, Rathert said. The practice area includes a chipping and sand trap green, a big putting green and a driving range that ac-

commodates 40 golfers.

Three existing holes also were remodeled, Rathert said, as a prelude to a future renovation of the entire original 18 holes.

The private, Press Maxwell-designed Kissing Camels Club also will be 27 holes when Rathert finishes adding four holes to part of the back nine and five to another part of the back nine to turn them into two new nines.

"We analyzed the original drawings and are creating similar character to the Maxwell rolls

on the greens," Rathert said. "The difference is, the original course has become very 'treed' over the last 30 years. Ponderosa pines have grown a lot."

The scenic new nine plays along a bluff and over some natural yucca and other native vegetation. Sitting on top of a mesa above Colorado Springs, the property offers panoramic views of Pikes Peak and the red rock of the Garden of the Gods.

The track, owned by Hill Development Corp. of Dallas, is being shaped and will be seeded this fall. A 1998 opening is expected.

IT'S A COMPLETE TRIUMVIRATE

ACME, Mich. — The new 18-hole signature golf course being designed for Grand Traverse Resort Village by Gary Player will take part of his nickname with regional identification. It will be called Northern Knight. Upon completion, Grand Traverse Resort Village will be the only resort in the world to boast signature courses designed by Jack Nicklaus, Player and Lee Trevino. Plans call for ground to be broken for Northern Knight this fall, with opening projected to be as early as 1998.

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Bates' successes began with Nicklaus, continue with Couples

Continued from page 41

providing quality in whatever he did. He's also one of the greatest design strategists there is.

Johnny Miller doesn't believe in boundaries when it comes to course design. He's come up with some wild ideas. Some worked and some didn't. He once created a bunker that [intentionally] had 3 feet of water in the bottom of it all the time.

GCN: Your most recent association is with Fred Couples. How did you two get together? We've heard that Fred's involvement in a golf project is minimal. Is that true?

GB: Miller and I designed Binks Forest in West Palm Beach (Fla.), and Fred won a tournament there in 1991. After the tournament I was being interviewed for a job at a nearby private club. The developers wanted a professional player for promotional purposes. Fred wasn't that well known at the time, but he was handsome and charming. I said, "How about Fred?" They liked the idea. I called him and introduced myself as the designer of Binks Forest. We got together, hit it off right away and here we are.

It's not true that his design involvement is minimal. We do a lot of behind-the-scenes work together. His site visits have been less than he would have liked the past 18 months because of his bad back. He's physically just unable to go

out into the field in some cases. But his health is improving and he's been very involved lately. Fred has an excellent feel for taking what's on paper and transferring that into the field.

He also knows how to set up a course for the mid- to high-handicap golfer. He was a junior hack who grew up playing on some well-used public courses.

GCN: How did you get the Green Mountain National job near Burlington, Vt.? When will it open? How would you describe it? What is the significance of its being that state's first municipal layout?

GB: I worked with Nicklaus in Switzerland, which has similar terrain to the Northeast. It can be tough for an outsider to find work there because New Englanders can be pretty provincial in choosing an architect. A guy named Steve Durkee conceived the project. He spends some time down here [Palm Beach Gardens] in the winter. He just walked in the door one day and asked if we'd be interested.

The course should open in July. It has a lot of variety, nine meadowland and nine mountain holes with some beautiful views. It's the first municipal course because Burlington has grown to the point where it's big enough to support something like this. Those financial resources aren't available in most other Vermont towns.

GCN: Green fees at Green Mountain

are supposed to be in the \$40 to \$50 range, fairly expensive by municipal standards. Is this an indication of the growing difficulty of building affordable public courses?

GB: It's an expensive project and the town doesn't want to subsidize it. It has to pay for itself, like most new municipal courses today.

GCN: Couples/Bates has seven projects in various stages of design, permitting and/or construction and you alone have another 10. Is that par for the course?

GB: Yes. Ten active projects is a comfortable number for us. That allows us to pay attention to details.

GCN: How big is your office and who are some of the key people?

GB: We have six people on staff, including a secretary. The designers include Steve Wolfard, Matt Swanson and Kipp Schulties. Wolfard worked for Nicklaus and has run our Dallas office the past four years. Swanson came here directly out of Ball State University [Muncie, Ind.]. He started in the field and is in the office full time now. Schulties called me during his last year at Indiana State University and worked a semester on a renovation project at Frenchman's Creek in Palm Beach Gardens, Fla. He's full time now and is on site at San Juan Oaks in San Juan Batista, Calif.

GCN: Who is your favorite course architect and why?

GB: Not even close, Alister Mackenzie. If you play well, you'll score well on his courses. If not, you pay the price.

GCN: What is your favorite course, other than one of your own, and why?

GB: Cypress Point would be first and Pasatiempo a close second, both Mackenzie layouts.

GCN: Was there a watershed course that launched you into the public eye as a course architect?

GB: Green Spring Golf Course in Washington, Utah. It was the first project on my own. We started building in 1989 and took 12 months to open it. Golf Digest named it one of the top five new courses of the year. It was a nice way to come out of the box. It didn't surprise me that Golf Digest recognized the course itself, I just didn't think enough people would get out there to rate it.

GCN: Who was the most influential person in your career and why?

GB: Ron Kirby. He taught me the nuts and bolts of the profession. There are generally two kinds of people in this business. The tie guy works well in the office and is good with clients. The boot guy enjoys working in the field and can kick the contractor in the butt when he needs

it. Ron is one of the few guys who is both a good tie and boot guy. Bob Cupp has that rare combination, too. Personally, I enjoy the outside work. That's where the magic happens. You can take the drawings into the field and improve on them. And I just like working in the dirt.

GCN: What has been the major change in the profession since you first became involved?

GB: There are so many more of us [architects] today. When I first got involved, few architects had their own business. And we were all scrambling for projects. Everyone was cost-conscious in those days. You didn't move a lot of dirt and the pizzazz was minimal. Things got wild from about 1984 to 1990. Architects were like drunken sailors, with everyone trying to one-up Pete Dye. The Savings and Loans were pots of gold that everyone tapped into. That disappeared all of a sudden and now everyone is back to being more realistic, more cost-conscious.

The problem is that the number of projects hasn't increased as fast as the number of architects. Some of the young guys are giving quotes for half of what an experienced architect would charge. That's just too low. A price of \$75,000 to \$100,000 is hard to justify for the two to three years it generally takes to bring a project from conception through construction.

GCN: According to the National Golf Foundation, 468 new courses opened in 1995. Do you see this pace continuing?

GB: More money is coming into the industry, so more of the marginal projects are able to find money. Many municipalities are realizing that golf can be a recreational adjunct that can make money for the city. Money is also more readily available from individual investors if deals are put together properly. They see golf as a good investment.

GCN: You are known as one of the major designers of Cayman courses. The idea seems like a good one but has never really caught on. Why is that?

GB: Golf is a very traditional game. People are often skeptical about anything new or unique. The Cayman ball looks different, sounds different and doesn't go as far. Charlie Frazier, a Hilton Head developer, saw it as a great addition to industrial parks. But it's bucking tradition.

GCN: Why haven't you sought admission to the American Society of Golf Course Architects?

GB: The ASGCA is a wonderful association. I've had to pay attention to my business and my family and just haven't had the time to join. Some day I may be a part of it.

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Ross Society funds Cornell student's work

BLOOMFIELD, Conn. — Cornell University landscape architecture student David V. Ferris Jr. received a \$6,000 internship this summer from the Donald Ross Society to work on a golf project that may have lasting effects on the industry.

The grant to Hurdzan Design Group of Columbus, Ohio, is allowing Ferris to work on Widow's Walk Golf Course in Scituate, Mass. Widow's Walk is a unique project expected to "produce the least environmentally impacting golf course possible while enhancing wildlife potential," according to Michael Hurdzan.

It is expected to require one-half the average water, fertilizer, pesticides and fossil fuels for maintenance. Also, 18 different types of putting greens are being built on the course to help research in that area of maintenance.

A master's degree candidate with a bachelor's degree in horticulture, Ferris intends to enter the golf course design field.

The 1,200-member Ross Society is dedicated to promoting, preserving and maintaining classic golf courses, especially those designed by the legendary Donald Ross.

Salt threatens Southeastern aquifer

Continued from page 1

existing courses about switching over to alternatives like surface water, other aquifers, effluent and aquifer storage and recovery," said Bill Frechette, principal geologist for the Water Resources Management Program of the Georgia Environmental Protection Division of DNR.

"Our coastal strategy is still in draft form, and one of the proposals is no new golf courses using the Floridan aquifer. Existing courses will have to switch over eventually... We're trying to work with [the golf community] to develop a means of meeting our objectives without causing too much difficulty. One of the things we've heard is, if you design this stuff in the early stages of development, this isn't a big problem. Of course, the retrofitting will be more difficult."

After holding a series of citizen meetings this spring, the Georgia Environmental Protection Division of DNR had intended to begin implementation of a coordinated interim strategy on July 1. But Frechette indicated a plan probably won't take shape until after the Atlanta Olympics have concluded.

According to a draft of the DNR's Interim Southeast Georgia Ground Water Management Strategy, the problem is serious. "Salt water is moving into the upper Floridan aquifer in the vicinity of Port Royal Sound, immediately north of Hilton Head Island in South Carolina, and toward Savannah," the report states. "Brines have already made a portion of the Floridan aquifer salty in Brunswick and are moving up into the freshwater portion of the aquifer in Brunswick."

"Salt water intrusion in the aquifer is also possibly occurring in the vicinity of Fernandina Beach, Fla./St. Mary's, Ga.," the report continues. "A municipal well at Thunderbolt (Chatham County), Ga. has had to be closed because of saltiness from unknown sources."

The U.S. Geological Survey has advanced the idea there may be a salt water wedge in the aquifer near the northern end of Tybee Island. If this is true, Savannah's water supply would be endangered.

"This is a serious, serious problem," said Frechette. "We're trying to keep this clean for drinking water. This report is

'This is a serious, serious problem. We're trying to keep this clean for drinking water... Where we are now, we will not permit any new golf courses in that area.'

— Bill Frechette, geologist

still in draft form and a lot of stuff needs to be developed. But where we are now, we will not permit any new golf courses in that area.

"Down in Brunswick, golf courses have been permitted for the Miocene aquifer, which is above the Floridan. No problems have been reported so far.

"The Floridan is a limestone aquifer, while the Miocene is sand and runs a little slow. But that's perfect for golf courses. They can turn on the pump at night, fill the lagoons and irrigate from there."

Frechette noted that South Carolina in general, and Hilton Head Island in particular, have already implemented irrigation strategies that don't necessarily rely on the Floridan. The most successful has been aquifer storage and recovery.

"Essentially, on Hilton Head, if you're on effluent during the summer, there aren't enough toilet flushes to irrigate the courses," Frechette explained. "With aquifer storage and recovery, you basically take treated water during the off season, inject it into the ground and store it there. During peak use, you've got whatever people are flushing plus that which has been stored."

"I know this is being done in Myrtle Beach, too; and in Florida. There's no reason we can't do that in Georgia."

Frechette encouraged input from golf industry members interested in providing input on the Interim Southeast Georgia Ground Water Management Strategy. He can be reached at 404-656-3094.



CREEPING BUNKER BOUNDARIES

Bunkers can lose their shape over time, as exhibited by this greenside hazard in transition at Winchester (Mass.) Country Club. Architect Stephen Kay has completed a thorough bunker renovation at this venerable Donald Ross design in suburban Boston. Most of Kay's work involved restoring the traps to the original Ross plans — note the stakes (in photo below) marking the original boundary. Along with major bunker work, the course underwent a complete irrigation upgrade; all this in anticipation of the 1996 Massachusetts Open, which went off without a hitch in June.



Fabrizio refining 4 Palm Coast tracks

PALM COAST, Fla. — Palm Coast Resort has contracted golf course developer Mike Fabrizio to refine its four championship 18-hole golf courses designed by Gary Player and Arnold Palmer — Cypress Knoll, Matanzas Woods Palm Harbor golf clubs and Pine Lakes Country Club.

Fabrizio will also be instrumental in developing Palm Coast Resort's fifth course, a Jack Nicklaus design that will be completed in 1997.

"Mike's unique skills and leadership allowed Wild Dunes Links Course to gain recognition as the 32nd best course in the world by *Golf Digest*. There's no one better to oversee our existing four courses and the development of our new Jack Nicklaus signature course," said Matt Hagler, general manager of Palm Coast Resort.

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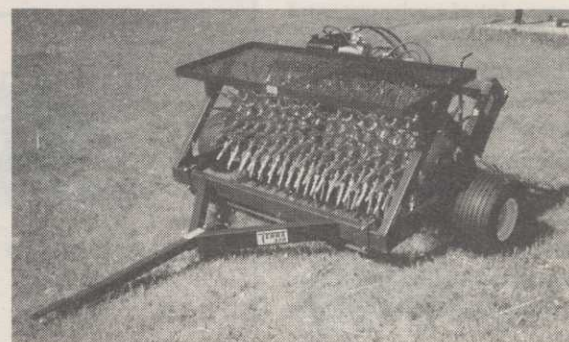
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Leslie: Audubons not so far apart

Continued from page 10

Purged leadership and mended fences. It's fascinating how the two so often play out in concert. A case in point affecting the golf industry is the National Audubon Society's hiring of President John Flicker to replace Peter A.A. Berle, and the ensuing warming relationship with Audubon International (AI) and its Audubon Society of New York State branch.

The two associations have been in a heated battle for several years — ever since AI created the Audubon Cooperative Sanctuary Program and began working with nature's perceived "enemy" — golf courses. Ever since, NAS has vocally and venomously — not to mention wrongly — blasted AI as a rogue group.

Yet, the NAS leadership has been purged, to an extent, and the fence appears to be on the mend.

"We're making inroads with National Audubon," said AI President Ron Dodson. "A couple of months ago, we had two NAS staff people in the office, talking about what we're doing and they're doing. Dr. [Frank B.] Gill [NAS' new director of science] was here. Later, we received some nice complimentary letters back from them."

Next is a meeting between Dodson and Flicker to discuss "program philosophy, direction, and so forth."

"My ultimate hope," Dodson said, "is that we can learn to support each other where we can. We don't need to get to the point — nor do I think we ever will — where we will endorse each other's programs or philosophies on everything. The bottom line is that we're all busy. There are a lot of environmental issues we all need to work on..."

"I'm hoping that, if nothing else, we'll at least get some correspondence generated from them, communicating with their chapters that some of the correspondence sent out from the previous administration of National Audubon is no longer in effect; that while they do not do the same kind of programming we do, we all philosophically are trying to help people do good things for the environment; and that using personal agendas and casting disparaging remarks about fellow environmental organizations and people concerned with the environment is not to be pursued any longer."

While NAS can still disagree with AI's work with golf courses, Dodson added, "they don't have to put out shaded half-truths, mostly lies that make people question our integrity and personal attacks on me and my staff. I want to get over that."

Meanwhile, it's nice to see the NAS commit itself to science as "the foundation on which the rest

of its work must rest." In his comment in *Audubon* magazine's May-June issue, Flicker declared this position while noting the hiring of ornithologist Gill.

It's interesting that Flicker on the one hand claims the history of Audubon is as a leader in science, and on the other hand acknowledges: "Credibility in this area will bring us respect throughout the scientific community, enabling us to form partnerships with outside researchers such as our Audubon Associates. These experts will serve as unofficial advisers to the organization in their particu-

lar field."

Along this line, NAS started an Important Bird Areas Project and is expanding its bird-monitoring programs and the MAPS project (Monitoring Avian Productivity and Survivorship), Flicker added. NAS is "exploring a backyard-habitat initiative, one that will stress private ownership and the pride and responsibility that goes with it."

Sounds rather like the Clinton-GOP thing, doesn't it — where one person tries to usurp another's ideas?

Fact is, the New York Audubon has promoted its own Backyard

Program for quite some time, as have the National Wildlife Federation and others.

"The finest form of flattery is trying to do what we're doing," Dodson said. "National Audubon has 500,000 members. If they can get each to do something in their backyards to help migratory birds, I think that would be great."

AI hasn't pushed its Backyard Program, waiting instead for the right sponsor to come along. That happened with the Audubon Cooperative Sanctuary Program, which was adopted by the U.S. Golf Association, and

the Adopt-a-School Program, adopted by the Golf Course Superintendents Association of America.

Now, about that backyard program... Remember this, says Dodson: "Homeowners can use diazinon and yet golf course superintendents can't. But a backyard is a backyard. A golf course is a backyard. A farm is a backyard. What's the difference with National Audubon starting a backyard sanctuary program and what we're doing with our golf course program? They're endorsing what we're doing."

Continued on next page

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Pelican Bay undertakes greens work

DAYTONA BEACH, Fla. — Golfers will experience larger greens and more consistent putting surfaces when a \$260,000 greens improvement project at Pelican Bay Country Club's Members Course here is completed later this year.

The project, supervised by International Golf Management (IGM) of Lakeland, is slated for completion around Labor Day. All greens at the 18-hole course are being reconfigured and enlarged, and most bunkers and sandtraps are being changed, according to Jerry Broome, IGM's regional manager at Pelican Bay.

Broome said Pelican Bay's outstanding characteristics are its roominess and the "sense of

tranquility" golfers feel when they play either of the two courses.

A specialist in providing golf course maintenance services on a contract basis, IGM is also overseeing a \$700,000 golf course upgrade at The Palms, one of five courses it maintains at the sprawling Palm-Aire Spa and Resort in Pompano Beach.

Under this project, IGM is in charge of redesigning and rebuilding the 18-hole course's greens, bunkers, select tees and fairways, as well as major irrigation and drainage improvements. This is the first face-lift for the Robert von Hagge-designed course since it opened in 1959. Work was scheduled for completion by the end of July.

Leslie: Labs checking in none too early

Continued from previous page
always look for the green lining."

...

How important is the accreditation for soil-testing laboratories? (See story, page 15) Mark Flock, Agriculture Division director for Brookside Laboratories, said: "The problem is, you have laboratories doing supposedly the same test, but with differences in the way they have it set up. You'd have a blender, or golf course builder get three different results [from tests sent to three labs] because the procedures were dif-

ferent. One lab was doing a percolation test by using a vacuum and sucking the water through. Another was letting it gravity-flow through. Both are valid scientific methods, but the interpretation might be dramatically different. One guy has 40 inches per hour and the other 10 inches, and they both say it's okay. Maybe they both were okay, but it was very confusing."

...

Be forward-looking and stop bad-mouthing the research on biological-control agents. That's the message from forward-looking superintendent Dan Dinelli of North Shore Country Club in Glenview, Ill., a key contact in our page 1 story on biologicals.

"People tend to still term biologicals 'snake oil' — even somewhat in the scientific community," said Dinelli. "No one really debates what these organisms can do in the lab. But the big question is, can it work in the real world? To me, that's sad because we're finally at the point where we're making some breakthroughs. EcoSoil is one of them. Another is Gary Harman [of Cornell University] hybridizing *Trichoderma* to become a really aggressive strain over and above native strains... I have no interest in selling these products. But I have a big interest in hoping that this direction continues to be explored."

"We have a lot more to learn with these pioneers — [EcoSoil's] BioJect and *Trichoderma* — learning their shortcomings and how to use them. That's all in the growing pains, but why bad-mouth them and shoot that direction down? In the same breath, those scientists will give directions for treating seed [with endophytes], and that's been widely accepted now. It's accepted only because it's been around longer. Yet it is really biological control — and successful biological control."

...

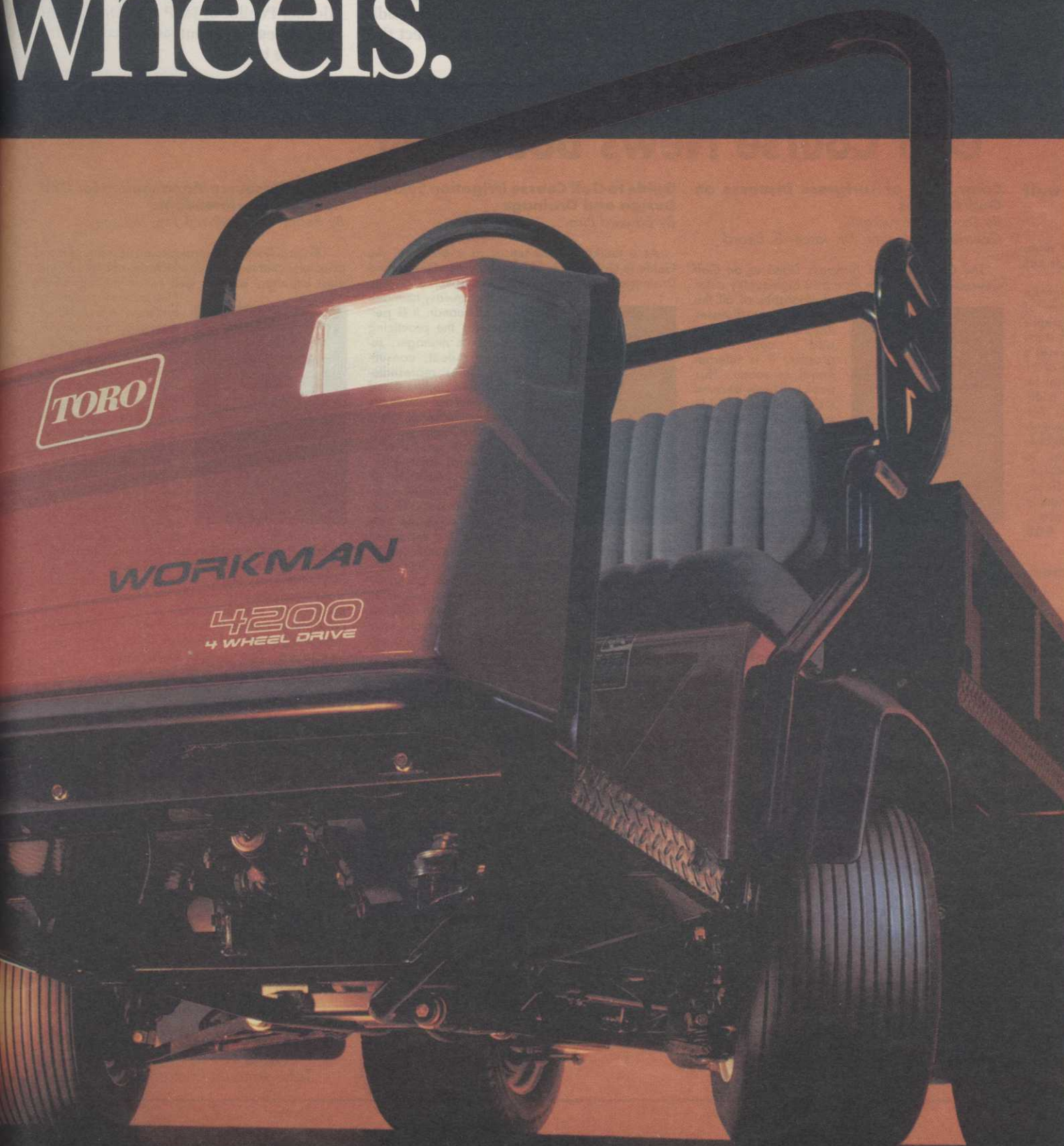
No, it was not new to the game of golf, though it might be for other sports. After disqualifying himself from the Greater Hartford Open for playing with an improperly stamped ball, Greg Norman was asked why he would do such a thing.

"Look," he said, "if you cheat once, you cheat not on yourself but on life. You have to get that message across. Kids might see that, and when they get themselves into that kind of situation in the future, maybe they'll say, 'Hey, remember what Greg Norman did.' And that's great."

"We need to honor [the game]," he added. "What I did, any other player would have done, or at least I hope they would. I think it's just bred down through the generations. We police our own game."

The entire industry can be proud of this type of reputation for honesty.

to stand on wheels.



Weyerhaeuser builds in N.C.

NEW BERN, N.C. — Work has started on an 18-hole course that will be the centerpiece of an 1,100-acre project to be called Taberna and developed by Weyerhaeuser Real Estate.

Jim Lipe, a longtime designer with Jack Nicklaus, has designed the 18-hole course. Officials hope to open the course by fall 1997. The facility will also include a 6,000-square-foot clubhouse, putting and chipping greens, a driving range and swimming and tennis. Weyerhaeuser also plans to leave 250 acres of wetlands intact and create two, 10-acre natural parks.

The site, which adjoins Brice's Creek, Boleyn Creek and the site of the Civil War Battle of New Bern, will also include between 750 and 800 homesites.

PALMER ADDS TO TREESDALE

BUTLER, Pa. — The Treesdale Golf & Country Club will expand its golf facility with nine new holes designed by Arnold Palmer and add 44 homes. Treesdale will add nine more holes to go with an 18-hole layout also designed by Palmer. The new houses will be built along the new nine holes and known as Four Lakes. Construction on the golf course is expected to begin this summer.



PUTTING IT ON THE LINE

Hoping that the facility will "help identify the Rogue Valley and Jackson County as a destination for outstanding public golf," Robert Trent Jones Jr. hosted grand opening ceremonies in Eagle Point, Ore., July 24 for Eagle Point Golf Course, which became the first course owned and operated by Jones' company — RTJ2. The 7,090-yard par-72 track is characterized by mounding, swales, grassy hollows, strategically placed bunkers, native vegetation and "spectacular views." It is the centerpiece of a 350-acre golf and residential community master-planned by the RTJ2 group.

WEED RENOVATING, IMPROVING TIMUQUANA

JACKSONVILLE, Fla. — Robert C. Weed Design, Inc. is in the midst of renovating and improving drainage at Timuquana Country Club here. This project is expected to improve overall conditions, increase playability of the course and provide additional drainage. A new irrigation system will also be installed. Officials expect the course to be ready on Nov. 1.

Developer eyes mountain site

CAMPTON, N.H. — An 18-hole, daily-fee course is planned for a site alongside Route 93 not far from the Waterville Valley ski resort.

Developer Thomas Mullen wants to build the \$3 million course on a 397-acre tract known as Sunset Hill, which is located behind Campton Town Village. The course will be designed by Cornish, Silva & Mungeam of Uxbridge, Mass.

Preliminary plans call for a 6,800-yard, par-72 layout. The proposed course, which faces several regulatory reviews, could fill a longstanding gap in the area. Waterville Valley resort area has had a nine-hole golf course for many years but no championship-caliber 18-hole course.

CALIF. TOWN OKAYS COURSE

MORAGA, Calif. — The Town Council has approved the golf course portion of the Palos Colorados project, reversing a decision by a local Planning Commission against the proposed links.

Richland Development Corp. wants to develop an 18-hole course designed by Michael Poellot of JMP Golf Design and 146 homes on about 460 acres on the Lafayette border.

Golf Course News Bookshelf

The Confidential Guide to Golf Courses

By Tom Doak

This book describes, uncovers and rates more than 1,000 courses worldwide that the author has visited and photographed.

With more than 180 four-color photos, it might be the best collection of worldwide photographs ever published. It starts with a "Gourmet's Choice" selection of 31 of Doak's personal favorites, each by a different designer, followed by brief reviews of courses from Pebble Beach, California, to Kebo Valley, Maine, and from St. Andrews, Scotland, to Joondalup in Western Australia.

\$45.00, 400

pages, hardcover.

Superintendent's Handbook of Financial Management

By Raymond S. Schmidgall

This self-teaching manual was written specifically for golf course superintendents, managers, and owners. It's designed to make complicated subjects easy-to-understand by using simple demonstrations, useful exercises, and step-by-step instructions. *The Superintendent's Handbook of Financial Management* is the official certification textbook of the Golf Course Superintendents Association of America. The book presents useful methods and techniques for understanding and using income statements, balance sheets, accounting procedures, financial statements, operating budgets, capital budgets, record keeping, and much more. You will learn to operate your facility smoothly and profitably — whether private, semi-private, or public — by understanding and applying the financial skills presented in this guidebook.

\$34.95, 150 pages, hardcover.

Turfgrass Management Information Directory

By Dr. Keith Karnok

A 1,700-entry reference for turfgrass and green industry professionals, the *Turfgrass Management Information Directory* compiles the latest information and gives an at-your-fingertips list, complete with names, addresses and useful material you need every day.

\$19.95, 115 pages, softcover.

Color Atlas of Turfgrass Diseases on Golf Courses

By Dr. Toshikazu Tani

Contributing Author, Dr. James B. Beard

The *Color Atlas of Turfgrass Diseases on Golf Courses* presents more than 540 high-quality color photographs of all the major turfgrass diseases that occur on both warm- and cool-season grasses. It is international in scope. This book will likely become the standard color-guide to disease diagnosis and pathogen identification for golf course superintendents and turfgrass practitioners. No other book contains as many color photographs of this detail

and quality. Helpful maps are included to assist in disease identification by providing geographical locations where each disease/pathogen is likely to occur. A unique feature of this easy-to-use field guide is that it also provides color photos of step-by-step guidance on diagnostic techniques for laboratory analysis which can be used by practitioners.

\$79.95, Approx. 250 pages, hardcover.

Guide to Golf Course Irrigation System Design and Drainage

By Edward Pira

As a working reference or as a textbook, the *Guide to Golf Course Irrigation System Design and Drainage* covers every important aspect of the subject in an easy-to-understand format. It is perfect for the practicing turfgrass manager, superintendent, consultant, sales representative, and student. Used in numerous academic courses for years, this is the first commercially available version of a perennial best-seller, and is completely revised with new exercises, practical examples, numerous new figures, and expanded

sections covering a wide variety of irrigation system components. A hands-on manual, it guides the reader through every phase of an irrigation program. Turfgrass managers and golf course superintendents will refer to this handy book often to plan effective irrigation systems, ensure appropriate capacity, easy installation, and practical operation and maintenance.

\$59.95, 400 pages, hardcover.

Human Resource Management for Golf Course Superintendents

By Robert Milligan and Tom Maloney

This practical guide provides basic management principles and techniques which view people as the most important asset in golf course management.

Five basic management functions are detailed throughout the book, using everyday situations to illustrate the key points. Designed to serve as a quick reference, or as a self-teaching guide, *Human Resource Management for Golf Course Superintendents* features numerous techniques and practical examples. Every aspect of management is covered. Learn how to improve your planning

abilities, build leadership and communication skills, maximize employee performance, select and train new employees, avoid the mistakes that cause low morale and poor performance, and conduct employee performance evaluations. Use of the methods and principles presented in this book will ensure the effective management and operation of any golf facility.

\$34.95, 150 pages, hardcover.

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BRIEFS



BRASSIE APPOINTS THREE

TAMPA, Fla. — Brassie Golf Corp. recently made three new appointments. Janet Mulroy will become director of membership marketing with Kristen Thomas and Kim Fox the new directors of business development. Brassie and its Hale Irwin Golf Design division acquire, design, construct and operate courses throughout the United States.

ISS NAMES HICKMAN VP

TAMPA, Fla. — ISS Landscape Management Services golf division recently named Paul Hickman vice president. Before joining ISS, Hickman spent 22 years at the Grenelefe Resort in Haines City, Fla. Grenelefe's West course was rated Florida's No. 1 course six times by *Golf Week*. Hickman will be responsible for the overall operation of the golf division. ISS maintains 225 holes of golf across Florida.



Paul Hickman

GIBSON JOINS HERITAGE

INDIANAPOLIS — Heritage Golf Management has named James Gibson director of operations. Gibson will oversee the Indianapolis-based firm's four Indiana courses. Gibson spent 19 years at Chemlawn Services Corp. and brings extensive experience in internal corporate operations, including business planning and organization, personnel training and customer service.

KOLL, COBBLESTONE INK DEAL

ESCONDIDO, Calif. — Koll Real Estate Group recently sold Rancho San Pasqual Golf Club to Cobblestone Golf Group for \$6 million. Formerly known as Eagle Crest, the public course will be the centerpiece of KREG's 872-acre Rancho San Pasqual gated residential community. Cobblestone will build a clubhouse once home construction begins.

LEBAY LANDS AT PUTNAM CC

MAHOPAC, N.Y. — Wes LeBay, a 20-year hospitality industry veteran, has been named the new general manager of Putnam Country Club here. An expansion of the club's current 18-hole course, upgrading the dining facilities and the construction of 200 homes on adjacent property are among the future plans.



Wes LeBay

Just what are Legends made of? The Youngs

Myrtle Beach company moves on Williamsburg and perhaps other Southeastern points

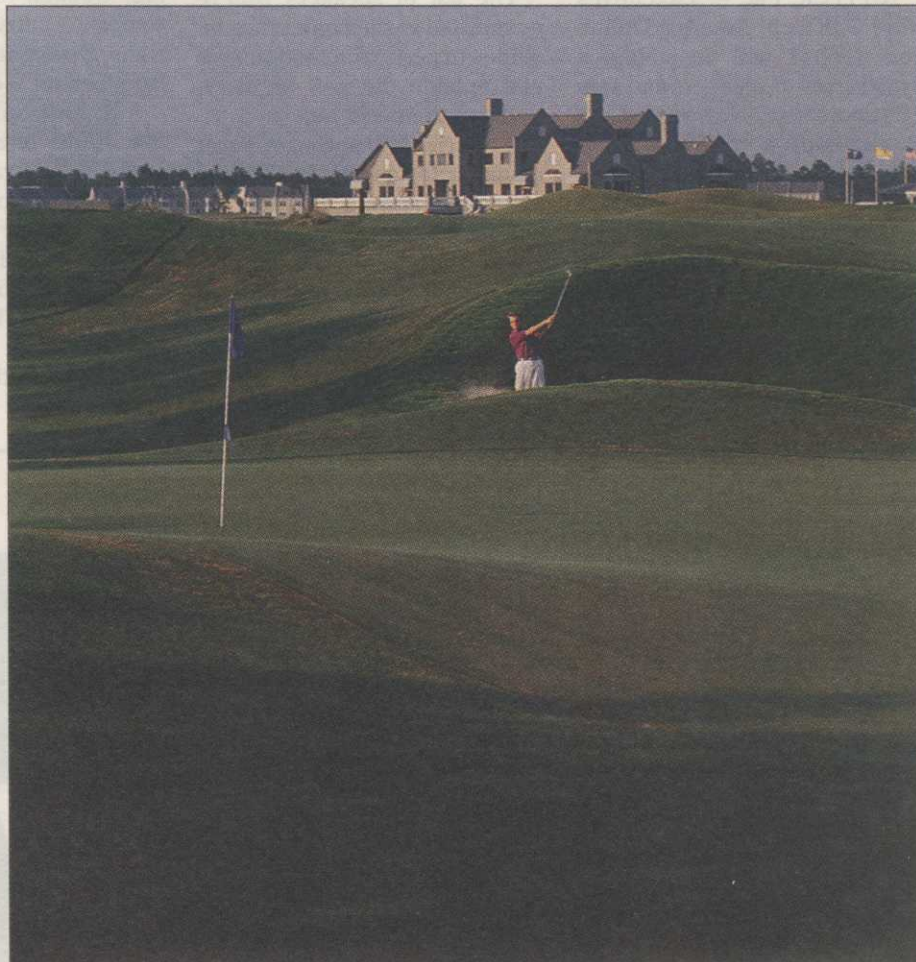
By PETER BLAIS

MYRTLE BEACH, S.C. — A "visionary" is how Danny Young describes his dad, Larry, president of The Legends Group, one of the major course operators in the Myrtle Beach and Williamsburg, Va., markets.

"There were no upscale courses in Myrtle Beach in the late 1970s," said Danny, vice president of operations. "The Surf Club and Arcadian Shores were nice. But they weren't as good as those in Pinehurst and Hilton Head. Myrtle Beach had a strong hotel base and Dad saw an opportunity. Golfers were coming to Myrtle Beach and he figured they'd drive a little farther to play a great course. He was right."

Added Chief Operating Officer Brad Blair: "We feel there are some additional options for us in Virginia [where Young recently opened two new courses near Williamsburg]. The golf package business hasn't been exploited in that market near as well as it could. And we're looking at other options up and down the coast."

Young first tested his theory in 1980 that Myrtle Beach golfers would travel a little farther to play a better course when he opened Dan Maples-designed Marsh Harbour in Calabash, N.C., just over the South Carolina border. The



The Moorland course is part of The Legends complex near Myrtle Beach, the Youngs' stronghold.

course won numerous accolades from golfers and golf magazines. Young followed that in 1983 with Maples-designed Oyster Bay in Sunset Beach, N.C., and three years later added the

Heritage Club, also a Maples design, near Pawley's Island, S.C. All received positive reviews.

Young wasn't done. Between 1990

Continued on page 55

KSL Fairways names Affeldt to lead public golf management firm

MANASSAS, Va. — KSL Fairways has promoted Eric Affeldt to president and chief executive officer.



Eric Affeldt

Affeldt joined KSL Fairways in 1993 as vice president of acquisitions. He was then promoted to North regional director of operations in 1994 and president, chief operating officer last August. Since Affeldt joined KSLF, the company has grown from 11 to 26 courses, with a similar percentage growth in revenues and profits.

Affeldt succeeds Charles Staples, who is leaving the Virginia-based company to pursue other interests.

"Eric has proven his leadership skills in a variety of capacities since joining," said KSL Recreation President Michael Shannon.

"We are extremely grateful for Charlie's many contributions and wish him all the best in his new endeavors."

KSL Fairways' 26 courses are scattered throughout Florida, Virginia, Pennsylvania, Maryland, Tennessee and Wisconsin.

Buying programs growing in popularity

By J. BARRY MOTHES

The group buying craze is sweeping the golf industry — and the newest target is superintendents.

Earlier this summer, a group called the National Turf Cooperative, Inc. (NTC) near Baltimore announced plans to sign up at least 250 members for discounts on seeds, fertilizers and other golf course maintenance goods from manufacturers and suppliers.

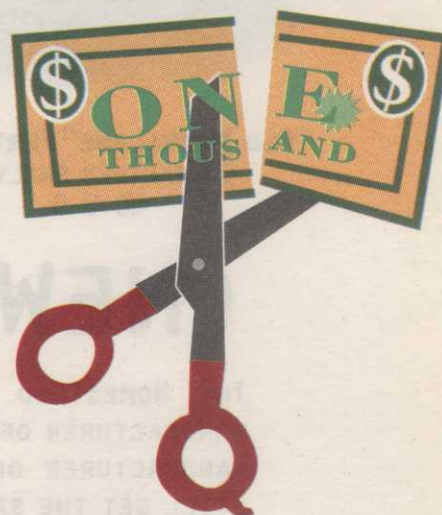
Now, VGM Golf, an Iowa-based buying group that has been operating mostly in golf equipment and pro shop supplies for golf pros and owners the past two years, is looking seriously into expanding its services to seeds, fertilizer and possibly even golf course maintenance equipment like mowers and aerators.

"We want to be able to help the whole golf course," said Kent Dirks, vice president of marketing for VGM Golf, "not just the pro shop."

The people behind VGM Golf are hardly strangers to group buying. Its parent company, VGM Associates, is the largest player of its kind in the home medical equipment field. VGM — the name derives from the initials of founder Van G. Miller — has more than 2,000 clients in the home medical equipment field and 11 years of experience.

The 2-year-old VGM Golf was started with the idea of going after independent golf professionals and golf course owners to offer them discounts on hard and soft golf equipment so they could compete with off-site discount retail golf shops. Golf professionals and golf course owners have seen their share of pro shop

VGM Golf currently has about 800 members in the U.S. and works with 60 participating manufacturers and vendors.



equipment sales drop significantly in recent years due to off-course discount shops. It's been estimated that 75 percent of golf merchandise is currently sold off-course.

Dirks said VGM Golf currently has about 800 members in the U.S. and works with 60 participating manufacturers and vendors, from Active Gloves and Cross Creek clothing to H&B Powerbilt, Maxfli, Munsingwear, Spalding, Imperial Headwear and Wilson. The members range from course owners and individual

Continued on page 55

Speakers list unveiled for National Golf Foundation Internet conference

JUPITER, Fla. — Executives from GolfWeb, America Online and Reebok will be among a broad array of speakers and panelists at the National Golf Foundation's golf industry Internet conference in Boston in October.

The conference, scheduled for Oct. 13-15 at the Marriott Copley Place, one of the first hotels in the nation with direct Internet access capability, is titled "The Information Superhighway: Applications for the Golf Industry."

The list of speakers who've committed to the conference includes experts from both inside and outside the golf industry. Some of them will be:

- Chris Marentis, general manager for sports, health and fitness channels at America Online, one of the world's largest and most experienced providers of online services with 3.5 million customers.

- Brenda Goodell, vice president of New Media Programming for Reebok International

Ltd. Goodell has overseen the company's entry into the Internet since December 1994 when it launched its World Web site.

- H. Eliot Subin, chief executive officer of Spectra.Net, one of the most progressive of the commercial online systems whose partners include such companies as First USA Bank, MasterCard, Chemical Financial Services and The Wall Street Journal.

- Bob Vieraitis, vice president of marketing and sales for

GolfWeb, one of the top consumer-oriented sites on the World Web today.

"We've been selecting our speakers and building our program around the fact that we want this conference to meet the needs of both experienced Internet users who are seeking to strengthen their current online capabilities ... as well as those who are thinking of making the investment but want to better understand the environment before doing so," said

Charles Mayberry, the director of library resources for the NGF who is overseeing the planning and development of the conference.

The conference will open with a special four-hour introductory session for those wishing to get background on the basics of the World Wide Web and today's online technology.

The remaining two days of the conference will feature presentations and panel discussions by some of the leading Internet providers and World Wide Web site developers. Among the topics to be discussed are current and future trends in commercial online services, legal and security issues, selecting and evaluating service providers, key concepts, technology and applications and marketing, business planning and operational strategies.

There will also be an exposition during the NGF conference that will showcase the latest online hardware as well as software providers, consultants and home page developers with more than 50 companies and organizations.

Anyone wishing to register for the conference can call 1-888-ASK-4NGF. In addition, the NGF's own World Wide Web home page (<http://www.ngf.org>) will carry current information about the conference and exposition.

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House bill could help preserve caddie programs

WASHINGTON, D.C.

— A bill that would simplify the tests for independent contractor status and help private clubs preserve caddie programs is working its way through Congress.

The House Ways and Means Oversight Subcommittee held two hearings in June on the issue of worker clarification. One focal point of the hearings was the bill H.R. 1972.

H.R. 1972 would simplify the tests for independent contractor status. The National Club Association is spearheading The Coalition to Preserve Caddie Programs in support of this legislation and its Senate version.

According to National Club Association literature, support continues to build as Congressional supporters consider ways to move the legislation to their respective floors for a vote.

IGM continues Southeastern push

LAKELAND, Fla. — International Golf Management, Inc. has been retained to provide professional golf course maintenance services on a contractual basis for two county-owned and operated golf courses at Sandridge Golf Club in Vero Beach, Fla., and the nine-hole executive course at Leisure Lakes Golf Course in Lake Placid, Fla.

Under the agreement with Sandridge, IGM will provide turnkey golf course maintenance services for the club's two 18-hole, par-72 courses — The Dunes and The Lakes, both of which were designed by Ron Garl of Lakeland, built by Guettler & Sons and owned and operated by Indian River County. The 7,000-yard Dunes course opened in 1986, while the 6,300-yard Lakes course opened in 1992.

Maintenance at both courses will be handled by IGM staff working under the direction of Scott Campbell, IGM's resident superintendent assigned to Sandridge, and Jim Wells, CGCS, IGM's Central Florida regional manager. Hank Vroman is the club manager. Bob Komarinetz is golf pro and director of golf.

At Leisure Lakes, IGM will handle mowing, irrigation, integrated pest management and equipment maintenance for the course at the Leisure Lakes Resort along the shoreline of Lake June. The resort is owned by Avatar Properties. Chuck Faremouth is club manager.

Headquartered in Lakeland, IGM specializes in contracted golf course maintenance services for private, semi-private,

public and municipal golf courses. IGM currently provides golf course maintenance services for 22 courses in Florida and elsewhere in the southeast.

In other news, two IGM officials have been named to the Industry Advisory Committee of Lake City Community College in Lake City, Fla.

Scott Zakany, CGCS, vice president and general manager of IGM, and Jimmy Witt, CGCS, IGM's regional manager for southeast Florida, were named to the committee. Witt directs a 60-member IGM staff which provides golf course maintenance for five championship courses at Palm-Aire Spa & Resort in Pompano Beach, Fla.

The Industry Advisory Committee established general guidelines and curriculum for Lake City Community College, one of the nation's leading schools specializing in preparing students for careers in the golf course management/maintenance field.

IGM has also awarded Derek Vaughn of Wildwood, Fla., a full scholarship to pursue his studies in course management at Lake City Community College.

"Derek has expressed a strong interest in a golf course management career and has demonstrated abilities in this field by being accepted into the Lake City Community College program," Zakany said. "We are very pleased to be helping him reach his career goal by awarding him an IGM scholarship."

Vaughn will begin his studies in the fall semester, which begins Aug. 15.

The Legends Group

Continued from page 53

and 1992 he constructed The Legends in Myrtle Beach, a three-course complex that became the headquarters for the growing Young empire. Tom Doak designed the Parkland and Heathland layouts and P.B. Dye the Moorland track. The two-mile, tree-lined drive leading up to the massive Scottish-looking Legends clubhouse adds to the feeling that this is something a cut above the average Myrtle Beach fare.

But Young still wasn't finished. Believing Myrtle Beach was nearing capacity, he looked northward to Williamsburg. He struck a deal with the Chesapeake Corp., a paper company and major landowner. Chesapeake's real-estate subsidiary, Delmarva Corp., won a bidding war to build the state's only thoroughbred horseracing track in New Kent, halfway between Williamsburg and Richmond. Chesapeake plans to build as many as eight courses in the area and chose Young as its partner. The first two, The Legends at New Kent and The Legends at Stonehouse, opened this summer and are expected to contend for best new course of the year honors in many publications. Former Tom Fazio associate Mike Strantz designed both.

"It's going to take a few years to get these the way we want them," said Danny, who supervises course construction for The Legends Group and was in charge of building all Legends' properties except Marsh Harbour ("My Dad did that one."). "We want them to be perfect and then we'll look at building more. We have some big

plans. We can't comment on them yet, but they'll take us outside Williamsburg and Myrtle Beach."

Greens fees at the six South Carolina courses range from \$37 to \$83 with cart, depending on the time of year. The six layouts host more than 300,000 rounds annually, Blair said.

While each of The Legends Group courses has its own superintendent and head pro, overall management for the eight facilities is headquartered at the Myrtle Beach Legends complex.

"The marketing, personnel, financial, accounting and reservation functions are all done through our office here in Myrtle Beach," explained Blair. "Each course is an individual profit center but has a portion of its operation charged against our overall overhead budget. We have a real-estate and hotel management operation based here as well."

"It's very efficient," Danny Young said. "Having eight courses gives us some tremendous advantages in terms of buying power. We've aligned ourselves with John Deere and O.M. Scott Fertilizer, for instance."

In addition to the Youngs and Blair, other key executives include Director of Maintenance David Sapp, Director of Agronomy Terry Buchen and Chief Financial Officer Al Hooks.

"We have the capacity within our management structure to take on another three to four courses without overburdening our existing administrative staff," Blair said. "We'd prefer to build, own and operate our own courses. That's not to say we wouldn't do a management deal, or lease a facility if the situation were right. But the highest and best use of our resources is to build, own and operate our own facilities."

Group buying

Continued from page 53

golf professionals to about 15 management companies.

"The initial stage was pro shop merchandise," said Dirks, "that's where the public sees the difference in pricing most. But we're looking to diversify out and catch the market."

While the number of buying groups is rising, there is also a growing number of specialized services offered.

VGM offers fax-on-demand service. It serves up fresh lists of excess inventory and discount equipment to members. VGM Golf members can dial a toll-free number, enter their membership number and get a direct, updated fax with equipment information. VGM runs several services with the fax program — a "Connecting Link" fax-exchange for golf professionals looking to buy or sell inventory, a "Want List" for members looking for rare or hard-to-find items, and a "Manufacturers Special" list that covers closeouts on items like golf gloves and other equipment that in the past would automatically get scooped up by off-course discount shops.

"It's like immediate gratification," said Dirks. He said the information on the fax lists is updated every other week.

We want to get everybody that's in the green grass industry and collage them together to improve the buying power of all the members. That's the only way you can compete against the Nevada Bob's.'

**— Kent Dirks,
VGM vice president of
marketing**

With the emergence of groups like the National Turf Cooperative and VGM Golf, groups like the National Golf Course Owners Association (NGCOA) and its "Smart Buy" buying program and American Golf and even smaller, regional buying groups no longer have the field to themselves.

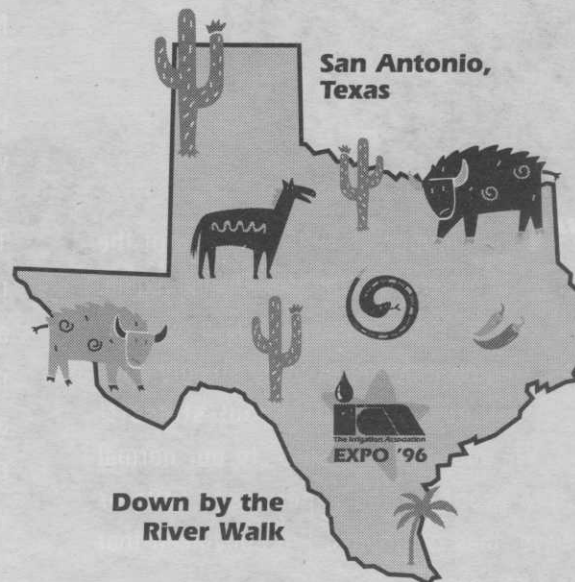
But Dirks said that even though there is some competition, he believes there may soon be more cooperation among buying groups.

"We want to get everybody that's in the green grass industry and collage them together to improve the buying power of all the members," he said. "That's the only way you can compete against the Nevada Bob's."

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Williams named new director at Raven Golf

SCOTTSDALE, Ariz. — Rick Williams has been named the new director of golf operations for Raven Golf, a Scottsdale-based golf course management, ownership and development company.

Williams, who was director of golf for the Raven Golf Club at South Mountain in Phoenix, will oversee golf operations, maintenance, and sales and marketing for all Raven Golf Properties.

Raven, which opened the Raven Golf Club at South Mountain in Phoenix in late 1995 and another Raven club at Sabino Springs in Tucson in January, is looking to explore new markets for upscale, daily-fee golf.

"Rick was instrumental in making the Raven Golf Club at South Mountain one of the top golf courses in Arizona, and his influence will ensure us of providing the same type of exceptional experience at all our new golf courses," said Larry Lippon, owner of Raven Golf. "With the growth of our company, we decided to create the director of golf operations position to ensure a consistent level of quality and excellence at each Raven Golf Club."

Prior to joining Raven, Williams was head pro at Arizona Country Club in Phoenix and at Stonecreek Golf Club in Paradise Valley, Ariz.

LinksCorp inks Nashville deal

NASHVILLE, Tenn. — LinksCorp, Inc., of Northfield, Ill., has bought the Nashboro Village Golf Course, an 18-hole daily-fee 10 miles outside downtown Nashville, Tenn., long considered one of the finer layouts in the area.

"We've been looking to expand our presence in the growing Nashville market," said Ben Blake, chief executive officer of LinksCorp, a national golf course acquisition and management company that owns and manages

18 private, semi-private and public golf facilities nationwide. LinksCorp already owns two facilities in Tennessee — Temple Hills, a private country club in Nashville, and Stonehenge, a top-rated public layout in the Crossville area.

LinksCorp plans several improvements at the 144-acre tree-lined Nashboro Village course, according to Blake. Turf, bunker and drainage work is expected to start in the near future. There are also plans to renovate and improve the clubhouse.

"We plan to immediately make the improvements to the facility and golf course while increasing the level of service to our customers," said Blake. "Our intention is to deliver a high-quality golf course at a good value — in the same manner as we have done at Stonehenge and Temple Hills."

Jersey town agrees to take over VA links

BERNARDS, N.J. — The nine-hole course at Lyons Veterans Affairs Medical Center has been revived thanks to a new agreement with the township.

The Township Committee agreed to manage the Coakley Russo Memorial Golf Course for Lyons. The contract is for one year with the option to renew every two years.

The course, which normally opens in May, was closed until the agreement was reached. Last year, Congress notified VA Hospitals with courses that federal money can't be used to operate them.

It will cost the township \$132,000 a year to run the course, which officials say will come from membership fees. Under the agreement, in-patients at Lyons medical center will still be able to golf for free. Lyons is a 300-acre facility with about 1,000 employees. Maintenance of the course will be handled by Lyons staff.

Wentworth and Brassie sign consulting pact

TAMPA, Fla. — Brassie Golf Corp. recently corrected terms for its management contract for Wentworth Golf Estates.

The duration of the Wentworth consulting contract is one year and contains no profitability incentives. Brassie's previous announcement in May had incorrectly stated the contract was for two years and included profitability incentives.

Brassie Golf Corp. and its Hale Irwin Golf Design division acquire, design, construct, operate and manage courses. Brassie operates facilities in 10 states.

GOLF COURSE NEWS

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Employers must help instill work ethic

By VINCE ALFONSO

In spite of our society's extraordinary efforts to educate its citizens, I wonder sometimes just how well we're doing. Especially, if we focus on how well our educational system is equipping our citizens to enter the work place.

For instance, how well are we doing in the area of instilling a sound and solid work ethic? Now, before you jump to your feet to shout out your answer, let me point out the qualities I think you should find in a person with a sound and solid work ethic. A brief list (not in order of importance) includes integrity, honesty, sensitivity, tenacity, dedication, creativity and loyalty. Now jump up and shout, knock yourself out! Do I hear a resounding "You've got to be kidding?" Now, now, aren't we a little testy today — perhaps even bordering on displaying a little cynicism?

Oh, I see your problem. You think I have unfairly placed this responsibility squarely on the shoulders of an overburdened, underfunded educational system. Well, before we get swept away in a wave of emotion, let's at least acknowledge those voices crying "Foul!" You know, those who feel the qualities of which I speak are more the responsibilities on parents alone in 1996?

Statistics show that in the last 20 years the number of children growing up in homes without a male parent has skyrocketed 70 percent. I am not sure just how much we can expect from a single-parent home. In today's culture, it is tough enough to raise children with two parents. It has to be extraordinarily more difficult with one parent. Let's face it, folks, schools, television, media in general and peer groups have had a lot more influence in shaping the values of our work force than any parent, parents and/or church. I really believe this to be true.

So, what does all of this mean for the employers of the world? I think it means that the number of employees who apply for jobs at your facility, that come to you with even a majority of the qualities I have enumerated, is at best a shrinking pool. Therefore, I believe, employers have to get in the business of helping educate and motivate our employees to become men and women of integrity, honesty, sensitivity, tenacity, dedication, creativity and loyalty. We have to provide a work environment that fosters, acknowledges and encourages development of these qualities.

Now, here comes the hard part. Here is how I propose we get started. Let's look in the mirror. What do we see? Let's take an inventory of ourselves in these areas. How do we (honesty) rate ourselves? I propose we get our own house in order first.

Someone once said, "You can't

give what you don't have." In the Bible, the book of Acts, chapter 3, verses 1 through 10, you find the story of St. Peter healing a man who was lame from birth. The man was a beggar who was placed at the gate each morning to ask for alms. When he asked Peter and John for alms, Peter said, "I have no silver and gold, but I give you what I have; in the name of Jesus of Nazareth, walk." It is a simple thought but oh, how true! How true! We can not give what

we do not have.

I want to challenge you and me as employers to be men and women of character. I want us to be men and women who are in the business of teaching by example. It has to be, "Do as I do, not do as I say." This short, straightforward little story will illustrate it best:

My daddy caught my youngest brother smoking when, I believe, he was a freshman in high school. Dad really laid into him with all of the reasons why he should not

smoke. When he was through, my brother said, "If you'll quit smoking, Dad, I'll quit smoking."

My father stood there in stark silence for what seemed like an eternity to my brother. Then Dad spoke. He said only one word, "Done." They shook hands on it and neither my father nor brother ever smoked again. My daddy was and is a wise man.

If you read this column each month, you are going to find stories to help you get in the business of bringing these qualities out in yourself and in employees. Please feel free to write me to share your stories, so that I can share them with others.

Vince Alfonso Jr. is a past president of the National Golf Course Owners Association and longtime owner of The Rail Golf Course in Springfield, Ill. He recently formed Alfonso Creative Golf Enterprises, Inc., a management consulting firm with special emphasis in promotion, marketing and advertising primarily for daily-fee courses. This is the first of what will become a monthly feature on golf course management issues.

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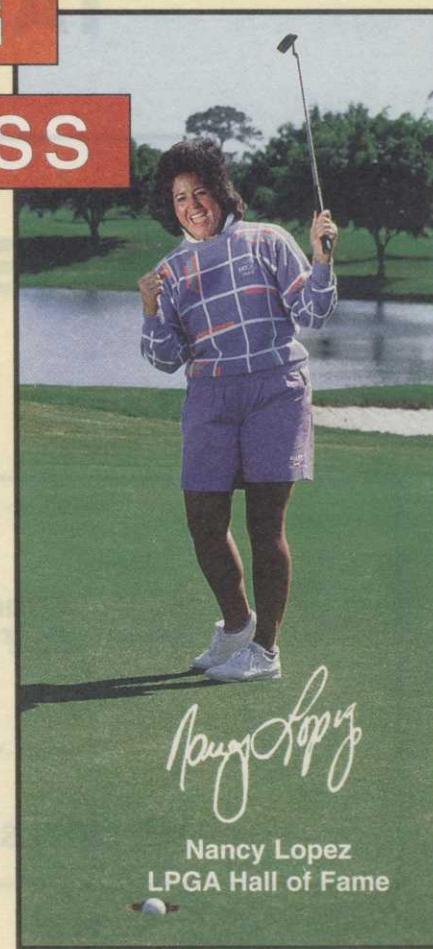
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Nancy Lopez
LPGA Hall of Fame

NGP strikes Myrtle Beach deal with new management firm

SANTA MONICA, Calif. — National Golf Properties Inc. has acquired Colonial Charters Golf Course, an 18-hole resort course in Myrtle Beach, S.C., for \$4 million. Colonial Charters will be leased to The Links Group, a golf course operating company with 10 golf courses under management in the Myrtle Beach market.

NGP, a self-administered real estate investment trust, owns 91 golf courses in 23 states. National's portfolio includes 45 daily-fee, 27 private and 19 resort courses.

"The Links Group is an experienced, high-quality golf course operator," said Richard Price, president of National Golf Properties.

"The cross-marketing opportunities from The Link Group's network of courses along the Grand Strand offer substantial growth potential at Colonial Charters. The Links Group has developed very impressive centralized marketing and reservation systems."

In other news, NGP announced it has issued \$75 million of fixed-rate, unsecured 10-year notes to a group of institutional investors. The money will be used to complete the purchase of 20 courses and other assets from Golf Enterprises Inc. and for other uses, according to Chief Financial Officer Edward Sause. The Golf Enterprises transaction was expected to close in late July.

Chicago Club

Continued from page 1

Chicago Club incurred four years of legal fees during its battle with the Equal Employment Opportunity Commission (EEOC).

"The regulatory industry is still active, even though President Clinton pays lip service to downsizing the federal government. Government agencies are still looking to manipulate local culture and clubs need to be ready."

The EEOC had also targeted nearby Medinah Country Club

before settling on The Chicago Club, a city club, as the subject of this case, according to Elizabeth Kirby Hart, vice president of legal and government relations for the National Club Association.

"The EEOC could target a golf club as easily as a city club," Kirby Hart said.

The EEOC filed the suit against The Chicago Club in 1992. The government agency claimed the club was not a bona fide private membership club exempt from coverage under Title VII of the Civil Rights Act of 1964 and therefore must file an EEO-1 employment profile report describing the background of each employee.

The case was not based on any charge of discrimination "but rather appeared to be an effort by the EEOC to eliminate or at least seriously restrict the private club exemption under Title VII," according to a NCA statement. "This exemption excludes clubs from liability arising from certain employment discrimination claims and various reporting requirements."

The Chicago Club chose to defend itself as a matter of principle and on behalf of other tax-exempt clubs. NCA helped The Chicago Club with its legal costs.

A summary judgment was granted in favor of the club in March 1995 on the basis that the club met the standards of privacy required of a private club. The Equal Employment Opportunity Commission appealed to the United States Court of Appeals for the Seventh Circuit. That body also returned a positive decision for The Chicago Club earlier this summer.

The Court of Appeals criticized the EEOC stating, "If we were to endorse EEOC's eviscerating interpretation of the private club exemption, no organization in the United States could meet the statutory definition of a private membership club."

It continued: "In the hopes of altering the playing field for all private clubs under Title VII, EEOC decided to go after the biggest fish in the pond [The Chicago Club]. In the process, it has diminished its reputation and needlessly squandered both its own resources and those of the federal courts."

Added Singerling: "That's also four years worth of legal fees, money that could have been better spent in the local community rather than federal court."

"The cost of potential litigation is something golf clubs need to know about. Any club that wants to keep its tax-exempt status could be targeted."

Private clubs are still seen as bastions for the rich. The truth is, they provide high wages to minority workers. In fact, they provide the highest wages in the hospitality industry. Other businesses rise and fall. But private clubs are generally stable employers."

GOLF COURSE NEWS

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BRIEFS



VIGORO TAPS RICHBURG IN SOUTH...

WINTER HAVEN, Fla. — Vigoro Professional Products, a division of The Vigoro Corp., has appointed Chris Richburg as territory manager for Arkansas, northern Mississippi, northern Alabama and Memphis. As territory manager, Richburg is responsible for selling the Par Ex line of fertilizers, including Par Ex with V-Cote. Prior to joining Vigoro, Richburg was a sales representative with Sandoz Agro, where he sold chemical products to the golf course, lawn care, greenhouse and nursery markets.



Chris Richburg

... BUT CROSBY WILL HANDLE GEORGIA

WINTER HAVEN, Fla. — Lee Crosby has been appointed a territory manager for Vigoro Professional Products, a division of The Vigoro Corp., covering the Georgia region. Crosby is responsible for selling the Par Ex line of fertilizers, including Par Ex with V-Cote. Prior to joining Vigoro, Crosby was a territory manager with Wesco Turf, where he sold Toro fertilizer products to golf course superintendents in southwest Florida.



Lee Crosby

BEST SAND TURNS TO MERRITT

CHARDON, Ohio — Best Sand Corp. has named Jeff Merritt, an 18-year employee of the firm, its new sales representative for the turf and landscape industry. He will serve the golf course, athletic field construction and sand volleyball markets. In his career with Best Sand, he has worked in the production, dispatch and inside sales departments and served as plant manager at the company's facility in Beaver, Ohio.

BAYER PUTS MONEY WHERE...

RYE, N.Y. — Bayer Corp. has donated \$94,000 to the American Heart Association as part of its annual awareness and fund-raising effort, Strokes Against Stroke. Team Bayer co-captains Tom Kite and Bob Tway helped make the presentation during the Buick Classic held here at Westchester Country Club in June. Bayer donated \$500 for every birdie — a total of 188 — recorded by Team Bayer, which includes Kite, Tway, Dave Stockton, Tom Weiskopf and Dick Rhyne. The \$94,000 donation nearly doubled last year's \$50,000 total.

Because of 'control,' EPA amends label

WASHINGTON, D.C. — BacMan, Emerald Isle's new bacterial management product designed to control excess nutrients in ponds, has been relabeled to comply with EPA regulations.

Prior to its relabeling, Emerald Isle claimed its BacMan product "controlled" algae. Because of the use of the word "control," the U.S. EPA contacted Emerald Isle in May to investigate whether the product was in fact a pesticide that would require EPA registration. The subsequent investigation revealed that BacMan is not a pesticide, and that it is a bioaugmentation product that does not require EPA registration.



Emerald Isle showed that BacMan works by augmenting the pond bacteria that consume excess Nitrogen and other nutrients that might appear in ponds from fertilizer run-off and natural aquatic life cycles. If a pond is overloaded with nutrients, algae may grow out of control.

The new label reads "BacMan — Bacterial Management to Control Excess Nutrients for Clear, Clean Ponds."

...

INDIANAPOLIS — Gallery 75 Dry Flowable pre-emergence herbicide has received interim registration for professional uses in the state of California.

An interim registration for Gallery allows residents of California to obtain the benefits of this weed control product while the remaining requirements for full registration are being completed.

Gallery is a herbicide designed to prevent 95 broadleaf weeds, including the hard-to-control such as dandelion and chickweed, for up to eight months without injury

Continued on page 61



Turf managers past, present and future gather in Racine, Wis.

Virtues of communication preached

By DAVID KRONWALL

RACINE, Wis. — A group of 32 top turf students from colleges and universities around the United States, Canada and New Zealand recently traveled here for Jacobsen's Future Turf Managers Seminar.

The seminar, an annual event hosted by Jacobsen Division of Textron, Inc., aims to bring students together to meet and learn from golf course superintendents and other experts in the industry. Many of the students are graduating seniors, looking for employment or about to take their first post-college job.

"Communication" was the word heard again and again during the presentations. It was stressed as a critical skill for every golf course superintendent today.

David Kronwall is the communications & promotions writer at Jacobsen Division of Textron, Inc.

Where else could we learn so much from so many successful people in the golf industry?

"Regardless of whether you're at a nine-hole course or a 36-hole course," said Bob Vavrek, USGA agronomist, "you've got to learn to communicate... You can get what you want if you communicate it well."

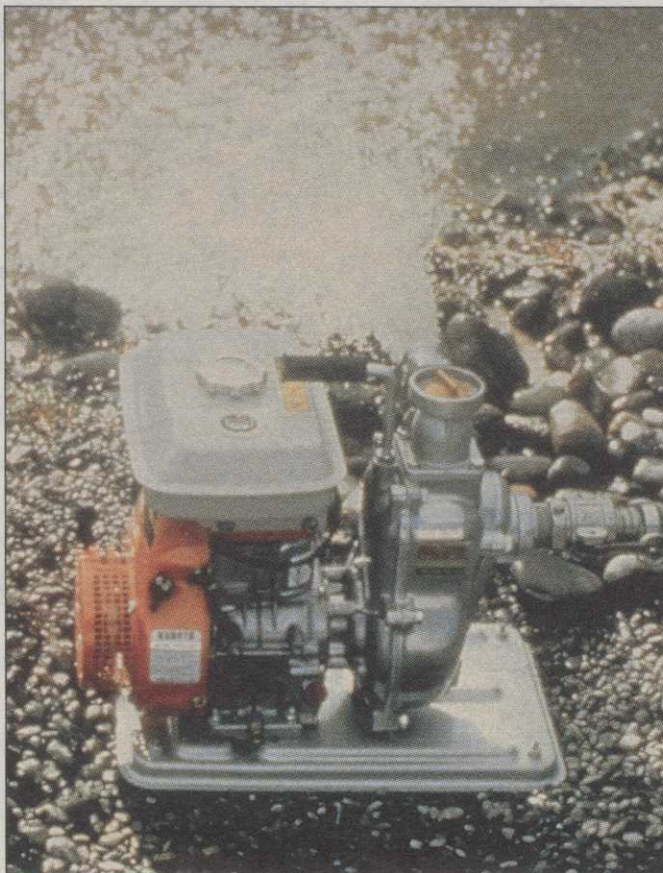
Danny Quast, superintendent at Medinah (Ill.) Country Club, expressed a similar idea. "Your ability to communicate is going to be important in order to survive in the industry," he said. "You'll need to communicate with people working for you and with people you work for."

Darren Davis, superintendent of Olde Florida Golf Club in Naples and

Continued on page 64

NEW PRODUCT OF THE MONTH

Kubota Tractor Corp. has introduced its latest generation of compact, air-cooled gasoline pumps ranging in capacity from 79 to 317 gallons per minute. These portable units are available in self-priming centrifugal models — designed for irrigation, dewatering and insecticide spraying — and self-priming centrifugal trash models designed to handle tough jobs, including removing water containing mud and other solids. For more information on this and other Kubota products, call 310-444-7000.



Florida Turf show makes August debut



TAMPA — Though typically reserved for fall wardrobes, green will be the primary summer color when the Florida Turfgrass Association brings its 44th annual Conference and Show to the Tampa Convention Center, Aug. 23-26.

In honor of the Olympic Games, this year's theme will be "Turfgrass Sports World." With more than 350 exhibitors expected from the United States, Canada and England occupying 400 booths, the show offers a wide selection of displays featuring new products and the latest industry techniques and strategies. Also included will be a three-day schedule of more than 30 workshops and educational sessions covering industry research and development.

The event also includes the 4th Annual Research Fishing Tournament, held Aug. 26 and the Research Golf Tournament, beginning at 8:30 a.m., Aug. 26, at Tampa Palms Golf & Country Club.

Founded in 1952, the FTGA is a non-profit association dedicated to preserv-

Continued on page 62

Scotts acquires exclusive rights to gene gun

MARYSVILLE, Ohio — The Scotts Company has announced a strategic alliance giving it exclusive marketing rights to turfgrass that has been genetically engineered using various technologies, including the biolistic process.

The biolistic process employs a "gene gun" to deliver DNA into turfgrass. Using this technology, Scotts will develop turfgrass varieties with improved characteristics such as resistance to disease, insects, and herbicides. The results will make it easier for turf managers and homeowners to grow healthy, thick turf with less need for insecticides, fungicides, and other treatments.

Scotts and Sanford Scientific, Inc. (SSI) reached a collaborative agreement this past year. John Sanford, Ph.D., principal of the Waterloo, N.Y.-based company, was principal inventor of the gene gun. SSI will work with Scotts to engineer improved turfgrass varieties. Scotts has been preparing a dedicated genetic engineering laboratory to conduct the program at the Dwight G. Scott Research Center here in Marysville. The program will be directed by Lisa Lee, Ph.D., who conducted research on genetic engineering of turfgrasses at the Center for Agricultural Molecular Biology, Cook College, Rutgers University before joining Scotts in December.

Initial work on the program at Scotts was directed by Virgil D. Meier, Ph.D., a 25-year Scotts veteran and one of the country's leading experts in turfgrass variety development. Meier received Scotts' annual John A. Long Excellence in research Award for his contributions in establishing the company's genetic engineering program.

"We are extremely excited about using this technology for genetic engineering of turfgrasses," said John Neal, Ph.D., vice president, Scotts Research and Development. "Employing genetic engineering in our program will allow our researchers to add desirable traits as well as speed up the process of turfgrass variety development."

With genetic engineering, it should take about half of the time previously required to create and market genetically improved turfgrass. This accelerated process should take only about seven years, compared to the 12 to 15 years previously required. In addition to introducing new traits into the plant varieties, this timetable also includes testing the new traits, followed by seed production for commercial release.

In her research at Rutgers University, Lee used the gene gun to conduct non-commercial genetic engineering of bentgrass. The Rutgers research team was successful in making a bentgrass variety resistant to a

widely used weed control product. That makes it possible to selectively control broadleaf weeds and grassy weeds, or even another turfgrass, without affecting the desirable turfgrass.

...
Virgil D. Meier, Ph.D., of The Scotts Co. recently received the John A. Long Excellence in Research Award.

The peer-nominated award was presented at Scotts' annual research and Development awards banquet. The award acknowledges Meier's outstanding contributions in the field of turfgrass variety development,

including his work in establishing the company's genetic engineering program.

...
Carlos Reyes and Charles Wise received scholarships from the O.M. Scott/Golf Course Superintendents Association of America (GCSAA) Scholarship Program. They were each awarded \$2,500. As part of the scholarship program and selection process both Reyes and Wise served as 1995 summer interns with Scotts.

Reyes, majoring in golf course management at the University

Continued on page 63

Luper joins Golf Ventures sales team

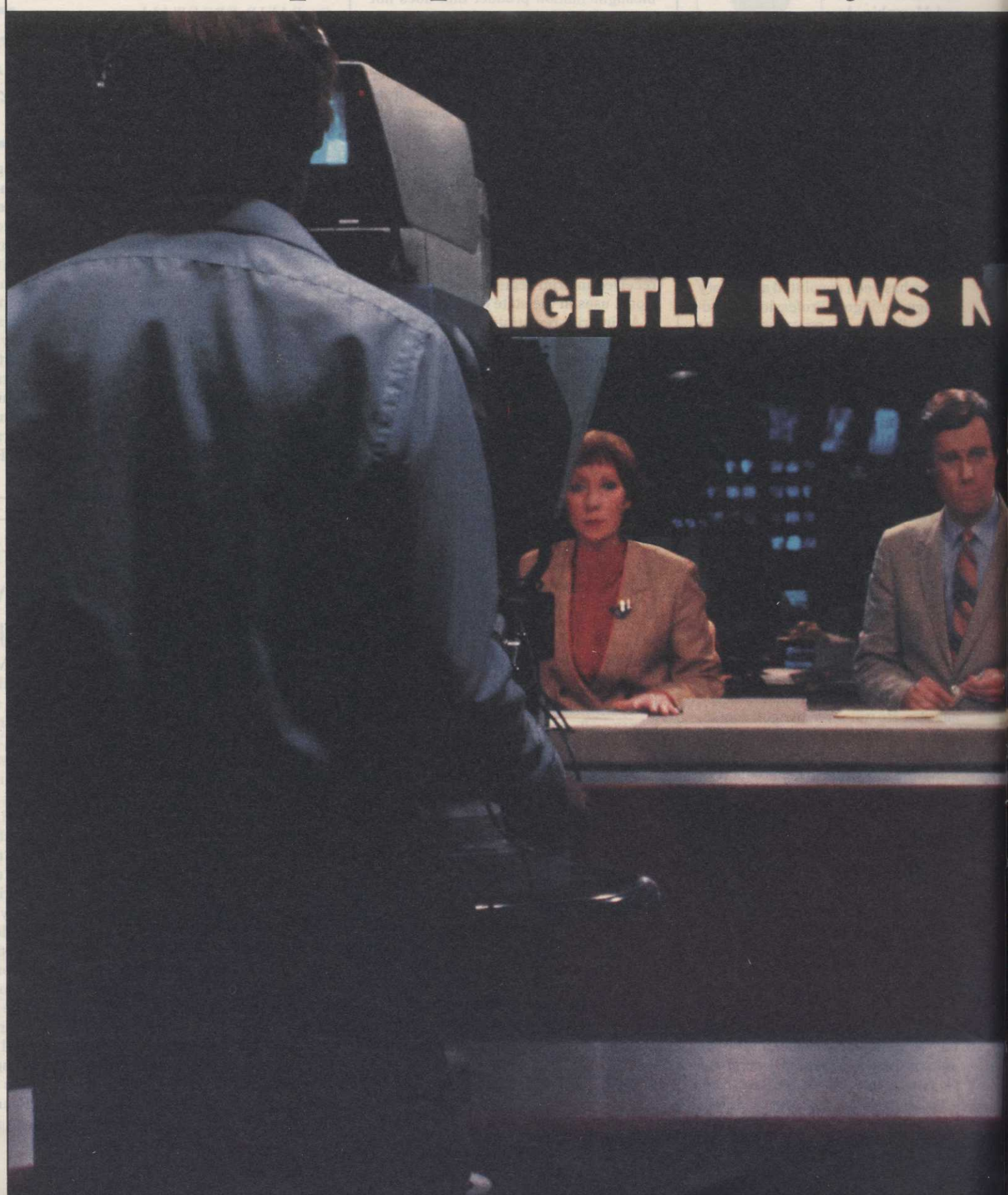
LAKELAND, Fla. — John Luper has joined Golf Ventures, Inc. as territory manager for West Central Florida, where he will supply superintendents in a four-county area with agronomic advice and turf products from the Golf Ventures line.

A Certified Golf Course Superintendent, Luper was most recently employed as southeast sales manager for GreenTurf International, exclusive distributor for the water quality product pHair-

way. However, Luper has held a number of golf course positions. From 1983-90, he worked at Bardmoor Country Club in Largo, progressing from golf course superintendent to general manager.

At Bardmoor he was also responsible for overseeing construction of the Tom Fazio-designed Bayou Club course. Prior to joining Bardmoor, Luper was superintendent at a pair of Clearwater country clubs, Countryside and Clearwater.

We'll keep the pesticide industry from



Walther to head new UHS division

BRYAN, Texas — United Horticultural Supply (UHS) has created a Southern Division, completing the firm's service coverage of the nation's professional turf, golf course, lawn care, nursery and specialty horticultural markets, according to UHS President Bert Eddins.

John Walther, current national product manager, has been named manager of the new division that encompasses New Mexico, Texas, Louisiana, Arkansas and Mississippi.

Headquartered here in the Southwest, the UHS Southern Division will "provide this region's

customers better access to the high quality products and services that UHS has become recognized for around the country," said Walther.

"This expansion," he continued, "allows UHS to bring this market highly qualified national and regional technical personnel with expertise and experience in the golf and horticultural industries, which is a key UHS philosophy and a major part of our overall strategic plan."

For more information on the new UHS division or any UHS product or service, call 1-800-847-6417.

Soil Tech Corp. teams with Mole-Med

FAIRFIELD, Iowa — Soil Technologies Corp. has signed an agreement with Mole-Med, Inc. to begin national distribution of Mole-Med's exclusive product for repelling moles from turf areas. Soil Tech will be the exclusive distributor of Mole-Med to golf courses in the U.S., Japan, England and South Africa.

Mole-Med is registered with the Environmental Protection Agency and has been tested at Michigan State Uni-

versity. According to Dr. Glen R. Sudderar, who tested the product on 17 sites: "Mole-Med effectively eliminated the visible surface tunneling of Eastern moles in all lawns tested."

"Based on this evidence, I believe Mole-Med to be very effective in preventing mole damage."

For more information on Mole-Med and other Soil Technologies products, call Sales Manager Steve Nichols at 1-800-221-7645.



EPA okays...

Continued from page 59

to existing broadleaf or grass landscape species. In addition, applications of Gallery can be made over the top of 440 ornamental plants. The unique action of Gallery helps applicators avoid fighting broadleaf weeds postemergently, which can be costly, time-consuming and labor-intensive.

An interim registration is granted to applicant products that have three or fewer data requirements left to submit to the California Environmental Protection Agency Department of Pesticide Regulation. A company has approximately three years to submit this additional research data, and only pesticides already registered with the U.S. Environmental Protection Agency may apply for interim registration within California.

Members of the State Regulatory Commission of California grant interim registrations upon deciding that using the compound results in a net benefit to the state.

...

GREENSBORO, N.C. — **Subdue MAXX**, a new formulation designed to provide disease protection at half the recommended rate of the original Subdue fungicide, has received registration by the Environmental Protection Agency. According to Ciba Turf & Ornamental Products, the manufacturer of Subdue, the new formulation will be introduced to the market in 1997, eventually replacing all the current Subdue formulations.

Subdue MAXX features a new active ingredient, mefenoxam, that is twice as active as metalaxyl, the active ingredient currently in Subdue. Mefenoxam is an isomer of metalaxyl and a more biologically active chemical compound. As a result, Subdue MAXX application rates are half those currently recommended for Subdue.

Lower application rates of Subdue MAXX will reduce levels of inert materials that are put into the environment and decrease the amount of product handled, transported and stored, and fewer containers will require disposal. Subdue MAXX will be formulated as a microemulsion concentrate (MC), a wettable powder in water-soluble pouches (WSP) and a granular (GR) formulation.

The new MC formulation, which will replace the emulsifiable concentrate formulation, is a clear, ultra-stable liquid, that mixes completely with water. It eliminates the use of petroleum solvents that act as a carrier in other fungicide formulations. As a result, Subdue MAXX MC has little odor and will not clog filters and screens, or settle to the bottom of the spray tank. And as a true liquid, the MC formulation will not crystallize.

becoming a victim of air pollution.



Ahh, television news in the 90s.

Tabloid journalism has sneaked its way onto the airwaves. And the pursuit of facts seems to have been replaced by the pursuit of ratings.

So the specialty pesticide industry needs a media watchdog that not only watches. But that also takes action.

Fortunately, we have one.

RISE. Responsible Industry for a Sound Environment.

RISE is a coalition of manufacturers, formulators and distributors from all areas of the specialty pesticide business.

In addition to promoting environmental stewardship, RISE makes sure the media doesn't report misinformation as fact.

We also hold editorial meetings with media decision-makers. And respond to negative articles or broadcasts that are incorrect. We've been very successful so far. Not surprising considering what our most powerful weapon is.

The truth.

Of course, there's still a lot more work to do. But rest assured, RISE is up to the task.

Because we know if we eliminate air pollution, the pesticide industry can breathe a lot easier.



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Jacklin names Stoesser CFO; Ledebor joins Grower Services

POST FALLS, Idaho — Tom Stoesser has been promoted to chief financial officer of Jacklin Seed Co.

As CFO, Stoesser will manage all financial functions for Jacklin Seed Company and all related entities. Stoesser is also a member of Jacklin Seed Company's Executive Committee. Stoesser has been with Jacklin Seed Company since 1984. He is a member of the American Institute of Certified Public Accountants, Washington Society of Certified Public Accountants and Idaho Society of Certified Public Accountants and is a graduate



Tom Stoesser

of Purdue University American Seed Trade Association Management Academy.

... In other Jacklin news, Kevin Becar has been promoted to controller of Jacklin Seed Co. As control-

ler, Becar will be responsible for the supervision of the Jacklin Accounting Department, which handles the accounting for the various Jacklin entities. Prior to joining Jacklin Seed in 1994, Becar was the Controller for Merritt Brothers Lum-



Hagen Ledebor

ber Company and the T&H Group in Athol, Idaho and an auditor for Deloitte & Touche in Boise, Idaho.

... Hagen Ledebor has joined Jacklin Seed Co. as the Manager of Grower Services Operations in Oregon.

Ledebor will be responsible for managing all aspects of contracting and placement of Jacklin varieties in the Willamette Valley of Oregon. Prior to coming to Jacklin Seed Co., Ledebor was the farm manager and custom applicator for Ledebor Farms LLC., a limited

liability company. His responsibilities included management of grass seed production and custom application of crops aids for numerous customers.

... Jacklin has also announced it is the recipient of the 1996 Idaho Governor's Export Marketing Award for Service.

The award was presented by Lieutenant Governor Butch Otter at the World Trade Day in Boise, Idaho earlier this summer. There to receive the award were two members of Jacklin's International marketing Department, Matt Emmons and Chris Claypool, as well as Marilyn Deutsch, who has been with Jacklin Seed Co. for 18 years. Jacklin first received an Idaho Export Award in 1984.

Golf Asia team organizes India trade mission

SINGAPORE — Golf Asia Exhibitions (GAE), organizer of the annual Golf Asia trade show and conference here, has organized a trade excursion to India's capital city, New Delhi, Sept. 26-29.

With more than 20 new golf course projects in various stages of development and more on the drawing board, India stands as Asia-Pacific's next hot market. An emerging middle class also pegs India, the world's second most populous nation, as a strong, long-term golf development venue.

While a full-scale exhibition is not yet warranted, GAE will conduct a four-day trade mission during which suppliers will meet with key developers, managers, professionals and government representatives. There will also be a two-day exhibition where suppliers will showcase the products and service they have to offer.

On Thursday the 26th, at New Delhi's Taj Palace Hotel, the event will begin with an exhibitor dialogue session with government officials. The next day suppliers will meet with golf professionals, developers and manager. The final two days are set aside for the exhibition. For more information on the trade mission, contact GAE here at 65-296-6961; or fax 65-293-5628.

Fla. Turf Show

Continued from page 59

ing environmental resources through research and education. Among the FTGA's major accomplishments are the construction of the state-of-the-art Envirotron turfgrass research facility at the University of Florida and the development of FloraTeX®—a low maintenance Bermuda-grass requiring minimal water and fertilizer.

For information regarding the FTGA Conference and Show or the association, contact Stacy Lee Funk at 800-882-6721.

GOLF COURSE NEWS



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There's never been a faster, better, easier way to top dress greens!

Now you can turn your Toro or Jacobsen greens mower into the finest top dress brushing system ever invented, with FLEXBRUSH from Standard Golf.

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CIRCLE #148

Patent Pending

Strong first-half numbers turned in by Ransomes

LINCOLN, Neb. — Ransomes plc has released its half-year sales and profit results for fiscal 1996. The firm also announced that it has resumed dividend payments on common shares.

Halfway through fiscal 1996 (as of March 30), Ransomes' operating profit increased 8.1 percent to \$17.4. Pre-tax profits advanced from \$7.4 million to \$9.9 million over this time last year. Other highlights of the report include:

- An interim dividend was declared .05 cent per common share, the first payment of its kind since 1991. The dividend, which will be paid on Sept. 2, was promised as part of a rights issue announced last December.

- Turnover is up 10.1 percent, or \$14 million, at \$153 million (1995: \$139 million).

- Dividend payments on convertible preferred shares are up to date.

- Earnings per share increased from one to three cents.

"I am pleased to report that the confidence shown by our shareholders in supporting the rights issue in January has been justified by a continued and substantial improvement in both sales and profits," said John Clement, chairman of Ransomes plc. "This has been achieved despite a slow start to the grass-cutting season in Europe and North America because of the exceptionally long winter."

Scotts scholarships

Continued from page 60

of Maryland's Institute of Applied Agriculture, is employed at Indian Springs Country Club. He has received scholarships from the Maryland Turf Council and is a member of the Mid-Atlantic Association of Golf Course Superintendents.

A graduate of Oklahoma State University, Wise holds a degree in horticulture/turf management. Currently with the Shawnee Country Club grounds crew, he was previously a four-year member of the Firelake Golf Course grounds crew. Wise is a member of GCSAA and the Oklahoma Golf Course Superintendents Association of America's Agronomy Club.

The scholarship committee has selected five finalists for the 1996 program. Each individual will complete a summer internship and will be considered for a scholarship later in the year.

The finalists are Carrie Mescher of Iowa State University, Donna Catrambone of Lake City Community College, Whitney Elmore of Western Kentucky University, Terry Pasadore of University of the Pacific, and Christopher Carter of Colorado State University.

GOLF COURSE NEWS

Century Rain Aid names sales reps for Carolinas & Florida

CHARLOTTE, N.C. — The building boom in this area has prompted Century Rain Aid, one of the largest U.S. distributors of landscape irrigation equipment, to add David Bush of Pineville as area outside sales representative.

Bush will work out of Century's branch at 4205 Golf Acres Dr., Charlotte, under the direction of Branch Walt Summerville. Reachable at 704-398-7344, Bush will call on professional irrigation contractors within a 50- to 75-mile radius of Charlotte. Century also has a branch in Raleigh. The branch distributes Hunter, Hardie, Vista and some 60 more of the most prominent equipment lines in landscape

irrigation, fountains and landscape lighting. It is also the exclusive distributor of Legacy Golf irrigation systems for western North Carolina and much of South Carolina.

In other Century news, David Lukach has been named the firm's first full-time golf irrigation sales rep covering central Florida. Lukach will work from the Century branch here, located at 485 West 27th St.

Lukach can be reached by phone at 407-839-3771; or by pager at 407-899-2542. A second generation irrigation contractor, Lukach owned his own firm here, County Irrigation & Landscape Lighting, Inc. for six years.

VERMEER NAMES NEW PRODUCT DEMONSTRATOR

PELLA, Iowa — Nathan Wallace has been named tree product demonstrator for Vermeer Manufacturing Co. In his new capacity, Wallace will perform tree equipment demonstrations for dealers and customers around the country. Prior to joining Vermeer Manufacturing as a product demonstrator supervising the planning and presentation of tree products, Wallace served nearly 10 years as an officer in the U.S. Army. Wallace can be reached by calling 1-800-829-0051.



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CIRCLE #149

Cyanamid adds pair to sales staff

WAYNE, N.J. — Citing strong sales from its firm's professional turf, ornamental and pest-control products, American Cyanamid Co. has announced two additions to its sales staff.

Roger Bechle has been named Northeast territory manager for turf, ornamental and pest control products. His territory includes all six New England states, New Jersey, New York and Pennsylvania.

Bechle was formerly a sales manager for LESCO in Mahwah.

Also, Bart Fox has been named territory manager for turf, ornamental and pest control products in Arizona, New Mexico, Texas, Oklahoma, Arkansas, Louisiana and Mississippi.

Fox was formerly a sales representative in the turf specialty market for BWI in Texarkana, Texas.

Communication

Continued from page 59

the 1996 national winner of the GCSAA's Environmental Steward Award, emphasized the need for communication at all levels.

"As a superintendent, there are many things you'll do," he said. "You'll deal with people, you'll deal with members, you'll deal with regulators like OSHA and with Mother Nature." Davis emphasized that being a superintendent is a tough job, and communication and education were essential.

The need for communication when working with budgets was a point stressed by Scott Woodhead, superintendent of Valley View Golf Club in Bozeman, Mont. "The ability to put that budget together in a form that the layman, the banker, the construction worker can understand, and then be able to present it to them in an oral fashion, can make or break whether you'll get what you want," he said.

The students themselves had strong feelings about communication. "One of the best parts of the future turf managers semi-

nar is meeting different people from around the country and talking about the interesting things they've experienced," said Clay Craft, a senior at the University of Maryland.

"It's really great for making contacts and staying in touch with other people in the field," he added.

Jodie Hale, a senior from California State Polytechnic University, and Martin Jordan, a graduate of New Mexico State University, found themselves "networking" during the seminar. The goal: employment. Hale was moving from one job to another and Jordan was looking for a job. Hale provided Jordan with a number of contacts that might be useful in his search.

"Whether it's him passing on my phone number or me passing on his, it's all the same," Hale said. "We're here to help each other."

Hale talked about why he wanted to be a golf course superintendent. "It's the people and the friendships," he said. "I have full confidence that even with the smallest problem I could call someone in, say, North Carolina, and I'd have the help of the whole industry."

In addition to Vavrek, Quast, Davis and Woodhead, the students also heard from Quinton Johnson, director of golf purchasing at Club Corp. of America in Dallas, Texas, and Tommy Witt, superintendent at Wynstone Golf Club in North Barrington, Ill.

One highlight was the panel discussion where students asked the speakers questions and solicited their opinions about golf course industry issues.

A "hands-on" field day at Racine Country Club provided an opportunity for students to operate a variety of Jacobsen mowing equipment. Superintendent Mike Handrich was also joined by superintendents Scott Bartosh of Kenosha Country Club and Ric Lange of Meadowbrook Country Club for an informal question-and-answer session with the students.

The keynote address on the final evening was delivered by Bruce Williams, CGSAA president and superintendent of Bob O'Link Golf Club in Highland Park, Ill. He urged the students to develop relationships within the industry and with associations, manufacturers, distributors and other superintendents. He also stressed the need to communicate.

"It's important," he said, "to tell your story to people, rather than having the chef or the pro tell your story."

The seminar and what it meant to all who participated may best have been summed up by a comment overheard following the panel discussion. "This is so terrific," said one student. "Where else could we learn so much from so many successful people in the golf industry? I'll never forget it."

GOLF COURSE NEWS

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September '96	Winter Prep: Aerators, Top-Dressers & Overseeders	Ad close: 8/12/96 Materials: 8/14/96
October '96	Safety by Design: Design, Construction & Liability	Ad close: 9/9/96 Materials: 9/11/96
November '96	Special Issue: 1996 Golf Course Expo	Ad close: 10/15/96 Materials: 10/17/96
December '96	Special Issue: 1997 Buyer's Guide	Ad close: 11/4/96 Materials: 11/11/96
January '97	Spring Prep GCSAA Pre-Show Issue	Ad close: 12/16/96 Materials: 12/18/96
February '97	GCSAA Show Issue: Complete Show Coverage	Ad close: 1/13/97 Materials: 1/15/97
March '97	Mower Update: What's New in the Marketplace?	Ad close: 2/10/97 Materials: 2/12/97
April '97	Special Report: Management Companies & Consultants	Ad close: 3/17/97 Materials: 3/19/97
May '97	Special Report: Water & Waste Water Management	Ad close: 4/14/97 Materials: 4/16/97
June '97	Summer Stress: Beating the Heat	Ad close: 5/12/97 Materials: 5/14/97
July '97	Seed Update: Buffaloes & Blues	Ad close: 6/16/97 Materials: 6/18/97
August '97	H2O Report: Irrigation & Pumping Stations	Ad close: 7/14/97 Materials: 7/16/97
September '97	Winter Prep: Aerators, Top-Dressers & Overseeders	Ad close: 8/11/97 Materials: 8/13/97
October '97	Special Issue: Public Golf Forum	Ad close: 9/15/97 Materials: 9/17/97
November '97	Safety by Design: Planning, Construction & Liability	Ad close: 10/14/97 Materials: 10/16/97
December '97	Special Issue: 1998 Buyer's Guide	Ad close: 11/10/97 Materials: 11/12/97

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Haul Master unveils Huskie UTV

The new Huskie utility vehicle by Haul Master, Inc. is effective in any environment and carries a 1,000-pound dump-box capacity, the largest in its class.

Huskie is portable enough to fit in a standard pickup bed for transport to job sites. A short turning radius and four-cycle, air-cooled 16 hp Briggs & Stratton engine hauls heavy-duty loads over any terrain. A 9-1/2-inch ground clearance and transaxle drive with full differential and differential lock prevent lugging and shifting in muddy fields and rocky terrain. An automatic torque converter sustains power and speed. For more information, telephone 800-848-HAUL, or 815-539-9371.

CIRCLE #308

MarkSmart signs touted for flexibility

Unmatched flexibility is the principal advantage offered by the new line of MarkSmart golf course markers. Made of high-density, UV-stabilized materials, the signs are offered with an ABS stake or the patented ground socket system, developed by Markers Inc.

The Cart signs are shipped to the user without an installed directional arrow. The arrow is installed by the user to indicate desired action (move right, move left, or scatter). Additionally, a swivel capability allows for positioning the sign component at any angle, for advanced warning of hills. Another flexibility offered by the MarkSmart signs is the option of installing a rope clip in the sign upright. Consult a Markers Inc. distributor for further information, or call 1-800-969-5920.

CIRCLE #310

Scotts now offers Jet Spray Weed Control

The Scotts Co. is selling the new Jet-Spray 3-Way Weed Control for convenient and highly effective spot treatment. Packaged in ready-to-use aerosol cans, Jet-Spray provides broad-spectrum broadleaf weed control on cool and warm-season turf.

Jet-Spray subdues more than 130 broadleaf weeds including chickweed, clover, dandelion and plantain. Most weeds will be killed after a single application, with broadleaf weeds beginning to show visible signs of leaf curl within a few days.

Jet-Spray's foaming action makes it easy to see application coverage. Further application information is listed on the product label. A toll-free number (800-543-0006) has also been established for organizations to ask Scotts technical questions or seek advice specific to the needs of their fields.

CIRCLE #309

GOLF COURSE NEWS

NIOSH approves Kasco helmets

The National Institute of Occupational Safety and Health (NIOSH) has approved two Kasco helmets to be used for protection against pesticide sprays.

The Kasco T-8 and Kasco T-9 air-purifying helmets can now be used in operations for protection against pesticides that require the use of a NIOSH TC-23C type respirator. They can also be used for protection against organic vapors, dusts,

mists and fumes.

The Kasco T-9 is powered by a tractor's 12-volt electrical system through a 6-foot power cable. The Kasco T-8 uses a 6-volt battery that provides four hours of operation before it needs to be recharged. An optional 12-volt converter is also available.

For more information, contact Gempler's, Inc. at 1-800-383-8473, Fax: 800-551-1128.

CIRCLE #306

Compsoil now available to courses

The largest yardwaste composting company in Illinois has developed a high-quality, nutrient-rich compost called Compsoil that can now be used on golf courses.

"Golf course managers can now enjoy the same benefits from this natural soil-enhancer product that nurseries, landscapers and gardeners have been successfully using for years," said Jim Cowhey Jr., vice president/operations of Land and Lakes Co.

Compsoil has been proven superior for planting and seed

growth and is an attractive alternative to black dirt. Derived from only grass, leaves and yardwaste, Compsoil meets all the performance standards for General Use Compost as defined by the IEPA.

Land and Lakes Co. operates six yardwaste composting facilities in Illinois and was granted one of the first composting permits in the state.

Anyone interested in obtaining a free brochure and sample of Compsoil may contact Land and Lakes Co. at 847-825-5000.

CIRCLE #307



If Your Turf Looks More Like a Science Project Than a Professionally Managed Resource, Maybe We Should Talk.

As a professional, you know turfgrass can be affected by hundreds of different things. From diseases, molds and fungi to climate, water, shade and sunshine. That's why it pays to start with **Eclipse** Kentucky Bluegrass. Shade tolerant, disease resistant and great looking, **Eclipse** makes an excellent seed and sod base for golf courses,

sports turf, parks and commercial and residential lawns. And though **Eclipse** has been performing in the field for years, it's always a leader in trial data, too.

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CIRCLE #151



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The Green Seal marks Eclipse as a world premium turfgrass variety.



GrassCraft offers 4-cycle engine

After six months of extensive testing, GrassCraft Corp. has introduced the world's only production, 4-cycle, oil-pumped hover mower.

Weighing only 32 pounds with a cutting width of 19 inches, the 4-cycle is lighter, stronger, quieter and environmentally sensitive. This new product also meets future emission standards. The new 4-cycle has an oil pump which creates positive lubrication when mowing bunkers or inclines. Another important design feature places the oil reservoir toward the front of the mower, away from the operator. When the mower is pushed down a bank, for example, the oil flows into the reservoir keeping the engine lubricated.

GrassCraft has also developed a new disc-cutter system which features three high-impact nylon cutting blades attached to a 12-inch aluminum disc. The disc is simply mounted under the impeller and can be easily adjusted to change cutting height.

For more information, contact GrassCraft at 1-800-760-1680.

CIRCLE #301

Comfort the key to Maximum Seating

A new bench system from Maximum Seating has been released — an elegantly styled, variable-length public seating system. Designed by Jerry Adamson of Toronto, its manufacturer proclaims it as "probably the most comfortable public bench you have ever sat on." With gracefully curved ribs and a minimalist frame, it is durable and adapts to almost any environment.

Maximum Seating benches are available in two rib styles; Occasional Scale for brief sitting and Lounge Scale when a longer sit is anticipated. Two rib components make up the seat system (with and without arms). An advantage of the unique variable-length frame is that the modular arm ribs can be inserted at any interval the desired. Standard six rib units produce a 18-inch-wide Occasional Scale seat and a 21-inch-wide Lounge Scale seat. Ribs are made of high-impact, UV-stabilized polypropylene, with resins that resist graffiti and vandals.

The frames are available in either powder-coated steel, or brushed stainless steel. Standard bench sizes are stock items, but many planners request custom sizing for only a modest up charge. Contact Maximum Seating at 1-800-825-5085.

CIRCLE #302



YAMAHA REACHES PRODUCTION MILESTONE

The 250,000th golf car to be produced at the Yamaha Motor Manufacturing Corp. plant in Newnan, Ga., rolled off the production line at approximately 11:30 a.m. on Wednesday, June 26. After passing quality assurance testing, the car was driven to the lobby of Yamaha USA's corporate headquarters, where it will remain on display. Steve Kato, president of Yamaha Motor Manufacturing, presented employees with brass mantle clocks in appreciation of their efforts. In his address to them, Kato said: Because of your dedication and commitment to excellence, this plant has produced the most advanced products in their industries at a rate which has exceeded expectation. For this, you are to be commended.

Do-it-yourself: Ballwasher repair

E-Z Ballwasher Repair, a company founded by a golf course mechanic in Hawley, Pa., has made available a kit designed specifically to repair broken, aluminum-cast ballwashers. The kit retails for \$9.95.

The repair kit targets the area where the set screw meets the cast aluminum — an area that can crack after significant wear. Using several items found in most machine shops — Bondo, cutting disk or torch, a sharp chisel and a spray-paint cap — the kit can guide anyone through the 6-step repair process. This product is guaranteed and comes with detailed instructions. For more information or technical service, call 1-800-892-0171.

CIRCLE #303

Germinator aids grow-in process

The Germinator, a polymer product, has been introduced by WMC Products, Inc.

This product reportedly ensures a complete grow-in after seeding the first time, allowing the user to seed in areas that have not been economical in the past. It prevents seed loss due to wind, rain, birds and animals, is not hazardous and has a neutral pH. The product forms a crust that prevents seed migration on slopes and other areas where seeding is difficult due to the elements. It promotes accelerated germination by minimizing water and heat loss through evaporation, thereby keeping the media and seeds below the crust moist and warm.

Contact WMC Products, Inc., 1213 Patricia Lane, Garland, Tex. 75042; telephone 214-494-3494.

CIRCLE #304

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CIRCLE #153

Lebanon unveils IsoTek³¹

Lebanon Turf Products, a division of Lebanon Seaboard Corp., has introduced IsoTek³¹, a homogeneous fertilizer line with isobutylidene diurea.

IsoTek³¹ will offer superintendents one of the most popular nitrogen sources in a complete line of homogeneous granular turf products. The initial product line will include both greens grade and fairway grade fertilizers, along with pre-emergent combination products.

"For the first time," said Paul Grosh, director of sales and marketing, "golf course superintendents will be able to use one of the most reliable, controlled-release nitrogen sources in a true homogeneous formulation."

IsoTek³¹ will be available through Lebanon Turf's national distributor network beginning Aug. 1. For more information, contact Lebanon Seaboard 1-800-233-0628.

CIRCLE #305

Golf Course Marketplace

To reserve space in this section, call Diana Costello-Lee at 207-846-0600

EMPLOYMENT OPPORTUNITIES

GOLF COURSE CONSTRUCTION

PROJECT MANAGER: Successful candidate will have a minimum of five years experience, and will be directly responsible for estimating, client development, and project management with well structured Northeast regional oriented company. Some travel required. Excellent growth potential and benefits are available for qualified applicants. Qualified candidates will possess a strong employment background with a high level of communication, interpersonal, and organizational skills.

SHAPER: Min. 5 yrs experience, with emphasis on renovation work. Some travel required. Please fax or send resume to **ELM, PO Box 110322, Stamford, CT 06911-0322, Fax # 203-316-5433.**

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Crown Golf Construction is currently seeking qualified and experienced Superintendents, Shapers, Irrigation Specialists and Finish Operators. Mail or fax resume to: **Crown Golf Construction, Attn: Robert Steele, Sr. Vice Pres., 3100 Dundee Rd, Suite 102, Northbrook IL 60062. Ph: 847-205-1322 Fax: 847-498-0470.**

SHAPERS WANTED

Golf Course Construction Shapers Needed. Must be willing to travel. **Fax resume and date available to 616-547-7009.**

WANTED

Experienced supervisors, shapers, finishers, and drainage installers. Primary work in PA, WV, VA, OH. Must travel. Send resume to: **Aspen Corporation, PO Box 737, Daniels, WV 25832. Phone: 304-763-4573, Fax: 304-763-4591**

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Excellent long-term opportunities with fast growing Golf Course Construction Company. Seeking Shapers, Operators and Irrigators. Immediate positions available for projects in Arizona & Palm Desert, South Dakota (Kevin Costner-Dunbar). **Fax resume to: Park West Golf, Inc. (714)858-7169.**

GOLF COURSE CONSTRUCTION

experienced golf course construction superintendents, irrigation installers, heavy equipment operators, shapers, and finishers needed. Fax resume with references to **Rausch Golf Inc. (915)784-5332.**

EMPLOYMENT OPPORTUNITIES

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A leader in the pumping systems industry is searching for a dedicated sales person to cover a territory consisting of North Carolina, South Carolina and Georgia. This person must have high values, a proven record of successes, have excellent communication skills, and be highly motivated.

Qualifications required include an Associates Degree or equivalent experience, an irrigation background, a working knowledge of the construction industry, and strong computer skills. An understanding of the golf market as it relates to manufacturing and the ability to size and quote pumps and motors is desired.

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For more information, call Diana Costello-Lee at (207)846-0600.

CALENDAR

August

5-6 — *Golf Course Environmental Considerations at Harvard University Graduate School of Design in Boston.* Contact Office of Development and External Operations at 617-495-1680.20 — *Wisconsin Turfgrass Field Day in Madison.* Contact Audra Anderson at 608-845-6536.

7-8 — *Golf/Residential Site Planning at Harvard University Graduate School of Design in Boston.* Contact Office of Development and External Operations at 617-495-1680.

7-8 — *Penn State Turfgrass Field Days in University Park, Pa.* Contact Pennsylvania Turfgrass Council at 814-863-3475.

9-10 — *Golf Clubhouse Design and Site Planning at Harvard University Graduate School of Design in Boston.* Contact Office of Development and External Operations at 617-495-1680.

13 — *GCSAA Seminar on Safety Devices and Regulations in Honolulu.* *

14 — *Turf Talk '96 in Chandler, Ariz.* Contact Garden West at 602-233-2966.

20 — *Wisconsin Turfgrass Field Day in Madison, Wis.* Contact 608-845-6536.

20-24 — *American Association of Nurserymen Conference in Portland, Ore.* Contact 202-789-2900.

23-26 — *Florida Turfgrass Association Annual Conference and Show in Tampa, Fla.* Contact 800-882-6721.

28 — *Ohio Turfgrass Foundation Field Day in Columbus.* Contact Julie Weller at 614-261-6750.

29 — *GCSAA Seminar on The Microbiology of Turfgrass Soils in Austin, Texas.* *

September

4-8 — *Responsible Industry for a Sound Environment Annual Meeting in West Palm Beach, Fla.* Contact RISE at 202-872-3860.

5 — *GCSAA Seminar on Reclaimed Water Irrigation in Phoenix, Ariz.* *

5-6 — *Southwest Horticultural Trade Show in Phoenix.* Contact 602-966-1610.

7 — *GCSAA Seminar on Human Resource Management in Sacramento, Calif.* *

12-15 — *American Society of Irrigation Consultants Annual Conference in Pleasanton, Calif.* Contact Wanda Sarsfeld at 510-516-1124.

13 — *GCSAA Seminar on Maximizing Turfgrass Disease Control in Galena, Ill.* *

16-18 — *Virginia Turf and Landscape Field Days in Blacksburg.* Contact David Chalmers at 540-231-5897.

18 — *GCSAA Seminar on Wildlife Management and Habitat Conservation in Sacramento, Calif.* *

19 — *GCSAA Seminar on Wetlands and Golf Courses in Seattle.* *

October

7 — *Ohio Turfgrass Foundation Golf Tournament in Centerville.* Contact Julie Weller at 614-261-6750.

8 — *GCSAA Seminar on Personal Stress Management in Oklahoma City.* *

8-9 — *West Texas Turfgrass Conference Trade Show in Snyder.*

9 — *GCSAA Seminar on The Microbiology of Turfgrass Soils in Billings, Mont.* *

11 — *GCSAA Seminar on Integrated Disease Management for bermudagrass golf courses.* *

17 — *GCSAA Seminar on Calibration and Safety of Pesticide Application Equipment in Birmingham, Ala.* *

22-23 — *GCSAA Seminar on Environmental Considerations in Golf Course Management in Little Rock, Ark.* *

27-29 — *Golf Course News' Public Golf Forum in Chicago.* Contact the GCN Conference Group at 207-846-0600.

Continued on page 70

Golf Course Marketplace

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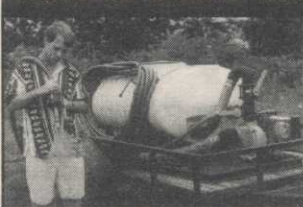
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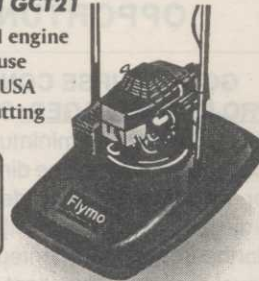
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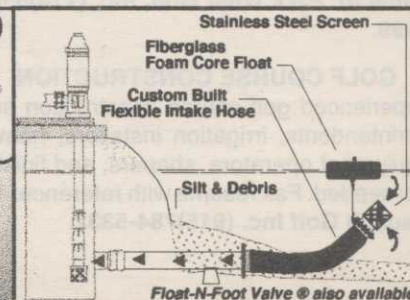
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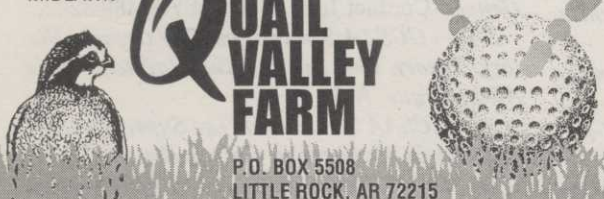
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*Appears in regional editions.

Von Brecht comment: Anniversaries

Continued from page 11

behaved the night before and we had mild weather, but I can imagine the result under extreme conditions.

This waste-water recycling plant is truly incredible. It was developed in the late 1920s and updated over the years. The plant cleans as much as 250 million gallons of wastewater per day and pumps it back into Lake Michigan. As a by-product of the wastewater treatment, Milorganite is actually micro-organisms which are systematically injected into the process. It sounds confusing, but you can call Al Ness or Terry Ward (414-225-3395) for a more thorough explanation.

I came away asking myself why every major metro area isn't doing what the MMSD has been doing for 70 years.

...

As you may notice, this issue of *Golf Course News* is quite hefty for a summer edition. Past years have seen smaller issues during the summer months, but the in-

dustry trend in marketing is changing. Suppliers to the industry are advertising, marketing and selling products year round. As an example, the 1995 August issue of *Golf Course News* had 38 advertising pages, and this year we have more than 65 ad pages. The remainder of the year looks strong not only for *Golf Course News* but for the industry.

It only makes sense! The latest NGF figures show 188 courses have opened through July 22. As the summer and fall are the busiest months for course openings, we're right on target for 400-plus in 1996.

While growth in course construction continues, let's all remember that player participation is flat. We can all lend a hand to encourage new players to take up the game and stick with it.

I hope you are enjoying *Golf Course News* as much as ever. These larger issues allow more editorial coverage and more news for you. Please contact me with any questions or comments.

Foster projects

Continued from page 3

parkland setting. They cleared the trees and underbrush between holes. You feel like you're playing on a natural parkland that has been there for many years.

"It is a very serene, tranquil environment."

Scrutinizing some of the great West Coast courses, Foster said, "we saw that each has towering trees, wonderful strategy, beautiful scale and a softness to the ground. When we went through Washington Golf Club, we felt there were similarities and started working off that. It is a tribute to early, classic American architecture and their sites."

Course builder Fore Inc. is con-

structing "wonderful stone walls reminiscent of Baltusrol," Foster said. Forty to 50 homesites are planned on the property.

...

In other Foster news, Zion Park District, located directly north of Chicago, has retained Keith Foster Golf Course Design to design its upscale municipal golf course.

Design work will begin immediately and construction is expected to begin in early 1997.

Foster has also been selected to study St. Clair Country Club in Belleville, Ill., and give recommendations to restore both nines to the original design intent, (circa 1911), while also incorporating newer design elements where needed.

Calendar of Events

Continued from page 68

30 — GCSAA Seminar on Maximizing Turfgrass Disease Control in New Seabury, Mass. *

31 — GCSAA Seminar on Wildlife Management and Habitat Conservation in New Seabury, Mass. *

November

5 — GCSAA Seminar on Maximizing Job Satisfaction in St. Louis. *

6 — GCSAA Seminar on Developing Your Hazard Communication Program in Wichita, Kan. *

7 — GCSAA Seminar on Drainage Systems in New Brunswick, N.J. *

7-8 — GCSAA Seminar on Managerial Productivity in Boise, Idaho. *

8 — GCSAA Seminar on Design and Construction of Chemical Storage Buildings in Dayton, Ohio. *

8 — GCSAA Seminar on Preventive Maintenance of Turf Equipment in Southfield, Mich. *

11 — GCSAA Seminar on Turfgrass Stress Management in Myrtle Beach, S.C. *

11 — GCSAA Seminar on Calibration and Safety of Pesticide Application Equipment in Myrtle Beach, S.C. *

11 — GCSAA Seminar on Preventive Maintenance of Turf Equipment in Rhinelander, Wis. *

12 — GCSAA Seminar on Drainage Systems in Rochester, N.Y. *

12-14 — Kentucky Turfgrass Council Conference and Trade Show in Lexington, Ky. Contact 606-622-2228.

12-15 — Turf and Grounds Exposition in Rochester, N.Y. Contact NYSTA at 800-873-TURF.

13-14 — GCSAA Seminar on Preconstruction and Construction Management in Bolton, Mass. *

13-14 — GCSAA Seminar on Spanish for Golf Course Management in Temecula, Calif. *

14-15 — GCSAA Seminar on Writing IPM and Environmental Monitoring Programs in Salt Lake City, Utah. *

18-19 — GCSAA Seminar on Golf Course Restoration, Renovation and Construction Projects in Cleveland. *

18-19 — GCSAA Seminar on Plant Nutrition and Fertilizers in Long Island, N.Y. *

19-21 — Turfgrass and Ornamental Seminar in Lafayette, Ind. Contact Bev Bratton at 317-494-8039.

20-21 — GCSAA Seminar on Public Relations and Presentation Skills, scheduled to be held in

Guelph, Ontario, Canada. *

21 — GCSAA Seminar on Developing Your Hazard Communication Program in Taytown, N.Y. *

December

2-3 — GCSAA Seminar on Basic Principles of Turfgrass Management in Albuquerque, N.M. *

3 — GCSAA Seminar on Reel Mowers and Grinding Methods in Bolton, Mass. *

4-5 — Rhode Island Turfgrass Show & Conference in Providence.

4-6 — Rocky Mountain Turf Conference in Denver. Contact Julia Marie at 719-489-3222.

3-4 — GCSAA Seminar on Golf Greens: History, Theory, Construction and Maintenance in Albuquerque, N.M. *

5 — GCSAA Seminar on The Superintendent as Grow-in Manager in Gainesville, Fla. *

6 — GCSAA Seminar on Practical Tree Management in Des Moines, Iowa *

9 — GCSAA Seminar on Human Resource Management in Atlantic City, N.J. *

10 — GCSAA Seminar on Irrigation Scheduling Techniques in Columbia, Mo. *

10-11 — GCSAA Seminar on Design, Renovation and Construction for IPM, Elliott City, Md. *

10-13 — Ohio Turfgrass Foundation Regional Conference and Show in Columbus. Contact 614-261-6750.

11 — GCSAA Seminar on Human Resource Management in Lincoln, Neb. *

12 — GCSAA Seminar on Maximizing Turfgrass Disease Control in Jacksonville, Fla. *

12-13 — GCSAA Seminar on Golf Course Restoration, Renovation and Construction Projects in Harrisburg, Pa. *

16-17 — GCSAA Seminar on Golf Greens: History, Theory, Construction and Maintenance in Milwaukee. *

1997

January

20-22 — 37th Virginia Turf and Landscape Conference and Trade Show in Richmond, Va. Contact Dixie McClenahan at 540-942-8873.

February

6-12 — GCSAA International Conference and Show in Las Vegas. *

28-Mar. 2 — West Michigan Golf Show in Grand Rapids. Contact 616-247-1931.

* For more information contact the GCSAA Education Office at 800-472-7878.

Public Golf Forum

Continued from page 39

is sponsoring the Public Golf Forum," added von Brecht. "It's the only national golf conference that draws the entire buying team from public-access golf courses — the manager, owner, and superintendent. With educational program tracks dedicated to management, marketing, maintenance and development, the Forum will attract each member of this highly qualified buying team by meeting their educational needs."

Vendors who exhibit at the Forum will also appreciate the hotel-type conference for its ease of set up. "There will be 10 hours of exhibit time — plus vendors will receive a seminar package to attend sessions when exhibits are not open," noted von Brecht. "This makes exhibiting easy and cost effective."

Interested vendors should contact the Public Golf Forum Exhibit Sales Manager Mike Lafaso, at (800) 441-6982 or fax (207) 846-0657.

Nicklaus track getting underway


PALM COAST, Fla. — Grand Haven officials are hoping to break ground for the Jack Nicklaus Signature 18-hole course sometime in August.

The golf course is scheduled to be completed in the fall of 1997. The course will reportedly be a semi-private layout that will not have condominiums and other housing lining the fairways, according to John Gann, senior vice-president of sales at Lowe/Palm Coast Inc., which recently purchased Palm Coast golf courses Pine Lakes, Cypress Knoll, Matanzas Woods and Palm Harbor.

Lowe/Palm Coast Inc., purchased the Grand Haven layout from 700 acres of ITT property bordering the Intracoastal Waterway and several holes are expected to extend to the waterway.

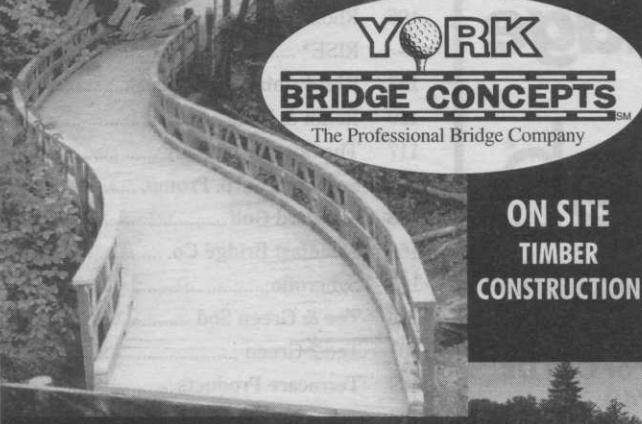
Development book offered

A free booklet, *Golf Course Development Planning Guide*, from the American Society of Golf Course Architects (ASGCA) is available to help anyone taking the first steps to develop a new golf course. The 16-page brochure covers the key components involved in a new course project. It provides data on the growing consumer demand for new golf facilities, the average cost of a new course, proper site selection, a guide to finding assistance, financing and sample operating projections for a daily fee course. To obtain a free copy, send a self-addressed, stamped business-size envelope to the ASGCA, 221 N. LaSalle St., Chicago, Ill. 60601.



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