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No. 9

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

VOLUME 2 NUMBER 9
SEPTEMBER 1990
A United publication

INSIDE

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Types of courses by length

Length	Type			
	Daily fee	Municipal	Private	Total
Regulation	5,349	1,887	4,998	12,234
Executive	492	129	158	779
Par 3	455	150	120	725
Total	6,296	2,166	5,276	13,738

Source: NGF

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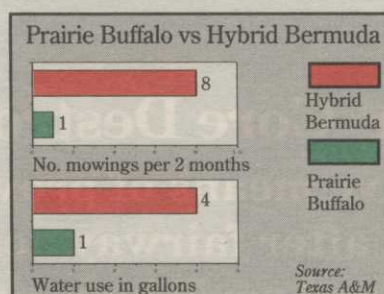
Beating the heat

Buffalo billed as wonder grass

BY PETER BLAIS

Barton Creek Country Club in Austin, Texas, is experimenting with two varieties of buffalograss that will eventually be available nationwide and could save the golf industry millions of dollars annually in water, fertilizer, pesticide and mowing expenses.

Prairie buffalograss developed at Texas A&M University was introduced



to the perimeter rough and along steep bunker faces of the new Ben Crenshaw-designed course beginning in late June, Continued on page 24

Isolite expected barrier-breaker

BY MARK LESLIE

Isolite is no panacea, Lou Haines is quick to say, but it could lower the body count in impending water wars.

Haines, the technical services director of New Golf Concepts, Inc., of Westminster, Colo., is optimistic that tremendous inroads will be made into America's golf courses by Isolite, which

Continued on page 26



Water comes into play on several holes, including this one, at Jack Nicklaus' latest design — the private Governors Club in Chapel Hill, N.C. Nicklaus and club pro Ronnie Parker played the inaugural round at Governors Club on Sept. 5. The par 72

layout plays from four tees — the shortest over 5,267 yards and the longest 7,085. See pages 12-13 for more information on new courses proposed and approved around the United States.

Photo by Chip Henderson

UK is definitely no U.S.

BY BRADLEY S. KLEIN

A revolution in golf course maintenance in the United Kingdom has begun at the same time its greenkeepers are being lured to Continental Europe.

The culprit causing an Americanization of greenkeeping is television, according to Brits in the industry. The pull to Europe, where 300 courses are under construction, is salaries that are double and triple the \$15,000 to \$22,000 earned in the United Kingdom.

British and International Golf

Greenkeepers Association Chairman Ivor Scoones acknowledged the "brain drain" is a living force between England and the continent.

Budget troubles at home tend to magnify the difference between tending a course in one place or the other.

BIGGA Executive Director Neil Thomas said greenkeepers in Great Britain, who historically have had low maintenance budgets, now "have to deal with public perceptions about how a golf course should look."

Many British golfers have turned their back on "the links model" and become fascinated by what might be called "the Augusta model," he said.

The role of televised tournament golf cannot be overestimated. Club members, having watched The Masters on the tube, ask their club secretary why their greens and fairways aren't picture perfect, lush and plush, he said.

Greenkeepers explain that even Augusta National is timed to peak at

Continued on page 22

Discrimination stops at supers' desk

BY MARK LESLIE

Discrimination doesn't exist on groundskeeping crews at country clubs around the nation — even those that exclude certain people as members, according to superintendents surveyed.

"Segregation and integration are just not an issue (on grounds crews)," said Gerald Faubel, president of the Golf Course Superintendents Association of

America and superintendent at Saginaw (Mich.) Country Club. "I have never seen any discrimination whatsoever with regard to race or sex on a grounds crew."

Faubel's remarks followed the debacle at Shoal Creek Country Club in Birmingham, Ala., in which the club's discrimination against blacks threatened to prevent the PGA Champion-

ship from being played.

"If you found any segregation in grounds crews it would really surprise me," Faubel said.

James Singerling, executive vice president of the Club Managers Association of America and a former club manager, said clubs "never have a hiring policy."

Continued on page 19

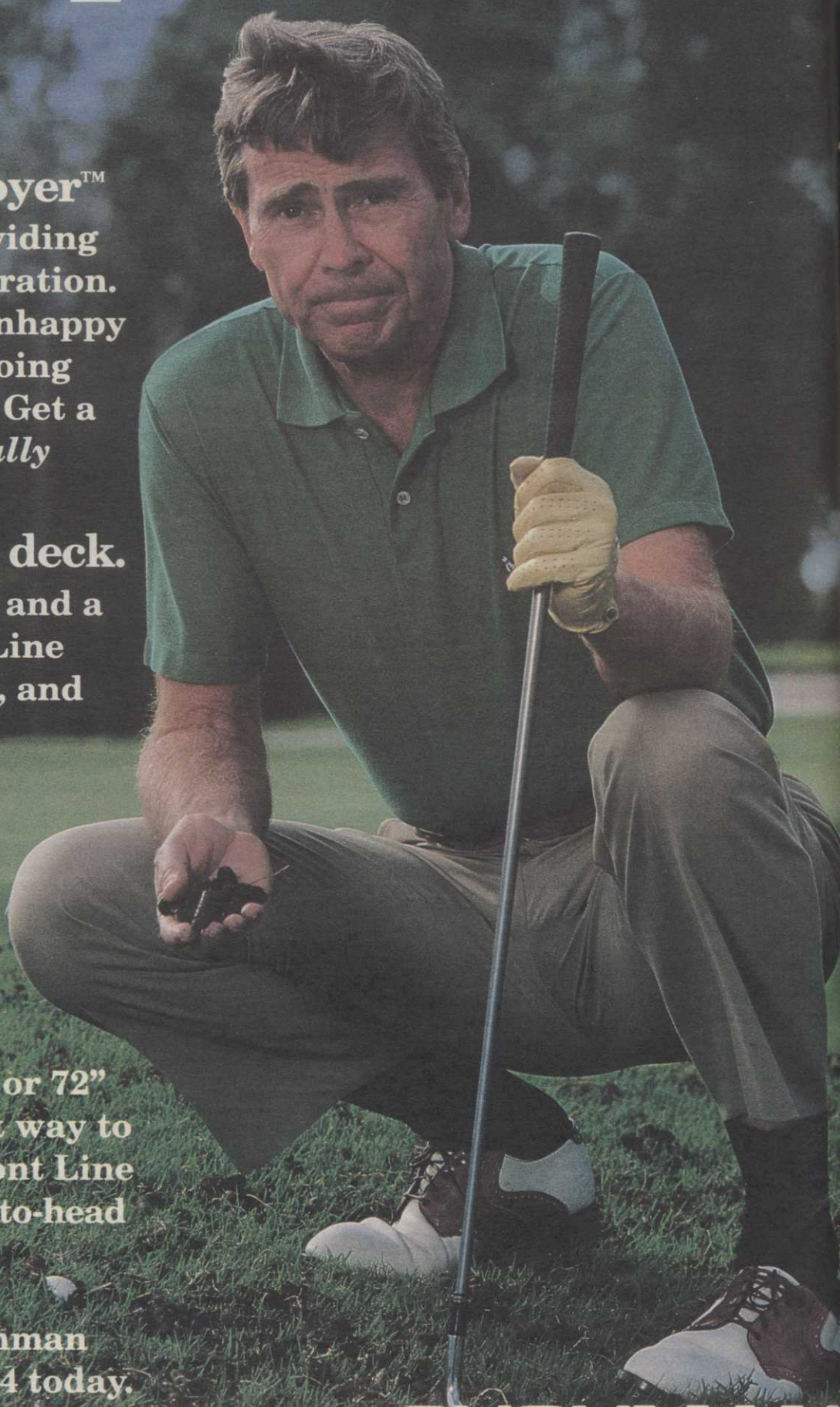
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CUSHMAN
BUILT TO LAST

TPC-Conn. officials face stiff test

Renovations must be complete in time for '91 Greater Hartford Open

Renovations to the Tournament Players Club of Connecticut have begun amid worries the facility will not be up to Professional Golfers' Association Tour standards by next year's Canon Greater Hartford Open.

Eleven new and seven altered holes are being built around 268 luxury homes that will finance the \$5 million renovation and pay off debts.

Pete Dye renovated the Edgewood Golf Club, which became the TPC of Connecticut in 1984. The latest renovations, three years in the planning, were drawn

up by tour employees Brit Stinson, Bobby Weed and TPC general manager Jerry Mobley. Touring pros Howard Twitty, the 1980 GHO champion, and Roger Maltbie also provided assistance. The remodeled facility will be renamed TPC River Highlands.

Work began in March with the clearing of a 52-acre gravel pit near the Connecticut River that will accommodate the 10th through 13th and part of the 14th holes.

The major emphasis will be placed on the greens. The designers plan to give the average player the chance to roll the ball onto most

greens rather than requiring a carry over bunkers. They also hope to avoid the problems on the existing back nine, which reportedly spiked up easily.

Mobley hoped to have several new holes seeded by June. But lack of rain prevented it.

"We would have had to drain the pond (near the 12th, 16th and 17th holes) and we couldn't do that," Mobley told the Hartford Courant.

Added Twitty: "I was hoping the course would be a little further along, but I know everyone is committed to getting the job done. But I'm not going to throw any smoke at

you that we don't have a lot of work to do."

Midwest Links buys Meadowlakes in Texas

Midwest Links, Inc. has bought the golf course and country club operations at Meadowlakes, adjacent to Marble Falls, Texas.

Ralph Riley is general manager and Jim Boockmeier is director of golf. Both are stockholders in the buying corporation, along with Bob Sweeney.

Meadowlakes, a semi-private club with 600 members, has an 18-hole,

6,710-yard golf course, driving range, practice green, tennis courts and a swimming pool.

Remaining lots and land adjoining the country club remain under the ownership of Meadowlakes Corp., according to Flint Sawtelle, president.

Marble Falls is about 45 minutes west of Austin in the Highland Lakes area.

Money-maker pushes county execs to build second course

Wayne County (Michigan) Executive Ed McNamara believes the county can afford to build a second 18-hole golf course now that his administration has shown a second consecutive budget surplus.

McNamara, who was scheduled to meet with New York bond-rating house employees in late July, hopes the surplus will result in an improved bond rating and make the course more affordable.

McNamara estimates a new course would cost between \$3 million and \$9 million and occupy 120 to 150 acres of county-owned land. Two sites are under consideration, one between Middle Belt and Inkster roads, and a second next to Metropolitan Airport.

The county has already designed a course at the Inkster site, although state environmental officials previously opposed the plan because of wetlands.

McNamara has experience in golf management. He is part owner of an Inkster course and oversaw three city-owned facilities while mayor of Livonia.

Moratorium stops course completion

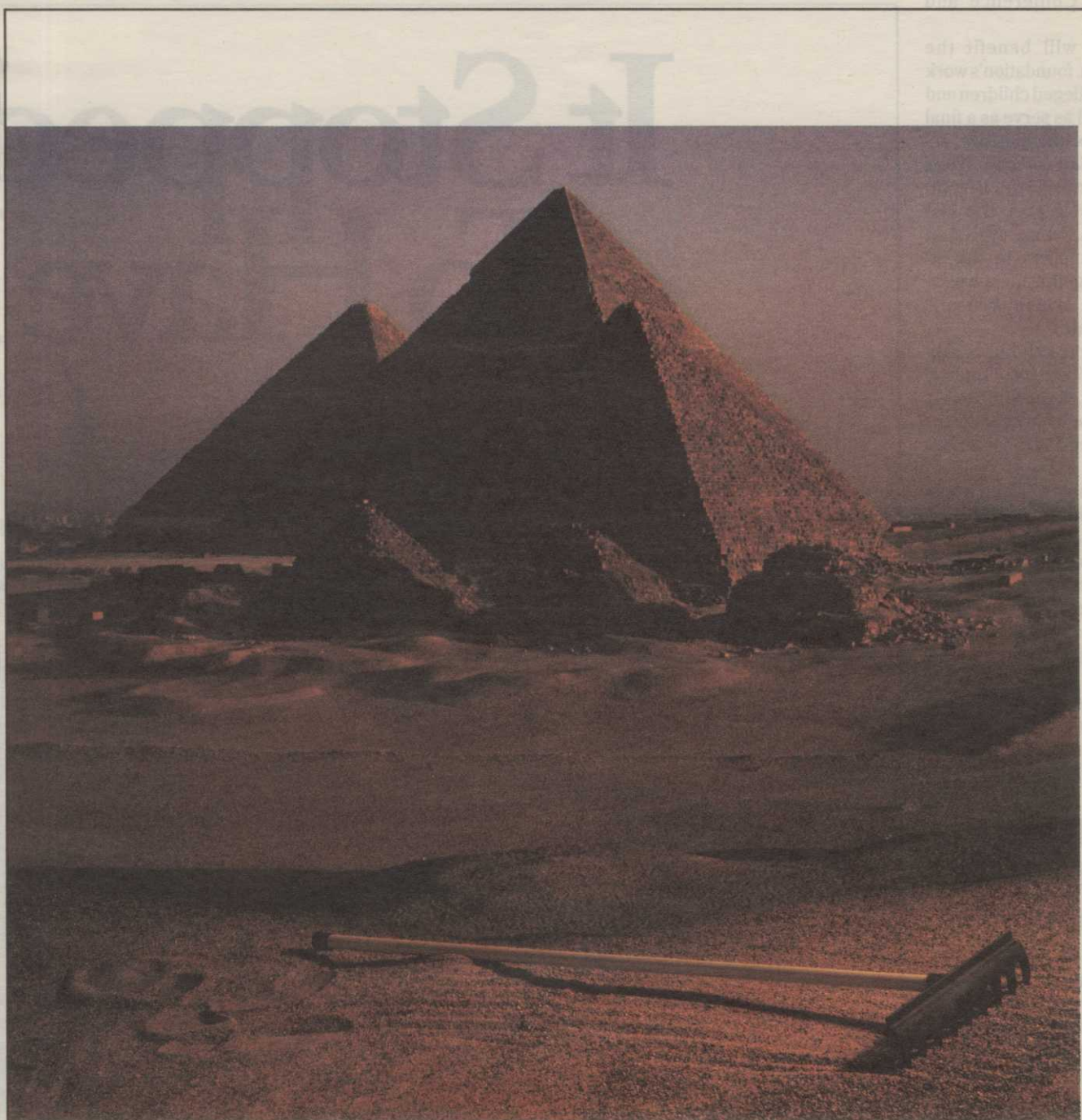
The Columbia (Ill.) City Council has refused to lift a building permit moratorium in a proposed business park to allow golf course developer Jim Watkins to complete construction of his course.

Watkins started construction last year without a city permit. He was told to stop building in December while the city considered new zoning regulations along the (Mississippi) river bottom where the course is located.

Aldermen were sympathetic with Watkins' requests to lift the moratorium and issue him a building permit. But city lawyers advised against it.

The city council must still adopt a new zoning ordinance and hold public hearings.

A recent land-use plan completed by a St. Louis firm considered golf courses a good use for the property. But the course falls in a light-industrial zone that presently requires a variance for a golf course.



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Pictured above: The world's largest bunker — adjacent to the 13th hole on the Valley of Gizza Country Club.



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NEWS

Rodriguez Foundation and GCN set tourney

Golf Course News in association with the Chi Chi Rodriguez Youth Foundation will host a golf outing for exhibitors, distributors and their guests on Feb. 13 to climax the 62nd GCSAA International Golf Course Conference and Show.

The event will benefit the Clearwater, Fla. foundation's work with underprivileged children and families as well as serve as a final get-together for the industry, according to *Golf Course News* publisher Charles E. von Brecht.

"In my travels over the last couple of years, I've uncovered an interest by suppliers to the industry to get together somewhere other than the exhibition floor," von Brecht said.

"I realize some exhibitors play in the superintendents' tournament. However, because of limited openings, there have been fewer supplier participants in the last few years."

The golf outing will lend a less formal atmosphere, he said.

It is planned as an informal foursome scramble. It will be held at the Legacy Golf Club in Henderson, Nev., near Las Vegas.

The contribution for the event will include golf, cart fee and lunch.

Interested people should contact *Golf Course News* at 7901 Fourth St., North, Suite 311, St. Petersburg, Fla. 33702; 813-576-7077.

Monaghan's project meets opposition

Developers of Settlement, a proposed golf and residential development near Ann Arbor, Mich., say the plan cannot move forward without a Department of Natural Resources permit to alter 16 acres of wetlands.

If the permit is granted, developers could seek township approval for the project. Without it, the project would have to be re-evaluated.

Most of the 150 people at a late June DNR public hearing were opposed to Domino's Pizza founder Thomas S. Monaghan's wetlands permit request for the 18-hole course.

Opponents feared pesticide contamination from the course. They believe chemicals could pollute wells and feed into Fleming Creek, a tributary of the Huron River.

Developers have promised to use less dangerous and fewer chemicals than the typical golf course.

Florida Golf Council being created

Summit to draw government, golf industry together

After months of discussion and continually increasing pressure on Florida golf development, industry leaders have formed the Florida Golf Council to serve as the voice of the state's golf business.

Major government and industry leaders will speak at the council's inaugural Florida Golf Summit. To be held in Orlando on Oct. 11-13 at

the Grand Cypress Hotel, the summit focus on government relations.

Among the speakers will be Gov. Bob Martinez, Secretary of Commerce Bill Sutton and golf course designer Tom Fazio.

Also present will be representatives of key governmental permitting agencies, major golf associations and architectural firms, along with experts in water management, environmental permitting and financing.

Pollard cited for article on Pebble Beach

Frank Pollard, a freelance writer in Hollister, Calif., won a second place for outstanding journalistic achievement in the

GCSAA's annual awards for a story that appeared in the December 1989 issue of *Golf Course News*.

As one architect said: "Golf is a \$5.5-billion-a-year business in Florida and we don't have a lobbyist at the statehouse... Myrtle Beach (S.C.) spends more to promote golf than the entire state of Florida... Hopefully this will be the first step in changing that situation."

To register for the summit or get further information, people may contact Nancy Oliver, Florida Golf Council, 1401 Forum Way, Suite 100, West Palm Beach, Fla. 33401; telephone 407-688-0800.

Pollard was cited for his account of the maintenance at Pebble Beach Golf Links since its construction 70 years ago.

Illinois gives incentives

The Illinois state legislature has passed State Sen. Frank C. Watson's bill providing incentives for golf resort developers of Carlyle Lake in southern Illinois.

The bill allows the Department of Conservation to provide up to 35 percent of the cost of developing concessions at the property.

Two developers have submitted resort proposals. In addition to the golf course, the facility could include a 125-room hotel and meeting rooms, swimming pool, tennis courts and spa.

It Stopped Just To Have Its Pi

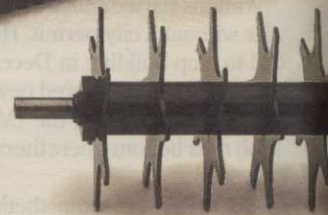
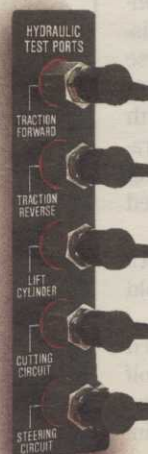
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Congressman wants fed'l revenue from courses

Land leased to Scottsdale should produce further return, Synar claims

U.S. Rep. Mike Synar, D-Okla., is upset the Interior Department receives no revenues from federal land leased to the city of Scottsdale, Ariz. for two golf courses.

The courses are part of the flood

control basin and the land is leased as a flood-control project, according to the magazine "Insight."

The courses, which are managed for the city by the Professional Golfers' Association of America, charge

greens fees up to \$75. Income pays for course construction.

"If people in the private sector did these kinds of deals, they'd be fired," Synar said of the federal negotiators.

The Interior Department's Bob

Michaels, who helped negotiate the lease, said it probably should have been drawn up differently, although the government doesn't pay maintenance costs under the current agreement.

Hills moves East office

Arthur Hills and Associates' Maryland office has moved.

The new address is 6701 Democracy Blvd., Suite 300, Bethesda, Md. 20817; 301-571-9334.

Renovations lag behind schedule

Expansions of Duluth, Minn.'s Lester Park and Enger Park golf courses are behind schedule, but golfers were expected to get a break with the opening of a second nine at Enger in August.

Both courses are being expanded from 18 to 27 holes.

With the new nine at Enger,

both will have 18 available for play. The new nine at Lester was sodded in late July and could be ready this fall.

The \$4.1 million expansion project begun two years ago was supposed to be completed in July.

It was delayed by bad weather and a lack of snow cover last winter

that caused severe turf damage at Enger.

Erosion problems have also plagued both courses.

In addition to the new holes, several tees and greens were modified at Lester and new irrigation systems installed at both facilities.

Planter's Row Course closes at busiest time

The Planter's Row Course on Hilton Head Island, S.C., one of three 18-hole courses that comprise the Port Royal Golf Club, is undergoing major renovation work that will close the course through the busy summer season, according to Michael F. Tinkey, chief operating officer of Royal Golf and Tennis.

"Our strategic plan is to offer the finest golf on Hilton Head Island," Tinkey said. "And to do that, we are willing not only to forego three months of revenue on Planter's Row, but to commit the additional dollars that we feel are necessary to make good on our pledge."

A major part of the renovation work includes replacement of all the greens at Planter's Row.

Completely rebuilt to United States Golf Association specifications, the new putting surfaces will feature Tifdwarf Bermudagrass.

"In addition to redoing the greens," Tinkey said, "we are doing some things to enhance both the playability and the aesthetics of the course."

"We are taking out some of the sand bunkers, doing some subtle recontouring of some areas, replenishing landscape material throughout the course and doing some things to create several beauty points."

Architect Willard Byrd, who originally designed the 6,520-yard, par-72 Planter's Row, is supervising the renovation project. Planter's Row was opened in 1985 and was host to the PGA Senior Tour's Hilton Head Senior Invitational that year.

Tinkey said the renovation is only part of a massive capital improvement project that will see Royal Golf and Tennis pump more than \$700,000 into the combined 81-hole golf operation at Port Royal and Shipyard Plantations within its first year of ownership.

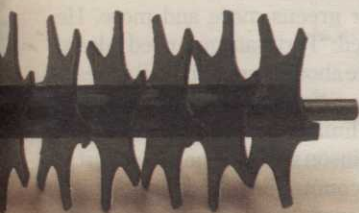
New maintenance equipment, additional landscape material, cart path repaving and new restroom facilities are included in the project.

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Golf Course News is published 12 times a year by United Publications, Inc., P.O. Box 997, 38 Lafayette St., Yarmouth, ME 04096. The newspaper is distributed without charge to qualified golf course superintendents, greens committee chairmen, club presidents and owners, as well as builders, developers and architects.

Second-class postage paid at Yarmouth, ME and additional office. Correspondence should be addressed to Golf Course News, P.O. Box 997, Yarmouth, ME 04096.

Postmaster: Send address changes to Circulation Manager, Golf Course News, P.O. Box 1648, Riverton, N.J. 08077-9648.

NEWS

Mr. Maturra, the sales manager for Kenko Commerce of Japan, in suit, inspects bentgrass at Arima Hot Springs Resort near Osaka, along with Mr. Koura, left, who owns a fertilizer and seed company in Osaka; Dr. C. Richard Skogley, recently retired professor from the University of Rhode Island, center; and Armen G. Suny, a golf course superintendent and consultant from Castle Pines Golf Club in Castle Rock, Colo., right. An unidentified observer is to the right of Maturra.



American expertise goes to Japan

BY MARK LESLIE

Dramatic climatic changes, high maintenance costs and lack of turfgrass education are major problems for the burgeoning golf industry in Japan, according to four Americans who recently returned from a teaching visit to that country.

"If golf is to become a game of the masses as in the U.S.A., construction and maintenance costs will have to be reduced many-fold," said Dr. C. Richard Skogley, a turfgrass expert who retired from the University of Rhode Island this

year.

Skogley accompanied Mike Robinson, president of Seed Research of Oregon; David Fleming, golf course superintendent, consultant and architect from El Cajon, Calif.; and Armen Suny, a superintendent and consultant from Castle Pines Golf Club in Castle Rock, Colo.

More than 500 of Japan's 1,500 superintendents turned out to hear the Americans speak on golf management. The seminars, sponsored by Seed Research of Oregon and its Japan agent, Kenko Commerce, were held in Tokyo, Nagoya, Osaka, Kumamoto and Sapporo.

Fleming, president of the new Golf Properties Management, Inc., said: "A lot of new information was presented on greens management, overseeding, plant breeding and research. Change in methods generally takes time for acceptance, and the first step toward change is the delivery of new ideas and information."

"I think we have left food for thought and, hopefully, better turf management, and better golf courses will be the result..."

"There's no formal education there at all for superintendents," Robinson said. "A couple of colleges have horticultural courses, but very little instruction in turf management. That's part of the breakdown."

Robinson, who plans to repeat the educational tour, said the Japanese superintendents were "very receptive" to his group. "They're trying hard and are very proud of their courses, but in some cases they've had bad advice," he said.

Robinson referred to the great number of greens not properly built.

Fleming agreed. "There seems to be mixed to slight interest in the USGA (U.S. Golf Association) construction method," he said. "In such a country, with abundant rainfall, the focus is more on drainage than anything else. Whereas the USGA green features a perched water table as well as controlled infiltration rates."

"I believe the results of a USGA spec green, and an aggressive top dressing program would prove to have excellent water infiltration, coupled with healthy, less disease-susceptible turf."

Suny said Japan's superintendents need to top dress and verticut their greens more and more. He added: "Turf managers need to learn more about overseeding. It appears to be a 'foreign concept!'"

Climate is a major problem, Robinson said. The northern part of the country has conditions similar to Canada, while the southern end has two situations — the very hot and humid areas at lower elevations that struggle with diseases, and the nearby mountainous region that has few problems.

Skogley said the Japanese turf industry "needs to take some action to show and demonstrate the safety of properly used pesticides."

Chiba Prefecture has taken steps to outlaw all insecticides and herbi-

Continued on page 7

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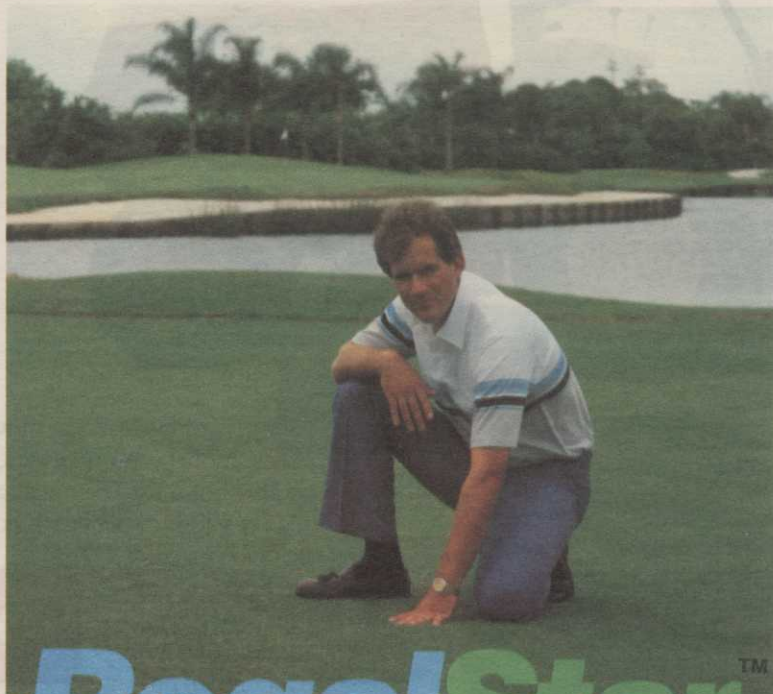
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Bass Group expands golf course division work

Golf course developers and operators Arthur Jeffords, Edward Ewing and Donald O'Quinn have joined Marion Bass Investment Group to direct its new golf course development division.

The division, Bass Golf, Inc., will manage a series of investment funds that will build and manage golf courses in metropolitan and resort areas, principally in the Southeast.

Jeffords and Ewing, vice presidents of Bass Golf, have extensive experience in golf course development and management, according to Marion Bass, president of Bass Golf and chairman of Marion Bass Investment Group.

They will also assist golf course owners and developers with professional services ranging from overall property development and construction to operational management.

O'Quinn serves as director of golf course construction for Bass Golf. In his 30-year career, he has worked with Arnold Palmer, Jack



Arthur Jeffords

Nicklaus, Gary Player and Pete Dye in creating some of the world's best known courses, including Harbour

Town Golf Links in Hilton Head, S.C.; Kiawah Island (S.C.) Links; and Amelia Links in Amelia Island, Fla.

PGA professional Jeffords heads golf course development and management for Bass Golf.

Jeffords was formerly a principal in Jeffords, Ewing & Associates, a



Edward Ewing

golf management and development company based in Murrells Inlet, S.C. He worked with architect Tom Fazio to

plan and build Wachesaw Plantation Club, a private course in Murrells Inlet, S.C.

Jeffords is president of the Wachesaw club.

Jeffords was associated with Sea Pines Plantation of Hilton Head Island for more than 12 years when he served as director of golf for the



D. O'Quinn

resort's four golf courses and as head professional at Harbour Town Golf Links.

Ewing heads research, site

selection and negotiation activities for Bass Golf. Ewing was formerly a principal with Arthur Jeffords in Jeffords, Ewing & Associates.

At Wachesaw Plantation Club, Ewing was responsible for all operations and served as controller for the \$80-million golf and residential development. Ewing served as a

NEWS

CPA specializing in golf and residential projects with Welker, Harris & Co. and the international accounting firm Coopers & Lybrand.

O'Quinn previously served as executive vice president of Sea Pines Co. He was in charge of sports operations and golf course development, building eight courses in five states and Puerto Rico.

He also served as chairman of the PGA Tour's Heritage Golf Classic.

Japanese

Continued from page 6

cides on new golf courses because of spills and incidents of misuse resulting "from lack of education," Robinson said. There are threats of similar action in other prefectures.

As Fleming said: "There seems to be a lot of pressure to manage without the use of protective chemicals. We were given a list of available chemicals that seemed adequate for good course management... There is a real need for an education program on the new breed of agricultural chemicals with shorter half-lives and less persistence in the soils. There can be safe co-existence with the environment and the proper use of protective chemicals."

To Skogley's comment that maintenance costs are extraordinarily high, Robinson explained, "You have twice as many people on the grounds crews there, but they don't have the same equipment we do."

He said some new Japanese courses have the latest machinery while others don't.

Without modern equipment, groundskeeping is "very labor intensive," he said, mentioning one course he toured where four women were walking beside one another hand-spreading fertilizer.

Regarding grasses, Suny suggested the Japanese use more Bermudagrass and improve their northern and mountain courses by growing perennial ryegrass and bentgrasses in the fairways — an idea that must be sold into "a bluegrass mentality."

Skogley added that Japan should be a market for colonial bentgrasses and fine fescues for fairways and tees, and for fine fescue mixtures in roughs and banks.

"Ryegrasses have unlimited potential for all fairway and tee overseeding, possibly in combination with colonial and fine fescues, particularly as you move north," Skogley said.



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Tour's gone overboard: roughs too tough

I've probably commented all too often on course conditions at PGA Tour events. I even commented on the British Open. For the most part, my thoughts have been positive. Not so this time.

With all due respect to superintendent James Simmons, the PGA directives for course conditions were much too severe at Shoal Creek.

A local sports writer said it just wasn't exciting watching (in person or on television) players of this caliber chop the ball 20 to 100 yards out of the rough to get it back in play, then hit the green, only to have the ball run through the green into more



C. von Brecht

thick rough.

I even saw a Payne Stewart shot hit a metal-en-croachment barrier and deflect onto the green — in better position than had

it not hit the barrier.

Wayne Grady played great golf, but the golf course was too severe. It wasn't enjoyable for the contestants or the spectators.

I hope all tournament governing bodies will take a hint from this

1990 PGA Championship and realize that a 7,200-yard layout with tight fairways and firm greens is tough enough without man-eating rough.

As we head into the busy fall season, *Golf Course News* is planning for 1991 to give you an even better publication for the golf industry.

Even though the economy seems

somewhat unsteady, plans for golf facilities are moving ahead — and so is *Golf Course News*.

In the next couple of issues I'll let you know what's in the hopper for next year. In the meantime, enjoy this issue and be sure to pass it along to industry friends who may wish to receive a monthly issue.

Sincerely,
Charles E. von Brecht
publisher

COMMENT

All are equal

Discrimination. Segregation. Prejudice. Bigotry. Whatever you call the mindset that has ruled at exclusionary country clubs, it is distasteful. It should leave a foul taste in the mouths of everyone in golf which, since its inception, has been a game for the masses.

Before we were Americans, or Russians, or Irishmen... before we were Protestants, or Catholics, or Jews or Hindus... before man became any of those things that divide us in bigotry today, we were men and women, all of us, created by God.

"The Lord is no respecter of persons," the Bible tells us, so who do we think we are to treat a person of one race better, or worse, than, a person of another race?

It is good that the PGA Tournament Policy Board has established that no PGA Tour, Senior PGA Tour or Ben Hogan Tour event will be held at any golf club that has membership practices or policies that discriminate on the basis of race, religion, sex or national origin.

We can hope and pray that the



Mark Leslie

words of Rev. Abraham Woods will come true. The local SCLC president said that with the agreement by Shoal Creek to allow

black members, the start of widespread changes was under way. "It seems as so goes Birmingham, so goes the nation. The ripples have gone around the country and this sounded the death knell to exclusionary clubs..." he said.

Otherwise, we can learn a lesson by rereading the chapter in U.S. history about the Ku Klux Klan, which claimed it was not exclusionary with words like: "We antagonize no man's religion more than they do ours; it's an honest plea for equal recognition. We are not anti-foreigners; we simply require that our members be native-born Americans."

— Mark Leslie



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United Publications, Inc.
Publishers of specialized business
and consumer magazines

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LETTERS

Leave the masters' designs alone

To The Editor:

I was intrigued by the article "Mastering the 'masters' an intriguing pursuit" in the July edition of *Golf Course News*. So often over the years contemporary architects have redesigned the works of the masters such as Donald Ross and others.

In the 1930s, '40s and '50s there was little need for justification for the remodeling work in that the architects were hired by the clubs

(usually the greens chairmen) to make material changes to the courses to fit the individual desires of those in charge.

In the '60s and '70s the battle cry was "modernization," whatever the devil that means. In the '80s and '90s there have been many changes that have been passed off as labor-saving and responses to technology. Now Brian Silva has come up with "sympathetic renovation."

In my opinion, this is all non-

sense. For the last four decades Geoffrey Cornish and in the past five years Brian Silva have done remodeling work on Donald Ross layouts. In nearly every case both of these architects have superimposed their design work on the courses of the "master." There has been little or no attention given to the original plans, the Ross mystique or the overall balance that existed in many Ross works.

As a Ross fanatic I have played dozens of his courses in New England and the Northeast. I have gotten to the point where I can recognize from afar the handiwork of Geoffrey Cornish on a Ross design. This is relatively easy because it just doesn't fit.

As for Mr. Silva, I see absolutely no element of "sympathetic renovation"

in his recent work at Wampanoag Country Club in West Hartford, Conn., but rather a myriad of pot bunkers and other such garbage that was never a Ross trademark.

My point is that there are techniques for the restoration of golf courses that do not entail a change in design and demeanor. Greens can be dug up, brought to USGA standards and replaced in duplication of the original. There are plans to many Ross courses that were used as more than a general guideline and could be used today to stem the tide of bastardization of Ross works.

It is my sincere hope that those that are contemplating renovation of their golf courses — be they Ross, McKenzie, C.B. MacDonald,

Travis or many others — realize that a golf course design is like a work of art. After all, most responsible people would not hire a contemporary artist to add some reds to a Renoir.

Very truly yours,
Michael J. Fay, senior v-p
Donald Ross Society
West Hartford, Conn.

Write us

Letters are welcome on any subject pertaining to the golf course industry. Please mail them to: *Golf Course News*, P.O. Box 997, Yarmouth, Maine 04096.

NCA plans conference for directors

The National Club Association's first annual Club Director Conference, slated for Sept. 9-11, at Pinehurst (N.C.) Hotel and Country Club, will provide the latest thinking and solutions for a number of crucial challenges to private clubs.

Designed specially for incoming officers, the 1-1/2 day conference will also help private club directors, officers, owners, general managers, and others in the club community.

It will provide briefings and materials with immediate, take-home value — material that can be shared with those who do not attend.

Sessions will focus on legal/legislative and environmental concerns, board-manager relations, financial reporting and analysis, risk management, insurance, membership development, policy planning, and more.

Schreiner puts up his shingle

Craig Schreiner, an associate member of the American Society of Golf Course Architects, has opened his own design business in Kansas City.

Schreiner said he will soon announce several projects he will work on in the United States and abroad.

He was a design coordinator for Don Sechrest from 1985-86 and for Hurdzan Design Group from 1987-89.

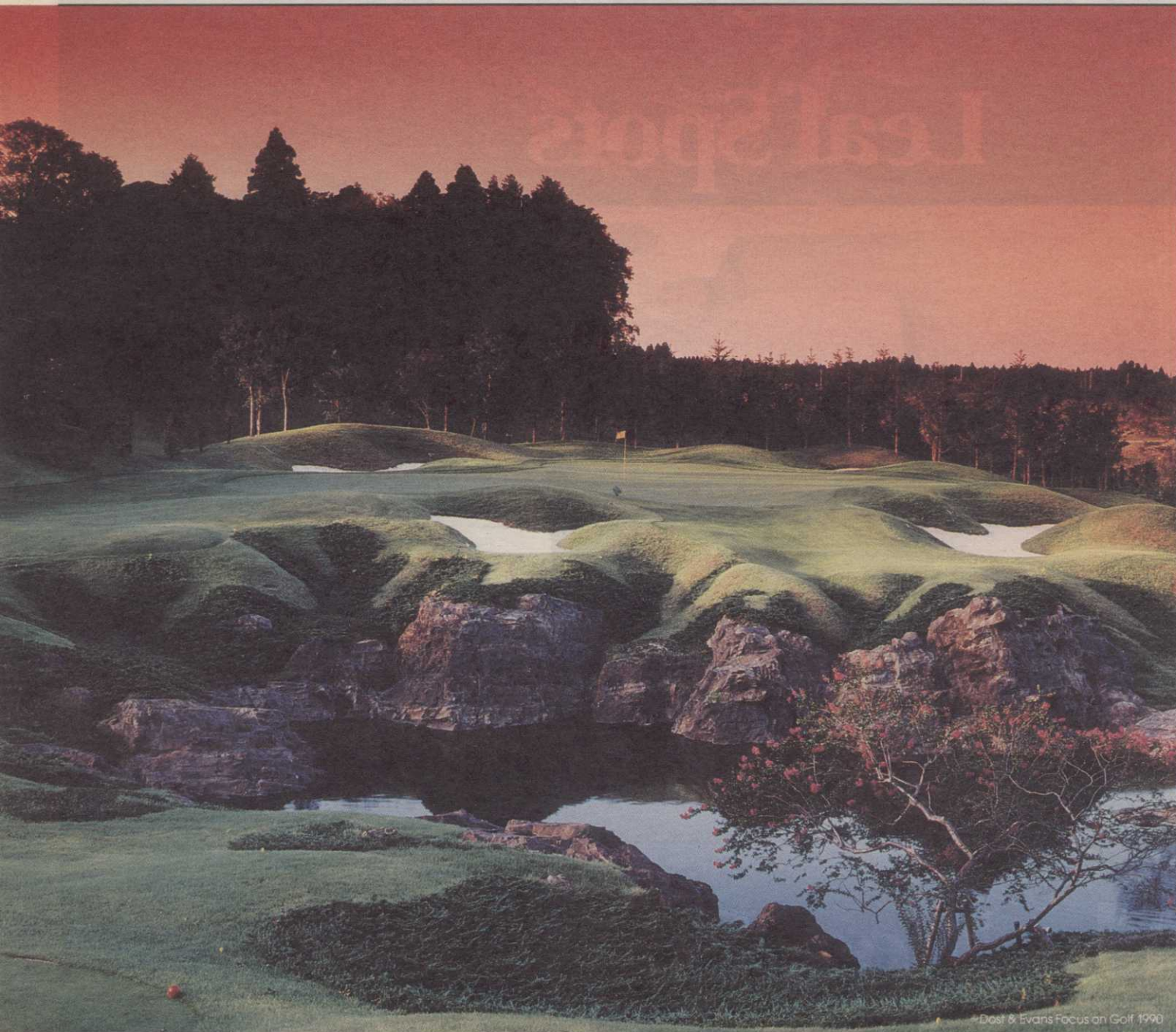
Schreiner earned a landscape management degree from Oregon State University in 1974 and a turfgrass management degree from Ohio State in 1984, when he went to work for Wadsworth Construction Co.

His office is located at 4500 Main St., Suite 900, Kansas City, Mo. 64111; 816-753-3001.

Club Mark gets Red Fox pact

Club Mark Corp., a Houston, Texas-based management firm, has been awarded the management contract for Red Fox Country Club in Tryon, N.C.

Red Fox originally opened more than 25 years ago as an exclusive members-only club in the Great Smoky Mountain resort area. A series of acquisitions involving undeveloped land caused an onslaught of operational and financial problems at the club in recent years.



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Twelve's a charm for AGC's Owens

BY PETER BLAIS

Maintaining a single course is a hard enough job for one person. Two is a reach. Three is approaching the impossible. But 12?

"I couldn't go back to running a single course now," said American Golf Corp. regional superintendent Jerry Owens, who directly oversees a dozen Southeast courses and consults at five more.

"Maybe when I'm getting ready to retire and I want to slow down. But right now there doesn't seem to be a limit to what I could do."

Owens is responsible for an annual maintenance budget of \$4.5 million and 150 employees scattered around the 12 private and public facilities. He has a superintendent at every course and tries to visit each at least once a month.

"My main job is to audit each course to make sure they meet or exceed the standards the company expects," said Owens, who has been with American Golf since 1986. "I'm looking for things like green speed and turf quality."

"We want to be the MacDonald's of the golf industry. You go to Mac's because you know what you'll get when you walk through the door. We want that, too."

Making sure a dozen courses meet that goal requires a lot of time and effort. Owens puts 30,000 miles a year on his car visiting the five courses he manages in the Atlanta, Ga. area. Planes take him to single courses in Helen and Savannah, Ga., three in Charlotte, N.C., and two in Myrtle Beach, S.C.

"It hurts the family life occasionally. I have a 5-year-old daughter I know would like to see more of her daddy. But the company pays for my wife and daughter to travel with me. That makes it easier," he said.

Owens' family hails from the Smoky Mountain town of Graham in western North Carolina. His love of the game sprung from the area's junior program that allowed him to play any of 35 courses within a 50-mile radius of Graham for \$10 a month.

"I mowed a lot of lawns and saved my money for golf," he remembered.

Running a tractor on his grandfather's farm



American Golf Corp. regional superintendent Jerry Owens, right, and Bobby Jones Golf Course superintendent Steve Kovacs outside the Atlanta, Ga., club.

and working around his father's department store as a youth helped make him comfortable with the equipment he later found in the maintenance shed and pro shop as a fledgling superintendent.

He graduated with an associate degree in turfgrass management from North Carolina State University in 1974. He worked as assistant superintendent at Pine Needles Resort in Southern Pines, N.C., and Golden Horsehoe in Williamsburg, Va., where he helped design an 18-hole, par-3 course.

Pinehurst lured him back to North Carolina in 1979. He joined the famed resort as head superintendent of the No. 1 course and later helped open and manage No. 6.

But after seven years of the daily routine of maintaining a course, "I was ready to spread my wings," he recalled of his decision to accept the director of golf post for the city of Savannah, Ga., in 1981.

Owens worked with Gary Player and his

assistant, Ron Kirby (now with Jack Nicklaus' European office) to design and open a second nine holes at Bacon Park. He also made the money-losing course profitable by raising green fees an average of \$4 (the senior citizen rate had been \$2.50 a round), doubling the maintenance budget and upgrading the facilities.

"If you don't have a product people like, you can't expect them to pay for it," said Owens.

Knowing it was in the city's best interest, he also began looking for a management company to run Bacon Park "even though I knew it probably meant my job being eliminated."

American Golf, which eventually took over Bacon Park, was one of the companies Owens contacted regarding the city's course. The management firm was impressed with his ability and hired him in 1986.

As American Golf grew, so did Owens'

responsibilities. Not only is he responsible for turf management, but also for maintenance of the golf car fleets and assisting in acquisition decisions.

The biggest difference in managing multiple courses is the number of potential problems, Owens said. For instance, the different grasses at Owens' courses range from bentgrass to Bermuda to fescues to ryegrasses.

"Each has different growing conditions and requires different chemicals. Keeping them all straight is the biggest challenge," he said.

The increased sensitivity to chemical use is the biggest change Owens has seen in his 17 years in the business.

"It's really happened in just the past couple of years," he said. "We have our own restricted-chemicals list. And we're much more conscious of chemical-application training."

Owens considers training one of the most important aspects of his job. And he's good at it.

"He truly believes all American Golf personnel are part of the 'team' and does his best to make them feel they are ... through training, personal notes and words of advice," wrote LESCO accounts manager Buck Caldwell, who has had many business dealings with Owens.

Owens said ever-growing administrative duties make it increasingly difficult to find time for teaching.

"But I try to get on a piece of equipment at least once or twice a month. I can't teach someone something unless I know how to do it myself," he said.

As for his staff, Owens said: "I just try to hire good people. As they get better, it makes my job easier. I learn a lot from people in the field just by talking with them on a regular basis."

Owens supervises more facilities than any of the 15 regional superintendents in American Golf's 116-course empire. And his number is likely to grow.

"The company plans on taking on 10 to 20 new courses a year. It's exciting," Owens said.

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NEW COURSES

Dye puts his stamp on 3rd nine at Kohler

Anchored by a golf hole Pete Dye says may be the best he has ever designed, the River Course opened Aug. 1, transforming Blackwolf Run in Kohler, Wis., into two 18-hole championship courses.

The River Course's 9th hole, a short par 4 dubbed "Cathedral Spires," will become a legendary golf hole, according to the club's head pro, Jeffry Moorman.

It offers a choice of three (high-, middle- and low-road) fairways to the green, and, reportedly, the only clue is that the best choice may be the least obvious.

Until River Course opened, Blackwolf Run played as three nine-hole courses. Golf Digest

magazine named Blackwolf Run the Best New Public Course in 1988.

The other 18 holes, now called Meadow Valleys Course, has had two holes renovated.

The River Course's tournament tees play 6,991 yards, is rated 74.9 and has a 151 slope. Its forward set on the four-tee course plays 5,090 yards with a 70.7 rating and 128 slope.

The Sheboygan River comes into play on 14 holes of the River Course, which incorporates the new nine.

"Our fourth nine maintains the tradition of Blackwolf Run's awesome design," said Alice Hubbard, the club's manager. "Strategic play with accurate shot placement is



The Sheboygan River runs alongside the 5th hole at Blackwolf Run's River Course, designed by Pete Dye. The tee on the par 4 5th is elevated on a bluff nearly 50 feet above the fairway and the green 419 yards away. The 5th, named "Made in Heaven," is club pro Jeffry Moorman's choice as the most scenic of the new nine holes.

the goal, but if you miss, you're still rewarded by the view."

The river runs through the property and separates the two courses, which are the

centerpiece of Kohler Village, which is being developed by Herbert V. Kohler Jr. as a business, residential and recreational center.

Courses newly proposed in the United States

Golf Course News is publishing this list monthly. It includes courses that have been a Following is a chart containing the sites and contacts for new courses and renovations in the preliminary planning stages. When these courses are ready to begin construction they

will be listed again the the "Courses newly approved in the U.S." chart.

We would appreciate your help in updating this section. To contact us call 207-846-0600 or write Golf Course News, P.O. Box 997, 38 Lafayette St., Yarmouth, Maine 04096.

Location	Contact
Arizona	
Bullhead City	Richard Phelps
Oracle	Robert Trent Jones, Sr.
Overgaard	Pine Meadows CC Estates
California	
Alpine	Robert Muir Graves
Atascadero	Ted Robinson
Carlsbad	Rec. Dir. David Bradstreet
Chowchilla	Bradford Benz
Davis	Dougherty Farms GC
Delano	Delano Public GC
El Toro	George Williams
Escondido	David Rainville
Fair Oaks	Robert Muir Graves
Fairfield	White Wing Estates
LaQuinta	Lee Schmidt
Lodi	Richard Bigler
Los Osos	Sea Pines GC
Malibu	Robert Trent Jones, Sr.
Malibu	Scott Miller
Modesto	Richard Bigler
Napa	Algie Pulley
Napa	E.G. Craig
Palm Springs	B. Nelson/D.A. Weibring
Palos Verdes	Pete Dye
Patterson	Denis Griffiths & Assoc.
Placer County	Elliott Homes, Sacramento
Rancho California	Johnson & Johnson Corp.
Rancho Cucamonga	Landmark Signature
Rancho Mirage	Gary Player
Redding	Brad Benz
Redding	DBL, Inc.
Redlands	Landmark Signature
San Fernando	Robert Cupp
Sonoma	Robert Trent Jones, Jr.
Stanislaus County	Denis Griffiths
Stockton	J. Moorish, T. Weiskopf
Stockton	Robert Trent Jones, Jr.
Colorado	
Eagle	Richard Phelps
Grand Junction	Wilson Tool Int'l, Minneapolis
Lakewood	Denis Griffiths
Connecticut	
North Franklin	Stephen Kay
Plymouth	G.M. Development, E. Islip, N.Y.
Waterford	Al Zikorus
Florida	
Eastpointe	Lloyd Clifton
Fort Myers	Gene Bates
Jacksonville	Silver Sands CC
Middleburg	Mark McCumber
Naples	Lely Resort
Naples	Robert Trent Jones, Sr.
Naples	Sable Bay Resort
Niceville	Jerry Pate
Orlando	Gordon Lewis
Pembroke Pines	Dick Nugent
Sanibel Island	William Deitz
St. Augustine	Gary Player
Stuart	Ron Garl
Stuart	Tom Fazio
Sun City Center	Sun City Center Golf Development
West Palm Beach	Tom Pearson
Georgia	
Cummings	Mike Young
Duluth	Tom Jackson
McDonough	Denis Griffiths & Assoc.

Location	Contact
Savannah	Hale Irwin
Hawaii	
Big Island	Lee Trevino/W. Graves
Honolulu	Robert Cupp
Honolulu	Ted Robinson
Pahala	Johnny Miller
West Beach	Ted Robinson
Illinois	
Aurora	Ken Kavanaugh
Beach Park	Robert Lohmann
Byron	William Spear
Edwardsville	John Luketich
Galena	Roger Packard
Plainfield	Gregory Martin
Waterloo	William Nobbe
Wauconda	C & H Devel., Arlington Heights
Indiana	
Logansport	Kim Thomas/Bob Simmons
Nappanee	Gary Kern
Springport	Tim Liddy/George Young
Iowa	
Council Bluffs	Wyss Associates, inc.
Kansas	
Shawnee	Donald R. Sechrest
Kentucky	
Bardstown	Roger & Bob Filatreau
Louisville	William Newcomb
Maine	
Bath	Cornish & Silva
Livermore Falls	Mort Beckler
Maryland	
Anne Arundel County	Ault, Clark & Assoc.
Baltimore	Bill Coore/Ben Crenshaw
Glenwood	Willard Byrd
Hampstead	Green GC
Oakmont	Green GC
Ocean City	Ault, Clark & Assoc.
Massachusetts	
Duxbury	Rec. Dir. Gordon Cushing
Gardner	Cornish & Silva
Georgetown	GenCo Development Corp.
Lunenburg	Maplewood GC
Plymouth	Cornish & Silva
Uxbridge	Cornish & Silva
Michigan	
Adrian	John Francoeur
Brownstown Township	Huron-Clinton Metro
Copper Harbor	Keeweenaw Mountain GC
Inkster	Wayne County Exec. Ed McNamara
Manton	Bruce Matthews, III
Novi	William Newcomb
Thompsonville	William Newcomb
Minnesota	
Minneapolis	Turtle Bay GC
New Prague	T.L. Haugen
Paynesville	Joel Goldstrand
Ramsey	Joel Goldstrand
Mississippi	
Natchez	Duncan Park GC
Missouri	
Springfield	Donald R. Sechrest
St. Louis	Bob Ross/P.B. Dye
Montana	
Kalispell	Carl Thuesen
St. Marie	Carl Thuesen
Superior	Carl Thuesen

Location	Contact
Nevada	
Henderson	Rees Jones
Las Vegas	Jack Nicklaus
Reno	Gene Bates
New Jersey	
East Amwell	Group Tech Golf Services
Greenwich	Johnny Miller
New York	
Kinderhook	Cornish & Silva
Lake Placid	Jack Nicklaus
New Hampstead	Gary Player
Southeast	Jack Nicklaus
North Carolina	
Apex	Arnold Palmer/Ed Seay
Burgaw	Charles Adams
Greensboro	Tom Fazio
Marion	Lee Trevino/W. Graves
Ohio	
Boardman	Scottish Pines National GC
Cincinnati	Glenview Muni GC
Columbus	Denis Griffiths
Genoa Township	Jack Nicklaus II
New Albany	Jack Nicklaus
Toledo	Harold Gauthier
Oklahoma	
Broken Arrow	Cedar Creek GC
Owasso	Donald Sechrest
Oregon	
Hammond	Northwest Conference Resorts
Sunriver	Robert Cupp/John Fought
Pennsylvania	
Chemung	David Horn
Corapolis	Arnold Palmer/Ed Seay
Harrisburg	Oakview
Lake Harmony	Robert Sterrett
Mount Joy	X.G. Hassenplug
University Park	Arnold Palmer/Ed Seay
South Carolina	
Hollywood	Dungannon GC
North Charleston	Arthur Hills
South Dakota	
Rapid City	Jim Simpson
Tennessee	
Chattanooga	Robert Cupp
Franklin	Dick Schulz
Franklin	Joseph Lee
Lebanon	Horn Springs
Paris	Kevin Tucker
Texas	
Port Arthur	Von Hagge Design Assoc.
Utah	
Cottonwood/Holladay	Old Mill Valley
Virginia	
Fairfax	Waverly
Floyd	Gene Hamm
Gainesville	Graham/Panks
Williamsburg	Williamsburg Investment Group, Ltd.
West Virginia	
Martinsburg	Leonard-Hannula
Wisconsin	
Janesville	Art Johnson
Mequon	Robert Lohmann
Oak Creek	Milwaukee County Board
Prescott	Rees Jones
Prescott	Rees Jones
Wyoming	
Casper	Casper GC

Courses newly approved in the U.S.

Golf Course News is publishing this list monthly. It includes courses that have been approved around the country in the past month. In addition, the chart on the next page contains the sites and contacts for new courses and renovations in the planning stages. When those courses are ready to begin construction they will be listed again in this "Courses newly approved in the

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Under "Type" — D= Daily Fee; P= Private; and M= Municipal.

Location	Course Name	Type	Holes	Address	Architect/Contact
Alabama					
Birmingham	Liberty Park	N/A	18	Interstate 459	Tom Fazio, Jerry Pate
California					
Beaumont	Oak Valley CC	P	18	N/A	Landmark Signature
Beaumont	Oak Valley GC	D	18	N/A	Landmark Signature
Cathedral City	Desert Princess CC	D	9	28555 Landau Blvd.	David Rainville
El Toro	El Toro Community GC	M	9	Geronimo & Los Alisos Aves.	George Williams, Garrett Gill
LaQuinta	LaQuinta Hotel Grove	P	18	N/A	Landmark Signature
Palm Desert	Big Horn	N/A	18	Hwy. 74 & Cahuilla Way	Ruben Ramirez
Ramona	Mt. Woodson GC	D	18	N/A	Landmark Signature
Rockland	Stanford Oaks GC	P	18	N/A	Landmark Signature
San Diego	Las Montanas CC	D	18	N/A	Jack Snyder
San Marcos	Twin Oaks Valley Ranch	D	18	Twin Oaks Valley Rd.	M.J. Brock & Sons, San Diego
Stockton	Micke Grove Golf Links	M	18	Golf View Dr.	George Williams, Garrett Gill
Florida					
Sarasota	Laurel Oak CC	P	18	7751 Bee Ridge Rd.	Gary Player
Georgia					
Alpharetta	River Pines GC	D	27	Old Alabama Rd.	Denis Griffiths
Monticello	Hunter-Pope CC	P	9	Hwy 82	Mike Young
Indiana					
Ft. Wayne	The Lakes at Sycamore CC	P	18	Aboite Township	Hale Irwin
Mulberry	Deer Track GC	N/A	18	County Rd. 700 W.	David Sheets, S & S Construction
Louisiana					
Slidell	Oak Harbor CC	P	18	N/A	Landmark Signature
Maryland					
Owings Mills	Caves Valley GC	P	18	11745 Park Heights Ave.	Tom Fazio
Queenstown	N/A	D	27	N/A	Washington Brick & Terra Cotta Co.
Massachusetts					
Barnstable	Barnstable Muni GC	M	18	Barnstable Fairgrounds	Cornish & Silva
Harvard	Shaker Hills GC	D	18	Shaker Rd.	Cornish & Silva
Paxton	Paxton Farm GC	D	18	Marshall St.	Robert H. Quirk
Michigan					
Adrian	Wolf Creek Golf Club	D	18	Burton Rd.	John Francoeur
Resort Township	Three Fires Pointe Resort	D	36	Little Traverse Bay	N/A
St. Joseph	Indian Lake Hills	N/A	9	N/A	Marty Kleva, Cole Associates
Minnesota					
Cottage Grove	River Oaks Municipal GC	M	18	US Hwy 61	Don Herfort
Ham Lake	Majestic Oaks South GC	D	18	Bunker Lake Blvd.	George Williams, Garrett Gill
Northfield	Willinger GC	D	18	Rt. 19	George Williams, Garrett Gill
Nebraska					
Omaha	Eagle Run Golf Complex	D	18	3435 N. 132nd St.	N/A
Nevada					
Round Mountain	Round Mountain GC	D	9	60 mi. N. of Tonopah	William Neff
New Hampshire					
Amherst	Souhegan Woods	D	18	Thortons Ferry Road II	David and Phil Friel
Londonderry	Londonderry CC	D	9	56 Kimball Rd.	N/A
North Carolina					
Aberdeen	Legacy Golf Links	D	18	Hwy 15-501	Jack Nicklaus II
Calabash	Pearl Golf Links	D	18	Old Georgetown Rd.	Clyde B. Johnston
Sapphire Valley	Laurel Forest GC	P	9	4000 Hwy 64 West	D.J. DeVictor
Wilmington	Porters Neck Plantation	P	18	N/A	Tom Fazio
Ohio					
Miamisburg	Pipestone	M	18	Benner & Medlar Rds.	Arthur Hills
South Carolina					
Myrtle Beach	River Oaks Golf Plantation	D	9	3400 Hwy 501 North	Tom Jackson
Utah					
Draper City	Traverse Mt. GC	P	18	Traverse Mt.	Johnny Miller
Virginia					
Henrico County	The Dominion Club at Wyndham	P	18	Dominion Club Drive	Ault, Clark & Assoc.
Wisconsin					
Weston	N/A	N/A	18	N/A	John D. Houdek

Egypt Valley CC 'one of my best,' says Arthur Hills

Egypt Valley Country Club opened its 36 holes Oct. 1 in Grand Rapids, Mich., to accolades from its architect, Arthur Hills.

The courses are "absolutely one of the best we have ever done," Hills said.

The layouts — The Valley Course and The Ridge Course — feature a stunning set of vistas among its mix of rolling terrain, trees, meadows, water and mounds.

Hills said the site of the Egypt Valley courses is one the best he has ever worked with. "The whole place lent itself to one good golf hole after another in terms of my criteria. I think it is going to be outstanding."

The course was built by Wadsworth Construction Co.

Bates takes design team international

Golf course architects Gene Bates & Associates, Inc. of Palm Beach Gardens, Fla., is designing new courses in Sweden and Jamaica.

Working with Finnish developer Liisa Lipsanen, Bates is laying out an 18-hole, par-72 facility alongside another course designed by Finnish architect Kosti Kuronen.

The courses will be the focal point of a new destination resort in Mauritzberg on Blaviken Sound about 100 miles south of Stockholm. The courses should be completed in the summer of 1992.

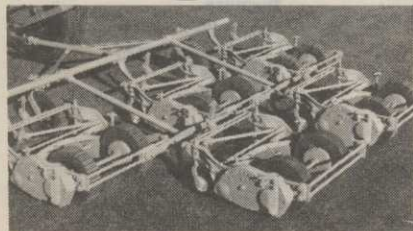
Developer Richard Salm of London is planning an 18-hole golf resort community near the town of St. Ann, 50 miles east of Montego Bay.

Known as Drax Hall Plantation, it is situated on a coconut plantation founded in 1669 by William Drax of Barbados. The site was originally a sugar plantation that changed hands many times over the years.

Plans call for a 6,900-yard, par-72 course located within a residential resort community of golf villas and single-family homes.

The course is expected to open in late 1991.

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GOVERNMENT UPDATE

Florida officials hold off on Green Point

BY PETER BLAIS

Florida Gov. Bob Martinez and the Cabinet will likely wait until after November elections to decide the fate of the Panhandle's proposed Green Point Golf Resort Community, according to a developer.

At an Aug. 14 meeting, the government officials told Franklin County planners they cannot make a decision on the controversial development along the shores of environmentally sensitive Apalachicola Bay until the county revises its comprehensive plan to include the resort, said developer Jack Dodds.

"They basically delayed the vote until after the election," said Dodds. "It hasn't been shot down. It isn't dead."

Critics fear the 540-acre project — which includes an 18-hole course, homes, bed-and-breakfast rooms and business space — could pollute the state's largest oyster fishery.

Dodds said his group has moved golf holes, developed state-of-the-art storm-water runoff systems, reduced residential density and hired specialists to ensure the project won't pollute the bay adjacent to economically depressed Franklin County.

The Franklin County Commission, state Department of Environmental Regulation and both the House speaker pro tempore and

speaker designate support the project.

The state Department of Community Affairs, which oversees land-use planning in environmentally sensitive areas, and about 600 fishermen oppose it.

"We'll continue to negotiate," said Dodds. "The project is simply on hold until we can resolve these issues."

Minus \$311M, Honolulu opens municipal course

BY PETER BLAIS

The West Loch Golf Course will open this month as a municipal facility now that the Honolulu City Council has officially rejected a \$311 million Japanese bid for the course and permits to build two more.

"We're just putting the finishing touches on it now," said Rom Duran, executive assistant to the city's managing director. "It should open in early September."

This summer's unanimous City Council vote against Jurigi Co.'s offer of \$111 million for the Robin Nelson and Rodney Wright-de-

signed course, plus \$200 million for the two permits, ended a bitter struggle between Mayor Frank Fasi and the council.

Fasi wanted to use the proceeds from the sale to build three municipal courses and a number of recreation projects.

The council countered that the West Loch property was originally condemned to be used as a municipal course and must not be sold to a company that would eventually turn it into a private facility.

The battle waged through the spring and summer in both the

council chambers and the press.

"The community supported the idea (of the sale). But the council held fast," Duran said.

West Loch cost the city \$20 million to build. Considering Jurigi's willingness to pay more than five times that price for the facility and the difficulty of obtaining a golf course building permit for a private developer in Honolulu, Duran believes Fasi may put future city-built courses up for sale.

"Given the current mayor, if such an opportunity came along again I think he might follow the same procedure," the city official said.



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Negotiations held to stop deadly Indian protest

BY PETER BLAIS

Representatives of the Mohawk Indians and Canadian federal government began negotiating Aug. 16 over a proposed golf course expansion in Oka, Que. that resulted in Indian barricades leading to the property and a gun battle leading to a policeman's death.

The federal government is reportedly considering buying the 55 acres and turning it over to the Indians of the Kahnasetake Indian Reserve, who claim the area is tribal land. The move would, effectively kill the proposed nine-hole expansion at Oka Golf Club in suburban Montreal.

"It was a nice site," said Canadian architect Graham Cooke, whose office did the preliminary design for the new holes. "It's been two years since we've done any work there. We sent out a staking crew, but the Indians told them to get off the land."

"They (course officials) told us later they had the problem cleared up. But we knew it was just a short-term solution. We knew we wouldn't be going back until everything was cleared up. There was quite a show of arms the last time we were there."

Cooke said he has heard rumors of damage to the existing nine since barricades were erected this spring

along roadways leading to the course. If renovations are necessary, he hopes his firm will be considered.

"There's a shortage of golf holes in the Montreal area," said the former amateur golfer, who finished second in the 1979 Canadian national amateur championship. "We lose a lot of public golfer to Vermont and New York."

"There haven't been many courses built recently because of agricultural zoning laws to protect farmland and a lack of developable land. A lot of people who might have built courses have left the area for political reasons."

"There's a lack of public facilities,

in particular. All the public and private facilities are filled. There's some building going on. But we're a long way off from what we need."

Cooke, who also has offices in British Columbia and Nova Scotia, said disputes involving Indian land claims and private businesses are occurring elsewhere in Canada.

"Our company has had projects out West where land claims are hard to define. But it doesn't get to this stage often," Cooke said.

The town government obtained a court order that the barricades be removed in early July. That led to a gun battle between Quebec Provincial Police and the Indians July

11 that resulted in the policeman's death.

Developers and Indians have reached agreements in the past, Cooke said.

"There's a posh resort on the Kahnasetake Reserve," the architect said. "They negotiated a long-term contract that covers things like hiring Indian workers. They've always had a good relationship."

Testimony complete in Vermont

BY PETER BLAIS

All the testimony has been given and developers are awaiting the decision of the Vermont district environmental board that will determine whether a golf course will be built at Sherman Hollow.

"It's up to the District 4 Environmental Commission," said developer Paul Truax, who has spent five years and hundreds of thousands of dollars pursuing governmental approval of his controversial \$22-million golf resort project. "We could hear any day or it could be another two months."

The commission listened to many hours of testimony during public hearings conducted last winter, spring and summer. Opponents have delayed the project with the help of Act 250, the state's main development-control law.

Truax has not stood still while awaiting the commission's ruling. He recently purchased the Mountain View House and the Spaulding Inn in neighboring New Hampshire. One of the last "grand" hotels in the Mt. Washington Valley, the Mountain View House has a nine-hole course that Truax hopes to expand to 18.

"The course was built around the turn of the century. Many famous people have played it. Dwight Eisenhower was the last president. We'd like to start the new nine next summer and finish it in 1992," said Truax, who is working with Florida architect Charles Ankrom.

Maui zoning laws eyed

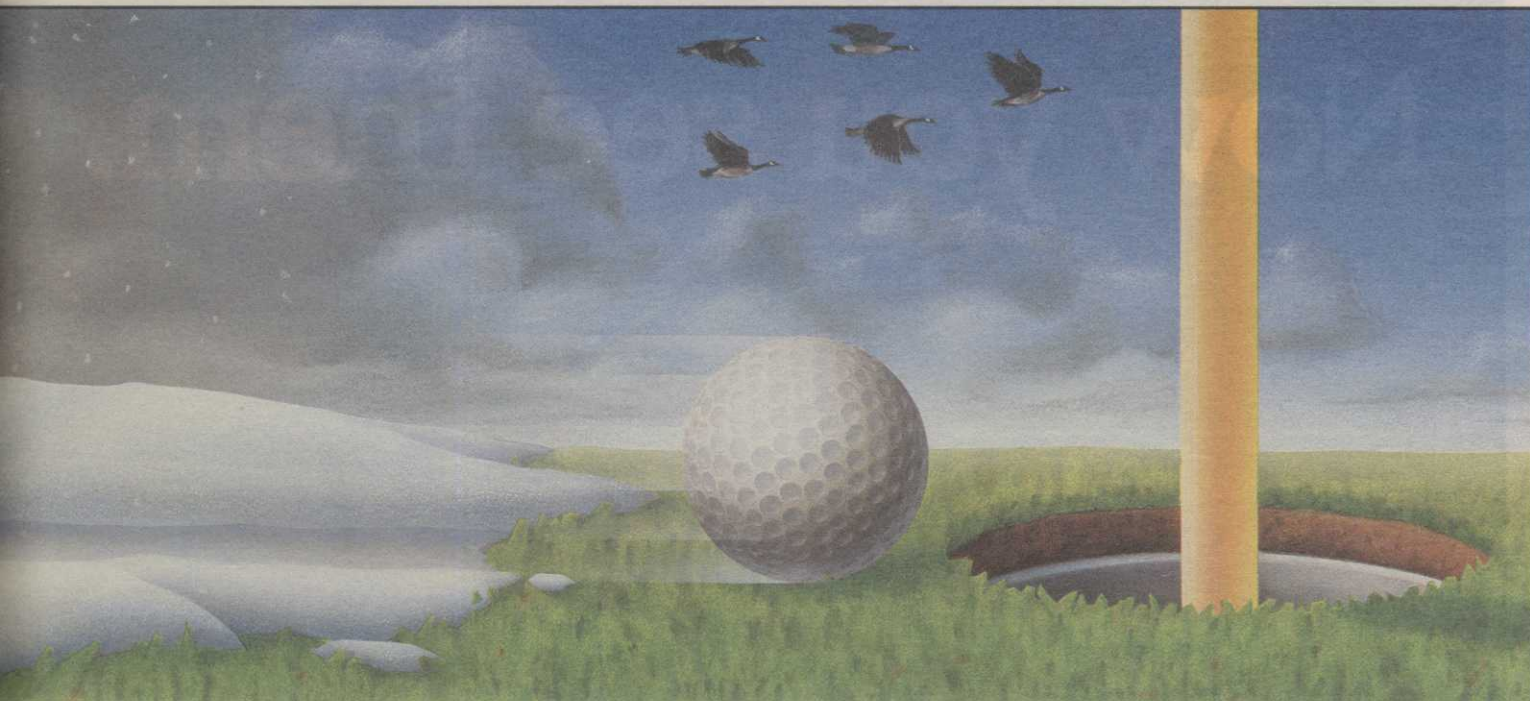
Maui (Hawaii) County officials are considering new zoning laws that would give them more control over golf course development.

Obtaining golf course zoning and designation as parks in county community plans would be required under a proposal supported by the Maui Planning Commission, reported the Honolulu Star.

Currently, county grading permits are all that is needed in some cases to build a new course. Golf course developers of low-valued agricultural land can completely bypass the County Council and Planning Commission.

The proposed ordinance, an outgrowth of the current four-month ban on new courses while officials study ways of regulating course development, is intended to give the commission the chance to consider effects on water, agriculture, archaeological sites and property values.

Golf is booming in Maui County where 11 proposed courses would double the area's total golf facilities. Officials at the Hotel Hana Maui and Manele Bay resort on Lanai have said they want to build courses.



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Morris winner Campbell: Supers' work most crucial

ASSOCIATION NEWS

BY MARK LESLIE

Former U.S. Golf Association President William C. Campbell, selected to receive the Old Tom Morris Award next February, credited golf course superintendents for their difficult work in maintaining "the stage on which the game is played."

Responding to the news of his selection for the major annual award by the Golf Course Superintendents Association of America, Campbell said: "I've been playing golf for 64 years and I take for granted a lot of things ... but I hope I never take for granted ... the work that goes into making a golf course what it is. As Herb Graffis said: 'Golf keeps America beautiful.'"

Announcing the award, GCSAA President Gerald L. Faubel said: "No one has given more to the game of golf than Mr. Campbell. He has dedicated his life to promoting the game and has demonstrated many times his support of the golf course superintendent."

The Old Tom Morris Award recognizes individuals who have made outstanding lifetime contributions to the game. It is in memory of the greenkeeper and golf professional at the R&A, who was a four-time British Open champion and golf course architect as well as club and ball maker.

"I understand (superintendents') problems, the risks of their profession — some of the hazards being human as well, because it's a people business in, too. But the net effect of it all is what makes the game enjoyable," Campbell said. "The golf course is the stage on which the game is played. I know it is not an easy profession. There are a lot of uncertainties."

"I also know that it is more and more a technical position. As chairman of the Green Section of the USGA for a while, I know the high regard the USGA has for the GCSAA and the individuals involved."

Faubel stressed that connection between the two groups as a major accomplishment of Campbell.

Faubel said that during Campbell's tenure as USGA president, from January 1982 to January 1984, Campbell strived to tighten the bonds between the USGA and GCSAA. He launched major fundraising campaigns to fund development of Golf House and to establish test facilities for clubs and balls, as well as a long-term program for turfgrass research, notably in the area of drought-resistant grasses.

Campbell downplays his part, saying he was simply "in the right place at the right time."

"We were fortunate that we had a Green Section Committee chairman, Steve Horrell of Singing Hills Country Club in El Cajon, Calif., a former president of Southern California Golf Association, and Bill Bengeyfield as national director of the Green Section. They were a good team."

"That also coincided with a \$10-

million capital fund campaign by the USGA with help from the GCSAA, PGA of America, PGA Tour and a number of other groups."

He said the GCSAA has an active, ongoing role in raising funds for turfgrass research. That is still ongoing and still taking in a lot of money.

The cooperation of the two groups, Campbell said, has cured the long-time problem of "a relatively small amount of money keeping a number of research



William Campbell

projects going."

"This cooperation was a breakthrough — not just in the results but the methodology of getting it done: raising a lot of money, making a (research) contract, and forming a committee to set the goals and supervise the work."

Campbell, who will receive the award Feb. 12 at the closing banquet of the 62nd GCSAA International Golf Course Conference and Show on Feb. 12 in Las Vegas, Nev., said: "In the modern age it's not enough for each organization to do its own

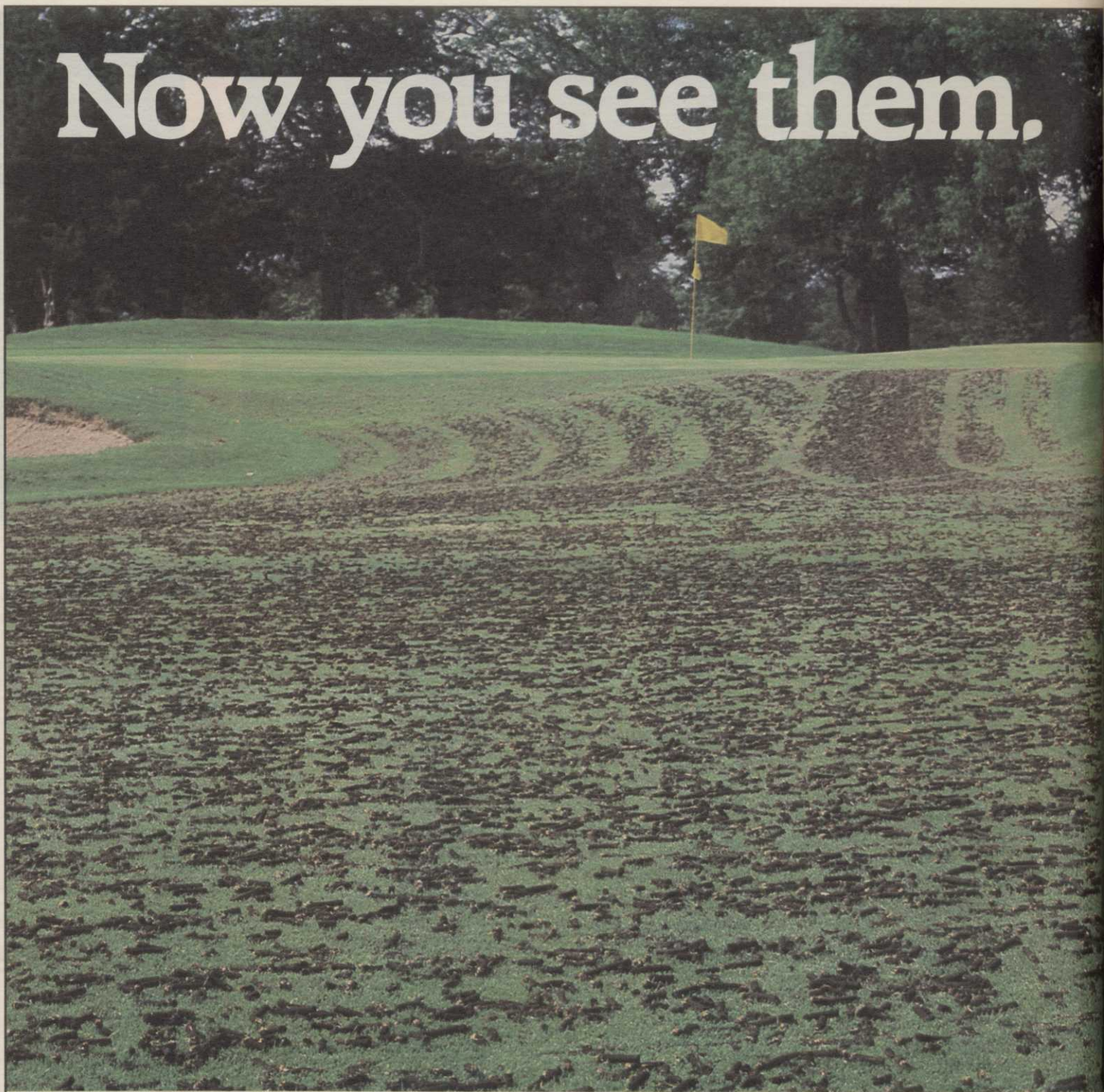
thing... There has been marked improvement — at least in awareness of the importance of these relationships — in sense of people, projects and understandings."

"The USGA has many points of contact with other groups, but nothing's more important than its relationship with the GCSAA."

Elected this year to the PGA World Golf Hall of Fame, Campbell is one of the most honored men in the golf industry.

President and manager of
Continued on page 17

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Hudson taking on PGA post

Susan L. Hudson will assume duties of executive director of the New England Section of the Professional Golfers Association, replacing George Wemyss, who will step down on Dec. 31.

Wemyss, executive director for 21 years, will stay on a full-time consultant to the NEPGA.

Hudson is a 12-year veteran of the NEPGA staff.

President Tom Tetreault said realignments of the tournament staff will make Buddy Young tournament director, and Jack Bates tournament manager as well as assistant tournament director.

Ross Society hails members Nicklaus, Maples

Jack Nicklaus and Dan Maples have joined the Donald Ross Society, an organization formed to honor and help preserve the golf courses of Scottish architect Donald Ross. The announcement was made by Barry Palm, executive vice president of the society.

Winner of 20 major championships and more than 70 PGA Tour

events, Nicklaus is also a golf course architect.

Maples is president of the American Society of Golf Course Architects, whose first president was Ross in the 1930s.

"I am extremely pleased that both Jack and Dan think highly enough of our organization to have joined the society. Their memberships not

only validate our efforts to help Ross courses in their preservation and restoration endeavors, but they lend a tremendous amount of credibility to our organization as a whole," Palm said. "I am sure that the input of both Jack and Dan will be very valuable to the society."

National membership has surpassed 250 and includes former

Masters champion Ben Crenshaw, CBS Sports golf commentator Ben Wright, and ASGCA past President Dr. Michael Hurdzan. The society is also active in scholarship funding-raising activities in addition to its historical and restoration work.

Information is available by writing the Donald Ross Society, 7 Fairlee Road, West Hartford, Conn.

Eleven club managers earn CMAA certification

Eleven club managers have been accredited Certified Club Managers (CCM) by the Club Managers Association of America.

They are Ben H. Whaley, Stone Oak Country Club; Joseph H. Gayle, Oceanside Country Club; Louise

Platto, Vero Beach CC; Philip Archambault, The Weston Golf Club; Micheal Greene; Thomas G. Bertani, Racquet Club; Clifford S. Speechly, Bear Lakes CC; Sandy McGaughey, Greenbriar Hills CC.

Also, James B. Singerling, execu-

tive vice president of the CMAA; William J. Nitschke, Golden Eagle CC; and Donovan F. Carter, Maysville Club.

The candidates qualified for the CCM certification by fulfilling specific requirements over a period of years in

management, experience, education and association activity.

The CCM exam contains 13 subject areas, such as private club administration, managerial accounting, food and beverage operations and principles of management. The exam is prepared and administered under the direction of the Certification Committee at various college and university sites across the country.

N.Y. groups set tournaments

The New York State Turfgrass and Golf Course Superintendents associations are conducting three more Poa Annual Golf Tournaments to benefit turfgrass research and education.

The tournaments and people to contact to register are:

- Sept. 14 at Ives Hill Country Club in Watertown; Bruce Petrelli, 518-483-7943.

- Sept. 17 at Lafayette Country Club in Jamesville; Rick Canale, 607-753-3021.

- Sept. 15 at Mohawk Golf Club in Schenectady; Fred Montgomery, 518-393-9293.

ASGCA releases membership list

The 1990 American Society of Golf Course Architects membership directory, an eight-page pamphlet listing the name, address and phone number for all 109 members, is available.

To receive a free copy, send a stamped self-addressed envelope to: ASGCA, 221 N. LaSalle St., Chicago, Ill. 60601.

Campbell

Continued from page 16

Campbell Insurance in Huntington, W.Va., he was only the third American to serve as captain of the Royal and Ancient Golf Club of St. Andrews, Scotland. During his USGA term, he presided as joint chairman of the World Amateur Golf Council.

The USGA's highest honor, the Bobby Jones Award, was given him in 1965 for his sportsmanship. He received the Golf Writers Association of America's William Richardson Award in 1983 for outstanding contributions to golf.

The GCSAA presented Campbell a Distinguished Service Award in 1985, and the National Golf Foundation presented him its Herb Graffis Award in 1989 for his efforts in preserving the true spirit of the game.

Campbell has won more than 30 golf titles, including the 1964 U.S. Amateur Championship, and he has been on the Walker Cup team eight times, never losing a singles match.

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For free information circle #113

Aspiring architects learn the ropes at Harvard

BY PETER BLAIS

"Everyone knows the Korean War was won by the infantry, except for Old Bob over there," said golf course architect Geoffrey Cornish, nodding across the room toward his co-lecturer, fellow architect Robert Muir Graves. "Being an old Navy pilot, he still mistakenly believes the Navy won the war."

A little later, Cornish was making an architectural point while trying to find the light switch so Graves could turn on a slide projector.

"That's right, Geoff," sighed Graves after Cornish sought professional support while still fumbling for the switch. "Now just shut up and turn off the lights."

No offense was intended and none taken during either good-natured exchange, or



Geoffrey Cornish

many similar ones that occurred during this year's two-day golf course design seminar at Harvard University.

The two past presidents of the American Society of Golf Course Architects have become fast friends while carrying on similar seminars across the country for the past 10 years. The session at Harvard is the sixth since 1985 and has grown with the game.

"We had 30 registered that first year. We're up to 85 this time," said Cornish.

The Harvard seminar consists of lectures and labs, during which students route an



Robert M. Graves

entire golf course, design a single hole and finish by filling in the residential component.

It is aimed at landscape architects, who are becoming increasingly involved with golf courses as part of their projects. There were many in attendance, like Brent Schulz of EDAW, Inc., a landscape architectural and urban planning firm in Washington, D.C. Schulz has worked on golf course/residential projects in Hawaii and Virginia.

"We're starting to get a lot more demand from our clients who want to mix a course into their residential design," explained Schulz

of his presence on the Cambridge, Mass., campus. "We want to do as much work as we can in-house and get more involved in the routing of courses."

But the class was not limited to landscape architects.

Stanton Abrams, president of Senior Tour Players, Inc., which represents such well-known senior players as Sam Snead, attended the session along with Snead's son, Samuel Jr. Sam Sr. is among the growing list of senior players trying their hands at course design.

"Dad wants to get back to the classic designs, along the Donald Ross mold," said Sam Jr. "I want to hear what Geoff and Bob have to say because I'm going to be working with my father."

Beth Moss Engle is a project manager at Weston Hills Country Club outside Ft. Lauderdale, where Robert Trent Jones Jr.'s first Florida course is scheduled to open early this fall.

"We're here basically to get a better idea of what architects are talking about," said Engle, who attended with associate Edward Hill. She said she found the session useful, but took issue with Cornish's suggestion to always get an option on golf course land contingent on obtaining permits, rather than buying the land outright.

"It's tough to get an option on a large piece of residential property that several companies are trying to buy," she said.

Clubhouse architect Bob Bacon, president of Studio b, Inc. in Phoenix, Ariz., said he would be putting his newfound knowledge to work immediately.

"I'm flying to Hawaii Friday to meet with the developer, planner and Jack Nicklaus on a new course we're doing on the South Kona Coast of the Big Island. The golf course and resort must be in balance if a golf resort is going to work. I need to know the architect's objectives and constraints and he needs to know mine. This (seminar) should help me right away. It's the best way to get what I want," Bacon said.

Nora Berard, a manager at Foxborough (Mass.) Country Club, said she attended "because managers should know a little bit about everything having to do with their course." Cornish designed Foxborough 20 years ago and planned a late-June return to the southeastern Massachusetts course to recommend possible renovations.

"We have the original plans, but it will be nice to know what goes through his head when he designs a course," said Berard.

Graves said he is pleased at the cross-section of professionals and their varying interests in the field. As for those aspiring to careers in golf course architecture, "I just want them to appreciate how difficult it is to do a good job," he said. "Anyone can route a course in 10 minutes. But it is a good job. There's so much to it from start to finish. People come up to us after two days and say they never realized how much work there was in laying out a course."

As for what he gets out of it personally, Graves said: "I just enjoy teaching. I taught architecture for a semester at California State University. But I don't have the time to teach classes twice a week now. This gives me a chance to keep my hand in teaching without doing it full-time."

Graves said several of his fellow architects objected to the seminars at first because they encouraged too many people to enter the field.

"I think we do more to discourage people from becoming architects. When we get through, they have a much better understanding of what we do and how much work it entails. We want to make sure those who are still determined to become architects start off in the right direction," said Graves.

Cornish and Graves plan two more seminars this year. They are Oct. 4-5 on Long Island (N.Y.) and Oct. 22-23 in Little Rock, Ark.

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For free information circle #114

Discrimination

Continued from page 1

"There are two totally different issues here," Singerling said. "The club manager is hired to operate the facility and hire employees to do the job as best they can. Where I've been, the members and employees are friends."

Singerling said that at the club he recently managed in Florida, 80 percent of the employees were minorities — "women, blacks and other folks."

"Bylaw, we can't ask background, religion or race" in a job interview, he said.

Patty Knaggs, superintendent at Westchester Country Club in Harrison, N.Y., said she has not seen a single instance of discrimination in any of the five clubs where she has worked. One of those clubs is The Country Club of Brookline in Massachusetts, which has recruited blacks as membership candidates the last two years but still has none.

"We had 65 on our crew at Brookline — Asians, women, Irish...," Knaggs said.

"I've worked with every ethnic background you can imagine, and I've been the first woman hired at several places. The grounds crews have always been very, very diverse."

At Westchester CC, she said her 38-member crew is one-third Spanish, one-third black and one-third white.

"We have Irish, three women and people over 60 who have retired from other jobs," she said. "Plus there are two women besides myself who are in high positions at the club."

Bill Spence, the superintendent at The Country Club, said his crew is a mix of ethnic groups. He has had blacks in the past, though none now.

"Our arms are open to anyone who will do the job and wants to come work for us," Spence said.

Paul Crawford, superintendent at the predominantly Jewish Palm Beach Country Club, said his 12-person crew includes Puerto Ricans, blacks, Mexicans and whites.

Commenting on the great number of blacks and Cubans on crews in Florida, another person in the industry said: "They are the hard workers. Often, it's difficult to find white people who are willing to work that hard."

Referring to the PGA Tour incident at Shoal Creek, the GCSAA's Faubel said: "I feel sorry for the PGA. They're not that kind (segregationist) of organization. The PGA is very high-class and it got caught up into something it could not have thought about."

"It's unfortunate to have one individual at Shoal Creek (make segregationist comments). People in golf just aren't like that. I don't think you will see any problem with clubs being integrated. And it's unfortunate that they (Shoal Creek) are going to have to go out and look for people (minorities to join), because that is not proper, either."

Hiring laws are strict in this country. Faubel uses an employment program his club's insurance carrier provided.

It includes a test that deals with safety, reliability, and working with others.

"We judge applicants with that test. We don't care what color or race they are. We want someone who will get the work done and cooperate with the other workers," Faubel said. "The only thing we have to watch is that we follow the law to make sure they are U.S. citizens."

Neither the GCSAA nor the National Club Association has guidelines to follow in hiring. But the GCSAA has a booklet, "Selecting a Golf Course Superintendent," that spells out, for the golf course manager, the responsibilities, needs and selection of a new superintendent. Nowhere is race, sex or religion mentioned.

The GCSA headquarters is totally inte-

'Most courses allow the crews to play on certain days. Others allow play after a certain hour.'
— GCSAA President Gerald Faubel

grated, Faubel said.

Playing the course

But while minorities are freely hired to tend the grounds at exclusive country clubs, are those same men and women allowed to play the courses?

Yes, at the vast majority of courses.

"A very low percentage of places won't allow play by the crews," Faubel said. "My crew can play at their discretion, making sure

the course is not crowded. Most courses allow the crews to play on certain days. Others allow play after a certain hour."

He said the few courses not allowing play have the same rule for everyone, regardless of race or sex.

Spence said The Country Club crew can play "any time of day. Monday is normally the day at clubs."

"Our club is very generous with playing time. I think it gives employees a chance to

relate better to our work."

No good news

Singerling said that in covering the Shoal Creek incident, the national media has "disregarded anything that may be positive."

He said black golfer Lee Elder's suggestion that private clubs set high initiation fees to keep out minorities "is preposterous. They are trying to maintain a certain environment and level of enjoyment that people of certain degrees of success enjoy."

"To make that claim is to say that any restaurant that lists entrees over \$20 per person is trying to also keep out minorities, and any hotel in the district that is above the Day's Inn rate is trying to discriminate and keep out minorities."

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GOLF COURSE NEWS

Debris management all-year chore

BY PETER BLAIS

It's that time of year when the sweepers, vacuums and blowers are dusted off and brought out of the maintenance shed.

Fall.

Although debris management is a year-

round job, it's primarily the spring and fall, especially in the northern United States, when sweeps, vacs and blowers get the most use, according to Chuck Welch, head superintendent at Sable Oaks Country Club in South Portland, Maine.

"It's sticks, leaves and clippings in the spring. They basically sit idle in the summer, except after storms. Then the leaves come down in the fall. You want something you can depend on those two times of the year, plus

Continued on page 33

Exclusive survey

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Craig A. Marfia CGCS, Golf Course Superintendent Crystal Lake Country Club, Crystal Lake, Illinois reports on his results with Warren's TerraShield protective blankets for greens and tees.



Craig Marfia CGCS

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(Before changing to TerraShield, Crystal Lake Country Club had experimented with another major brand of greens covers but found the turf under those covers got too warm and when they were removed in the spring, the greens couldn't take the shock.)

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Case of the British Revolution

BY BRADLEY S. KLEIN

The classic model of the British greenkeeper is a rough-clad gardener with a rake who fertilizes his golf course with a vile compost of seaweed, cattle blood and iron filings. At many courses in England, Scotland, Wales, Ireland and Northern Ireland, there's a man in overalls who fits this picture. But thanks to the efforts of the recently formed British and International Golf Greenkeepers Association, the image is rapidly changing.

For centuries, the assumption was that British golf was a natural affair, played on linksland soil that

needed little tending. Man could scarcely improve upon it. The sandy soil drained well, rabbits and grazing animals nibbled their modest parcels of turf, and irrigation was assured by nothing more than the vagaries of a wet climate.

This "links style" of greens maintenance held sway over part of the British greenkeeping profession. Yet today, as conditions in the industry have changed so dramatically, the classic image is under scrutiny.

The demand upon golf courses has grown steadily the past 150 years. The advent of the gutta-percha ball around 1850 rendered

obsolete the expensive old "featherie" ball. Suddenly, golf became accessible to the middle classes. The old links became heavily played — indeed, overplayed.

A need arose for someone to tend the playing surfaces and repair damage to the course — someone who could muster all the artifices that agricultural science could devise. The first fulltime greenkeepers came into the picture near the end of the 19th century.

To meet the growing demand, courses were built inland, on sites previously regarded as ill-suited

for the game. Well-draining sand-based courses were one thing. Heathland and parkland soils were quite another. These heavier soils had to be drained or mud would overtake the course in spring and winter. These problems could not be addressed by traditional means.

A new generation of inland architects, including C.H. Alison, H.S. Colt and Alister MacKenzie, began addressing drainage and proper turf.

Largely to meet the demands of inland courses, the Board of Greenkeeping Research, later renamed the Sports Turf Research

Institute, was founded in 1929. However, this research unit was not, until recently, tied to a comprehensive organization encompassing British greenkeepers.

National identities and interests led England, Scotland and Ireland to maintain their own greenkeepers associations.

Funding was scarce, formal educational opportunities were few, and a longstanding tradition of fierce independence among the various keepers of the green assured parochialism in the ranks. This legacy proved so strong that a 1987 discussion document, *The Way Forward*, dealing with British golf course management and issued by the Royal and Ancient Golf Club Greenkeeping Panel, observed "British golf's historical attitude to greenkeeping (in marked contrast to America) has been — and still is, in many cases — astonishingly disorganized, penny-pinching and arrogant."

Still, one could have added, "amazingly successful."

Most British golf courses have fulltime greenkeeping staffs of four or five. Royal Dornoch, one of the world's most highly regarded courses, has nine fulltimers for its 36 holes.

The only fertilizer ever used there is liquified seaweed. To this day, fairways are not watered. A hand-operated watering system reaches only greens and a handful of tees. An on-course well delivering 40 gallons of water per minute suffices for both courses.

Romantic? Yes.

Practical in today's high-pressure world of golf course maintenance? Perhaps not.

But it's this dichotomy — old versus new — that makes greenkeeping in the British Isles so fascinating.

SUNY-Delhi hosts seminar on building

A seminar on golf course construction and renovation, featuring Joseph Hahn, Dr. Norman Hummel and Dr. Michael Hurdzan, was held Aug. 21 at the State University of New York at Delhi, N.Y.

The New York State Turfgrass Association coordinated the seminar, proceeds from which benefitted the student golf course internship at SUNY-Delhi.

Hahn, superintendent at Oak Hill Country Club in Rochester, N.Y., reviewed his road to hosting the 1989 U.S. Open.

Hummel, of Cornell University, presented a session on green construction concepts and sand selection. He demonstrated water movement in different soil mixtures and working models of greens profiles.

Hurdzan, of Hurdzan Design Group in Columbus, Ohio, has designed more than 100 new golf courses and some 200 renovation projects in the North America and Asia.

He discussed an architect's view of design and specifications.



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Continued from page 1

tournament week and that half the year it is closed. The argument does not hold in Britain, where there is enormous pressure from television viewers and world travelers to water everywhere and fine-tune greens.

According to Jimmy Kidd, estates and golf courses manager of Gleneagles Hotel, British-style greens, comprised of sand and peat, lack antagonistic antibodies and bacteria needed to sustain close cuts.

"Especially on new courses, it takes about seven years to stabilize growth," Kidd said. "If you try to cut your greens down to tournament levels of one-eighth inch, you put your fescues at risk. And when you've had a tournament, it takes several years to recover."

Added Thomas: "The most controversial issue in this country is the degree of poa annua, whether it should be eliminated, whether it's feasible to eliminate it — and at what price."

The classic view is that poa annua is tolerable — and given the wet climate, scarcely avoidable. But some modern greenkeepers insist on doing away with annual meadowgrass and are investigating a new regimen of pesticides and fungicides.

In the mid-1980s James H. Arthur, advisory agronomist to the Royal and Ancient Golf Club, argued for traditional links-style golf. He called for the smallest amounts of water and fertilizer needed. To promote growth, he advocated nitrogen and organic nutrients, not potassium and phosphates.

His widely publicized views split the British greenkeeping industry. Several inland superintendents lost their fairways — and their jobs — following Arthur's advice.

The fact is, no single maintenance program works in countries where local soil and weather conditions vary so markedly. A seaside course may have porous sandy soil, while 10 miles inland another course will be heavy clay or marshy heathland.

Overall, British greenkeeping is emerging from traditional concerns. Compared to the United States, British greenkeeping enjoys — or suffers from: smaller budgets; the application of far less water and fertilizer; cooler weather conditions, with higher humidity; more rounds than courses were designed to handle; courses remaining open year round; and members accustomed to far more modest fees.

Bradley S. Klein is a freelance golf writer who lives in Bloomfield, Conn.



A greenskeeper mows at St. Andrews' 17th — the Road Hole.

Tony Roberts photo

Sizes of the greens at The Old Course at St. Andrews are startling, compared to the average course's 5,000-square-yard greens.

St. Andrews' sizes follow:

#1	19,926
#2&16	23,751
#3&15	32,760
#4&14	41,031
#5&13	61,380
#6&12	49,608
#7&11	44,604
#8&10	50,058
#9	22,572
#17	29,250
#18	22,842
Total	397,782 sq. ft.

Average size each green: 36,162 (x11=397,782)

Average size each hole: 22,099 (x18=397,782)

Maintenance schedule: Of hoofs and horns

Gordon Moir is head greenkeeper at Fraserburgh Golf Club on Scotland's Buchan Peninsula, just north of Aberdeen. His course is exposed on three sides to the North Sea. There is no drainage in his fairways. Only greens can be waters. On average, the course receives

between 22 and 27 inches of rain per year and is exposed to dry winds throughout the summer.

The 27-hole layout was designed by James Braid after World War I. Its 6,220-yard medal course hosts 16,000 rounds annually. The greens staff has four fulltimers and one student trainee. Moir and two assistants are "qualified" — graduates of technical institutes.

The maintenance budget this year is \$135,000 — half for salaries and the rest for equipment and supplies. Moir earns \$20,000 per year.

Maintenance at Fraserburgh calls for triplex cutting of the greens six days a week in season

and one cut per week through winter. In the summer, greens are verticut every week and top dressed every four or five weeks.

The recipe for Moir's special mixture of fertilizer treatment sounds — and smells — like a witch's brew. To every 100 square yards of turf, he applies three pounds of sulphate of ammonia, one pound of hoof and horn (pulverized hoof and horn of cattle), one pound of dried cattle blood, one pound of potash, and a half-pound of iron sulphate. All that's missing is the tongue of newt. The mix is bulked up with sand and applied by hand.

BIGGA is bigger by far than 1987

The British and International Golf Greenkeepers Association has grown to 3,500 members since being formed in 1987.

Its monthly journal, Greenkeeping Management, covers the latest developments in the field. The association's annual conference/exhibition is already a mainstay of the European golf scene.

At this year's British Open, BIGGA had one of the busiest hospitality tents. Its members, including those from a dozen countries outside Britain, helped the greens staff and accompanied each group of golfers to rake bunkers.

Through its conferences, certification program, and its own research, BIGGA has become a force in British golf. It works with the Royal and Ancient, the Sports Turf Research Institute, and, most importantly, traditional greenkeepers.

For further information, contact BIGGA at Aldwark Manor, Aldwark, Airedale, York YO6 2NF, England; 011-44-3473-581.



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seen, especially in the mornings. Banner®
fungicide at 1-2 oz./1000 sq. ft.
provides low cost-per-day-of-control, pre-
venting disease for up to 28 days.

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For free information circle #124

Buffalograss

Continued from page 1

according to superintendent Tim Long. All 18 holes should have some Prairie by late fall.

Prairie will be commercially available on a limited basis this fall, to a greater degree next spring and in full production by 1992, according to Texas A&M Associate Professor Milt Engelke.

Buffalograss 609 developed at the University of Nebraska will be placed in additional rough areas this fall, said Associate Professor Terry Riordan. It will be available on a limited basis the next two years and in full production by 1993, said Riordan.

While buffalograss can be clipped and prosper as low as the 3/8-of-an-inch common on many fairways, it is being bred for the rough.

"Some of the grasses we're developing could be used in fairways," said Riordan. "But that's not our goal. We want to use them in low-maintenance areas."

"They'll never replace bentgrass or Bermuda greens. Genetically, it's just not the same grass. But it could function that way. It's certainly better than bare ground."

Added Engelke: "You won't find it going into the fairways at expensive, private courses. But there are

a lot of courses out there with \$100,000 maintenance budgets where it could prove popular. It's a very acceptable product that can be maintained well with little water, mowing or pesticides."

Compared to hybrid bermudagrass, which dominates Southern courses, Engelke said Prairie buffalograss:

- requires one-fourth the water;
- thrives on one-third the nitrogen, one to two pounds annually per 1,000 square feet compared to four to six pounds for Bermuda;
- is more resistant to turf diseases and insects so requires less pesticides, fungicides or herbicides;

- can be mowed as infrequently as once every two months as opposed to once a week for Bermuda.

- leaves fewer clippings to dispose of after mowing;

- has slightly better shade tolerance and requires an average of just two to three hours direct sunlight;

- tolerates severe cold having survived minus-43 degree temperatures last winter while bermudagrass was dying throughout the South;

- greens up earlier and goes dormant later, and;

- resists soil compacting better and is well suited to heavy traffic

areas like cart path aprons.

But all is not roses. There are drawbacks.

The major one is availability. With only 100 acres currently in production, Prairie sod's price of \$3.50 to \$4.50 per square yard is double hybrid Bermuda's \$1.50 to \$2, Engelke said. That should change as production increases.

"Prairie will be about the same price as Bermuda within a couple of years," the Texas A&M professor predicted.

Prairie doesn't turn the dark green of Bermuda, although that can be helped along with additional nitrogen. On the other end, when it goes dormant, Prairie turns a deep golden color that Engelke said is "quite pretty."

"Buffalograss may not be a panacea. But it's certainly an alternative for today's environment-conscious courses," said Engelke.

Barton Creek's experience

The Crenshaw course at Barton Creek, scheduled to open next spring, was a logical initial site for buffalograss since Crenshaw Douget Turfgrass Inc. is licensed to market Prairie and 609.

"We put it (Prairie) in the buffer and transition zones from the native areas," said Long, whose new course is planted primarily with Bermuda 419. "It's adjacent to critical environmental features (primarily Barton Creek) because it has low fertilizer requirements. And we shouldn't have to mow it after the first year."

Prairie grows to a height of six inches.

"The ball is still playable even at that height. And Crenshaw likes its aesthetic value as a transition to the taller native grasses...It has kind of a feathery look and waves in the wind," Long said.

Barton Creek is in a semi-arid area, receiving an average 32 inches of precipitation annually.

"Hopefully we'll just have to water it once a week or so in summer to maintain its color," said Long. "We water the Bermuda five or six times a week from May through September."

"It has great cold tolerance, too. All the courses planted in Bermuda around here really suffered last winter. But a small plot of Prairie we had came through just fine. I understand they can grow it well into Canada."

Whereas Bermuda can only be planted about six months a year, Prairie's cold tolerance allows it to be planted basically year-round. That will allow Barton Creek developers to continue planting Prairie along roadways and in residential areas this winter, Long said.

"If they don't have to irrigate those areas it will mean a considerable capital expense savings," the superintendent said. "And they shouldn't have to mow it more than once or twice a year."

Buffalograss is a dense-growing turf with an extensive root system, helping it stabilize and control erosion along steep surfaces. Extreme slopes and bunker faces were the first places Long installed the Prairie sod. Sprigging the remaining

Continued on page 25

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For free information circle #125



A worker installs prairie buffalograss alongside a bunker at the 17th hole of the new Ben Crenshaw-designed course at Barton Creek Country Club in Austin, Texas. This Texas A&M-developed buffalograss is one of the new semi-arid grasses being developed around the

Continued from page 24
rough started in August.

The future

"Over the next six to 10 years perceptions about buffalograss will change dramatically," Engelke said. "Buffalograss is at the same stage as tall fescues were in the early 1960s. Over the next decade, tremendous advances were made in tall fescue color, mowing heights, water usage.

"Comparing buffalograss to other turf types is like comparing the Model T to today's cars. But in 10 years you'll see similar changes to those we saw with tall fescues. It's a tremendous plant for the future. But we're just opening the door. Buffalo and zoysia will be the dominant warm-

climate grasses of the next decade."

One of the major changes will be the availability of buffalograss seed. Prairie and 609 are both vegetative-type grasses, meaning they are available only as sod, plugs or sprigs.

"We're working with companies that hope to have buffalograss seed available within a couple of years," said Riordan.

Prairie and 609 were both bred for Southern courses, said Riordan, who is taking over much of Engelke's buffalograss research allowing the Texas A&M professor to concentrate on bentgrass and zoysia.

But buffalograss will eventually be available throughout North America. Experimental

plantings have thrived from British Columbia to Florida.

The next wave of buffalograsses, some of which will be released next spring, will be better suited to Northern Plain and Western courses where Kentucky bluegrass dominates, Riordan

said. The new buffalograsses will require 50 percent less water, fertilizer, pesticides and mowing than bluegrass, he added.

"It will be valuable anywhere water and environmental issues are important. It's much more adaptive than we ever thought," Riordan said.



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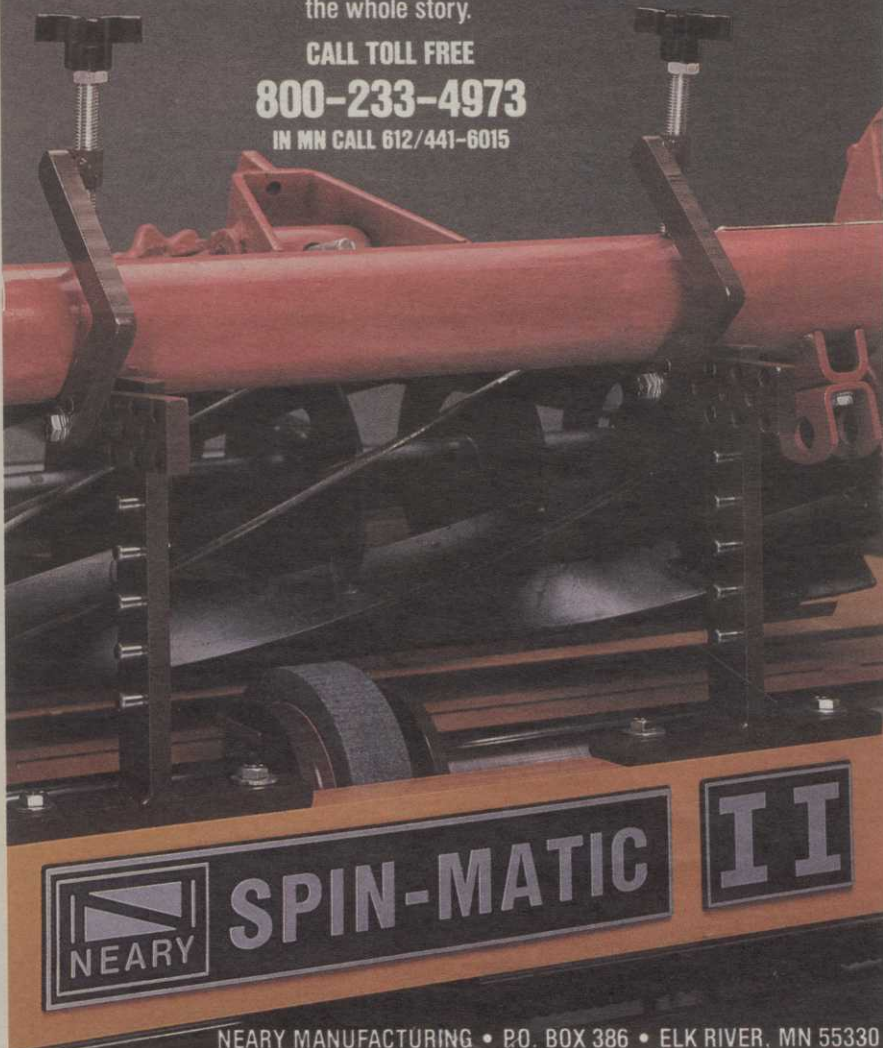
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For free information circle #126

Isolite

Continued from page 1

is formed from diatomaceous earth and processed at more than 1,800 degrees.

A former golf course superintendent, Haines said Isolite (pronounced ees-o-lite) has "uncountable applications" for his ex-colleagues.

"From a both a technical and practical standpoint, it's going to be a big, big product because there are many, many different things you can do with Isolite," Haines said after his firm introduced the Japanese product to the United States at Sadona (Ariz.) Golf Resort, the site of several tests.

"It has tremendous water-saving capacity, especially with the sand greens we're growing grass on now, and these sandy soil areas where water percs right through the sand profile," Haines said.

"We're going to have a lot of wars in the very near future on water use. You realize in talking to people in California, Arizona and Nevada, that water is getting to be a very, very serious thing.

"We hope this will be a solution."

Seth Hunt, president of Foremost Solutions environmental consulting company in Denver, Colo., and former personal assistant to the Environmental Protection Agency in Washington, D.C., is one of many who believe it will be a solution for many areas outside golf courses.

A member of New Concepts' board of directors, Hunt said research and development scientists at the EPA are interested in investigating Isolite.

"Everyone on the environmental side is excited about it," he said. "Scientists hear of it and immediately their minds get in gear and they think of new ideas for it."

Hunt said Isolite has "no environmental liabilities. It's an asset to the environment. It reduces fertilizer use. It reduces pesticide use. It has no toxic biproducts."

One of the more interesting ideas for its use was as a layer above a hazardous waste site.

Meanwhile, Haines said Isolite also saves in fertilizer costs, holding fertilizer so it doesn't leech through the soil.

Haines said Isolite has no similarity to polymers. "Imagine holding a sponge in your hand. The sponge absorbs the water because the pore spaces fill with water. Isolite is the exact same thing as the sponge except it is hard. It will neither contract nor expand. It's a hard sponge full of pores that fill up with water. You can't wring out the water out like you can a sponge but the grass roots can extract that water from the Isolite particles."

He added that Isolite also "holds air in some of the pore spaces and provides an ideal environment for the micro-organisms that we must have in the soil in order to grow grass," he said. "Where do the roots grow in the plant? They grow in the pore space between the soil particles. That's where the fertilizer, water and air and everything else are... So the more porosity we can provide, the more friable our soil is, the better plants we can grow in it and the better things we can do

with it."

New Golf Concepts President William D. Leary says, "The benefits in water conservation and environmental enhancement which Isolite can provide to America are phenomenal."

And the firm's publicity claims Isolite "has the ability to reduce water usage 50-65 percent."

But Haines moderates that statement.

"You might save that much under an ideal situation, but I don't like to say that," he said. "In the real world I think we're looking at savings closer to 25 to 40 percent, depending on the soil type."

He said Isolite has applications

'From a both a technical and practical standpoint, it's going to be a big, big product.'
— Lou Haines

on both ends of the soil scale from a tight clay to an open sand and pretty much everything in between, depending on what you want to do.

Meanwhile, a note of wariness about any new product on the market was added by Bill Bengueyfield, recently retired national director of the U.S. Golf Association Green Section.

Bengueyfield said "legitimate research" must be done by scientists independent of the company.

"There are so many slips twixt the cup and the lip... Independent research just has to be done on it... The company's tests don't count in the world of science," he said.

Indeed, New Golf Concepts plans other tests besides the one at Sadona.

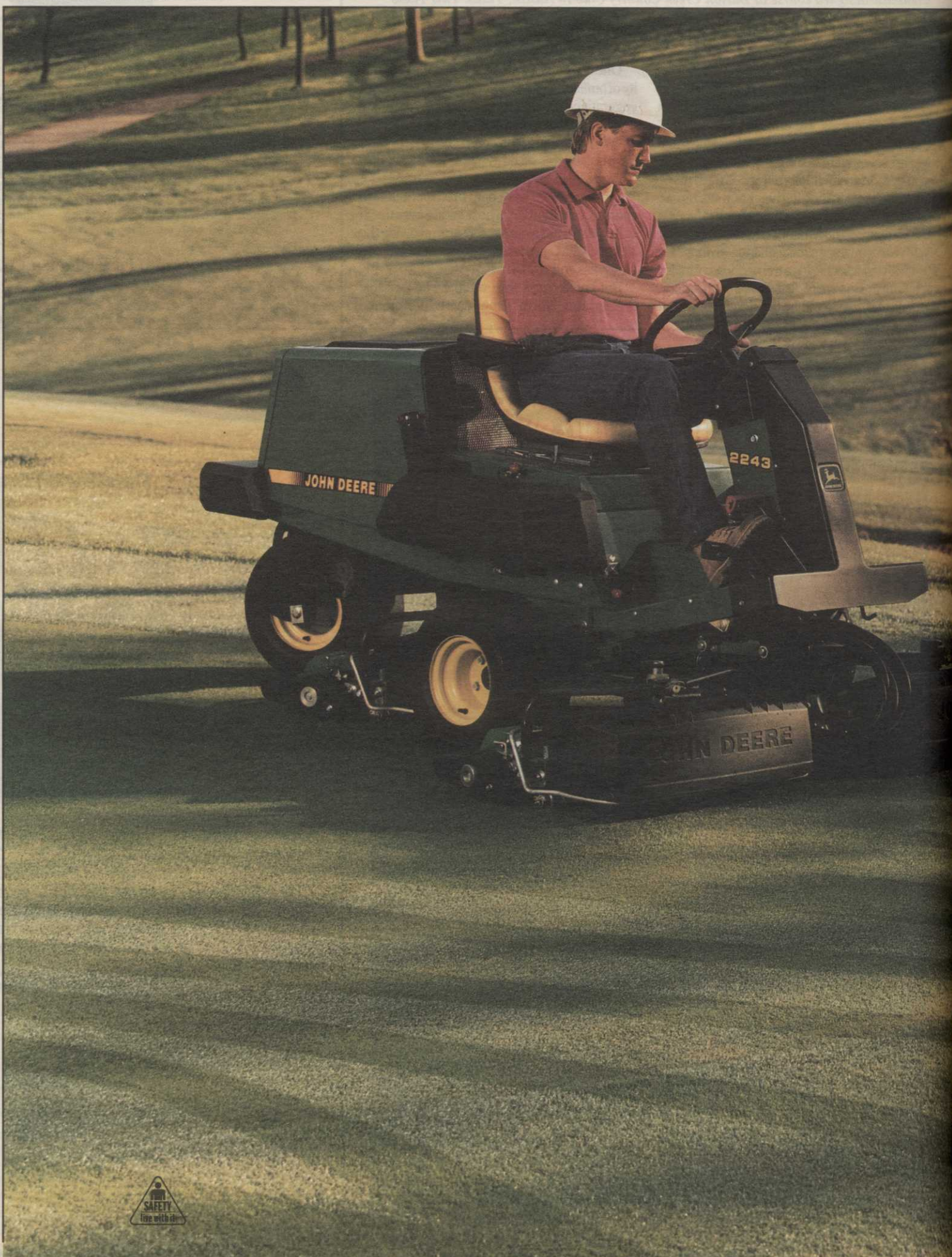
Haines projects that Colorado State University will apply Isolite to a USGA-spec sand green; a replica of a bentgrass fairway; and to clay soils "to see how well we can open

up clay to increase porosity and percolation and prevent compaction... which is one of the main nemises on the golf course where there are cart paths and high-traffic areas."

He said the company is also negotiating with other universities to perform tests in other areas of the country.

"We want to get testing established in different soils and climatic conditions," Haines said. "We will have some excellent results by this time next year from our Colorado State studies. For the other studies, it will depend on how quickly we can get them started."

Continued on page 27



Isolite

Continued from page 26

"It will take a year for meaningful and objective results to report. But at the same time we are getting more and more information from the Japanese studies. The Tokyo Agricultural Experimental Station results will be in hand in August."

Isolite is being used on 15 percent of the 1,500 golf courses in Japan, where it has been developed for nine years. The results there reportedly have been "dramatic," according to New Golf Concepts.

Isolite is incorporated into the ground through aerification, verticutting, and slit-trench machines. But Haines said it is ideally added during construction when it is tilled

into the top six to eight inches of soil.

"There is no such thing as a panacea," Haines said. "As a former superintendent I know that. We've just got a good, practical product that is going to help superintendents solve a lot of problems."

"And you can't go wrong with it. It is basically an inert product. You can't burn with it, or change soil pH with it. There's no chemistry to it. You're just putting a bunch of sponges in the soil."

It's cost?

"It's a little high right now, but I think we will get a price reduction soon," said Hunt. "We will pass any price reduction on to the end user."

GCSAA board to play Canadians

The board of directors of the Golf Course Superintendents Association of America will play its Canadian counterpart in the first of what will hopefully be an annual tournament, according to GCSAA President Gerald Faubel.

The Americans will tee off Sept.

27 at Club de Golf Cedarbrook in St. Sophie, Quebec, against the team from the Canadian Golf Superintendents Association/Association Canadien Superintendents de Golf.

Faubel issued the challenge to the Canadians, and the GCSAA is providing the trophy — the Board

of Directors Cup.

Faubel said the winners will hold the cup for one year.

He hopes the Canadians will accept an invitation to play in the United States in 1991.

He was unsure what format the tournament will take.

Oakmont CC lures Latshaw back

Paul Latshaw, the only superintendent to host three of golf's four major professional championships, will be returning to Pittsburgh's Oakmont Country Club in early 1991.

Latshaw was head superintendent from 1975 to 1987 at Oakmont,

site of the 1978 PGA Championship and 1983 U.S. Open. From 1987 to 1989 he was in charge of Augusta National Golf Course, home of the Masters.

Latshaw has been head superintendent at Wilmington (Del.) Country Club since May of last year.

Oakmont will host the women's 1992 U.S. Open and the 1994 men's U.S. Open.

"He missed the challenge of big tournaments. He likes that arena," explained Latshaw's wife, Phyllis, of her husband's decision to leave Wilmington.

Oakmont general manager Pat LaRocca said he expects Latshaw to arrive in Pittsburgh around Jan. 1.

"He's the greatest guy in the world," said LaRocca. "I have a lot of respect for him. When the situation arose, he was our first choice."

Stonecreek clubhouse open this fall

Stonecreek, The Golf Club, broke ground on a new 17,000-square-foot clubhouse in late spring and is scheduled for completion this fall at the Paradise Valley, Ariz., course.

The two-level clubhouse will overlook the first tee and will eventually be surrounded by the Paradise Valley Urban Village. The facility includes such features as a 120-seat restaurant, a golf shop, state-of-the-art golf instruction facilities with classrooms and video screening areas, men's and women's lockers, shower facilities, underground golf car storage and a snack bar.

The clubhouse was designed by Cornoyer-Hedrick Architects & Planners, Inc. and Huntcor is serving as the general contractor on the project.

Florida firm gives away 10,000 trees

AmerAquatic, Inc., of Deerfield Beach, Fla., which is involved in lake and wetland management, has donated more than 10,000 red maple seedlings to a number of south and central Florida environmental and agricultural organizations, according to President Thomas Latta.

AmerAquatic has initiated an extensive research project at its Sarasota, Fla., facility to propagate a selection of indigenous wetland trees from seed and introduce them back into their native environments.

Due to the high yield and abundance of the red maples, AmerAquatic donated the seedlings, on flats, to the Broward County Extension Service, which distributed the plants to organizations in Broward, Palm Beach, Lee, Martin and Sarasota counties. Many of these recipients have either redistributed the trees to private groups or citizens or are nurturing the seedlings in pots until they are ready to be established in-ground in wetland zones.

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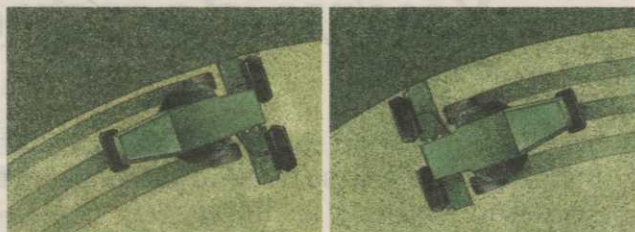
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Offset cutting units on the 2243 allow you to stagger your wheel tracks by simply changing your direction of cut.



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BUSINESS NEWS

Sauey honored

Columbia ParCar's chairman, W.R. Sauey, has been chosen "Master Entrepreneur" by Ernst and Young — an accounting, tax and consulting firm in Milwaukee, Wis.

Chosen by a panel of 10 Wisconsin business people, Sauey was one of four entrepreneur award winners who were honored.

Sauey was selected as a Master Entrepreneur (an award not given before) because, the panel said: "After 44 years of entrepreneurial activity, William Sauey could easily hang up his entrepreneurial hat and admire his track record but, because this isn't his style, we honor him with the master entrepreneur award."

Sauey is chairman of the Nordic Group of Companies, Ltd., a holding group of eight companies that have combined annual sales in excess of \$120 million and employ 1,300 people.

Columbia ParCar Corp. is part of the Nordic Group.

Sauey started his first company, Flambeau Plastic and Machine Co., in 1948 with a loan of \$1,500.

His award places him as a nominee for national recognition in Inc. Magazine's 1990 national entrepreneurial awards program. Winners will be announced in the January 1991 issue.

Teledyne sells N. American sales rights

Teledyne Total Power will sell to Ruggerini Motori S.P.A. and Deutz Corp., the North American distribution rights for those Ruggerini models that Teledyne has marketed since 1986 as its Wisconsin "R" Series of air-cooled diesels.

According to Teledyne and Ruggerini executives, the purchase agreement is part of a general restructuring of Ruggerini Motori S.P.A.'s worldwide marketing and distribution programs.

Distribution of the engines and support services will be transferred to Ruggerini during a transition period that was scheduled to be completed by Sept. 1.

Officials have already begun efforts to contact all affected parties, and have expressed confidence that both Teledyne and OEMS currently using the Ruggerini models will continue to have full service and warranty support and protection. Teledyne will continue to be involved in certain government procurements now in process beyond that point.

Jay Peck, Teledyne vice president of sales and marketing, said, "This agreement in no way indicates that Teledyne does not fully intend to maintain a position of strength in the air-cooled diesel engine market."



W.R. Sauey

Grace-Sierra opens fertilizer plant in South Carolina

Grace-Sierra Horticultural Products Co. has opened a manufacturing and distribution plant in North Charleston, S.C.

Operations will be dedicated to coating controlled-release fertilizers with an organic-based resin.

Both the fertilizer and the resin will be manufactured at other facilities.

Situated on a 6.3-acre site, the facility is the company's first plant on the East Coast dedicated to controlled-release fertilizers. Grace-Sierra has other controlled-

release fertilizer manufacturing and distribution centers in Milpitas, Calif., and Heerlen, The Netherlands.

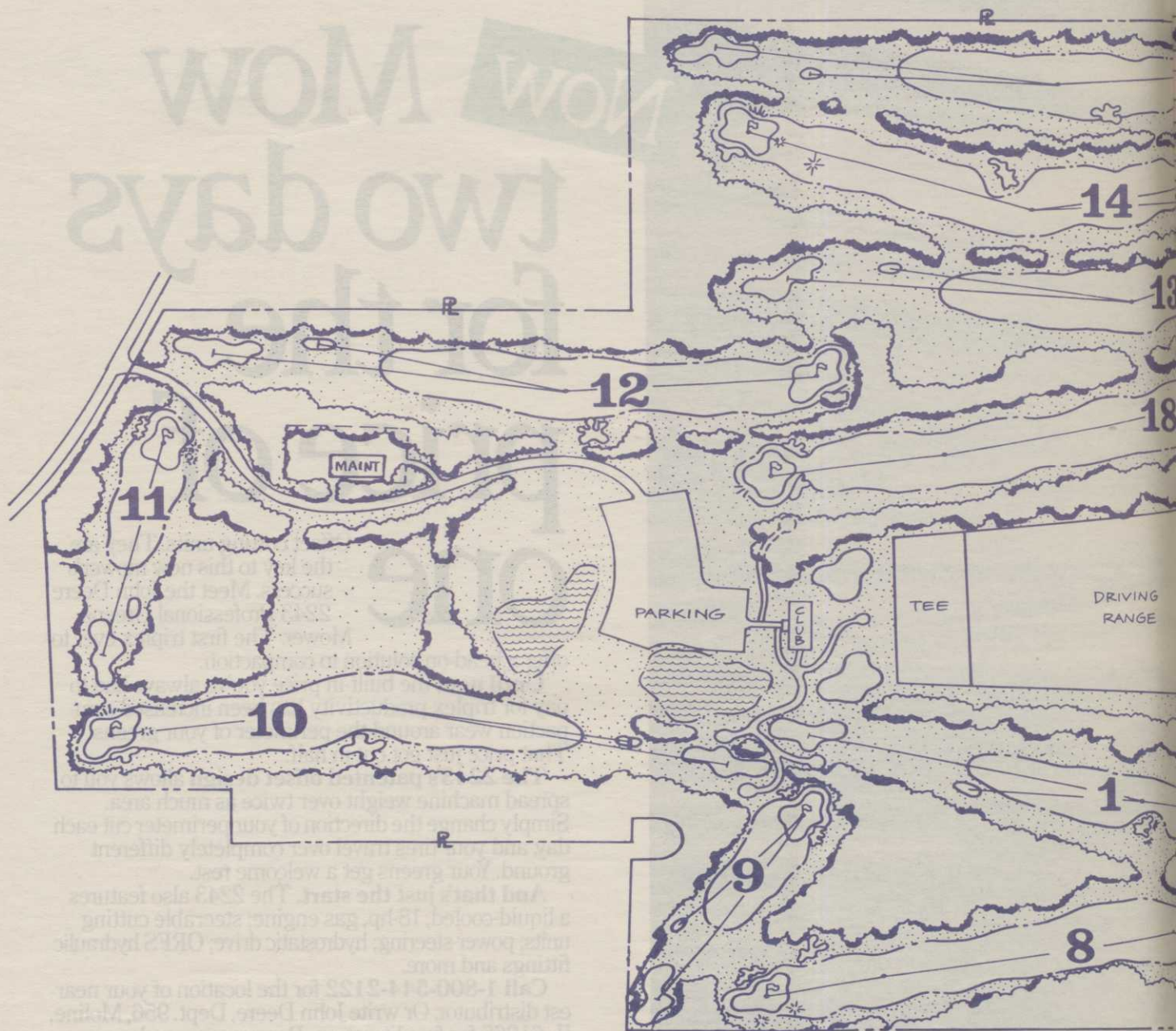
The company markets fertilizers to commercial growers, nurseries, garden centers and consumers throughout the United States, Europe and the Pacific Basin.

"We are delighted to announce the expansion of our controlled-release fertilizer operations to the East Coast," said President Jay Rossi. "This new facility signifi-

cantly expands Grace-Sierra's production capabilities to meet the growing demand for Osmocote by growers based on the East Coast."

North Charleston Mayor John E. Bourne Jr. welcomed the company, saying, "We are delighted that our community was selected as the site for this important Grace-Sierra facility."

Grace-Sierra Horticultural Products Co. was formed in 1989 by the merger of W.R. Grace & Co. and Sierra Chemical Co.



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to promote vigorous seedling growth and root development. And its homogenous, free flowing, high density particles provide even distribution of required nutrients.

You don't have to worry about it burning or quitting early, either. HD Starter uses a readily-available phosphorus source (monoammonium phosphate) to stimulate rapid response and safely transform newly seeded areas into thick, attractive turf. While controlled-release nitrogen assures sustained, vigorous top growth.

Lofts adds pesticide applicators' certification

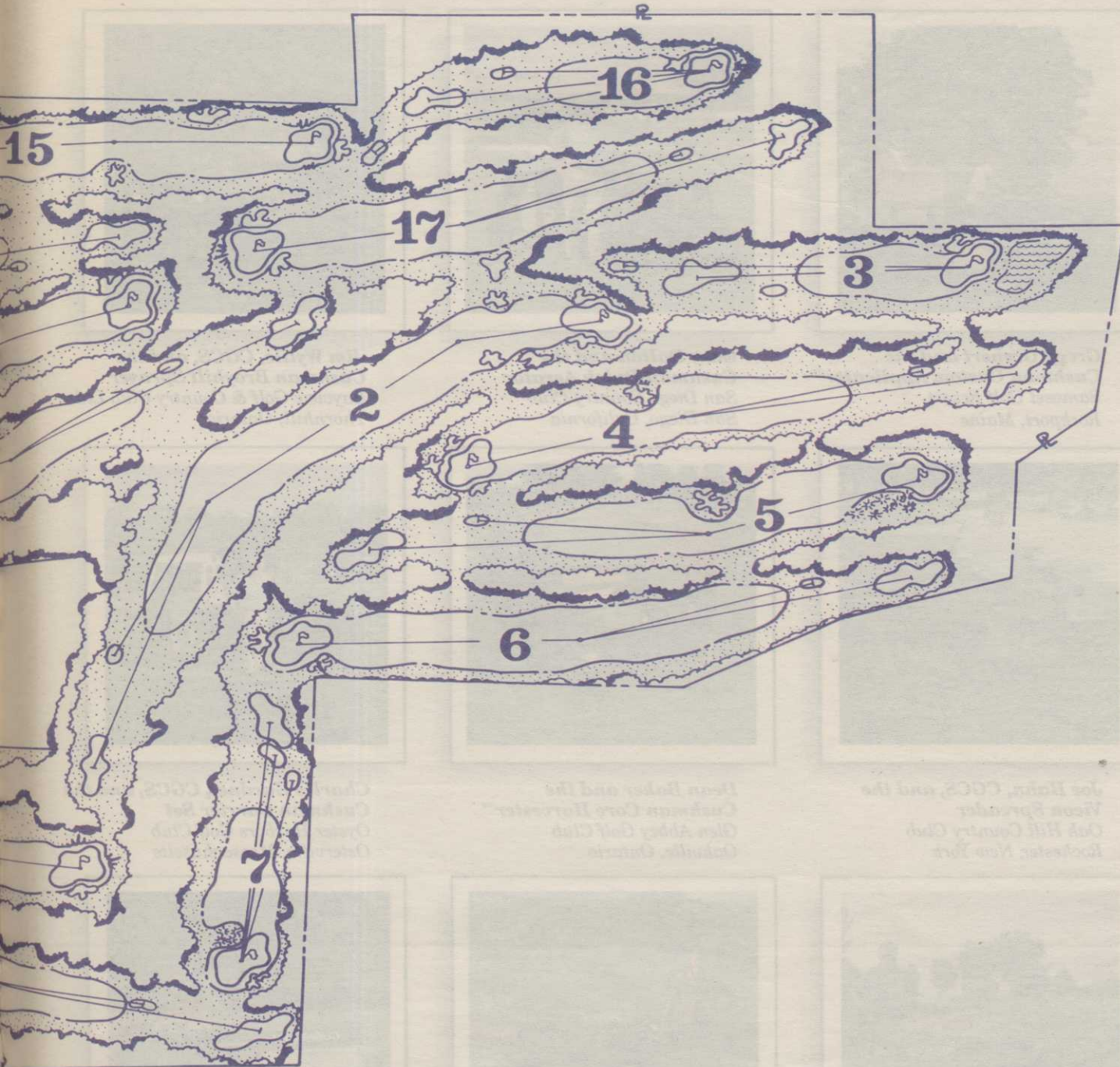
Registrants were able to earn Pesticide Recertification Credits when they attended Lofts Seed Inc.'s 14th annual field day at the company's farm at Martinsville, N.J. Visitors were greeted by Lofts' Chairman and President Jon Loft and Director of Research Dr. Richard Hurley, after which several turf specialists discussed current topics. Dr. Virginia Lehman, director of Lofts' new West Coast Research Center in Oregon, spoke on bentgrass breeding and its adaptability to Southern areas. Karen Plumley of Rutgers University dis-

cussed summer patch research. Cornell University's Dr. Norman Hummel reviewed new advances planned for pest management. Carmine Valente, of the New Jersey Department of Environmental Protection, provided a regulatory update on pesticide controls. And Maria Cinque, of Cornell University's Cooperative Extension Service, presented a diagnostic review of disease problems. A tour of Lofts' turf plots revealed the current results of trials for tall fescues, fine fescues, bentgrasses, bluegrasses, wildflowers and low-



Speaking at Lofts' 14th annual field day, agronomist Marie Pompei reveals results of wildflower test plots affiliated with national trials.

maintenance grasses. Turfgrass shade performance and ornamental grasses were also observed.



Vermeer given Iowa's only 'E' Award

Vermeer Manufacturing of Pella, Iowa, has been honored by the U.S. Department of Commerce as Iowa's sole recipient of the 1990 President's "E" Award. The award recognizes companies that demonstrate excellence in export marketing. Vermeer was identified for its work in expanding into new market territories and dramatically increasing exports in spite of strong foreign competition.

As late as 1986, Vermeer's export sales accounted for less than 8 percent of the company's total sales. Increased emphasis on aggressive international marketing helped it boost this figure to nearly 13 percent. Also during that same time, overall corporate sales volume grew by more than 50 percent.

Vermeer began its international sales in the early 1970s working through an export sales company. After limited success, it opened a one-man sales office in 1972 in the Netherlands for sales throughout Europe, Africa and the Middle East. This sales office now has eight full-time employees.

Another sales office, based in Australia, was opened in the mid-1980s.

Nematode product under study

Ciba-Geigy has reached an agreement with Biosys, a Palo Alto, Calif., biological pest control company, to jointly evaluate a nematode-based product to control insects in turf and ornamental plants.

The product controls cutworms and armyworms on turf, and black vine weevils, fungus gnats and white grubs on ornamental plants.

Under terms of the agreement, Ciba-Geigy will gather field data regarding efficacy of the nematodes, test-market it in selected areas, and conduct market research with turf managers and ornamental growers.

Nematodes are microscopic invertebrates that aggressively seek out, attack and kill a broad spectrum of soil-inhabiting insect pests. The Biosys formulation can be applied with standard spray equipment, as part of growers' existing cultural practices.

The product, which features the nematode *Steinernema carpocapsae*, is exempt from Environmental Protection Agency registration requirements.

Elsewhere...

Ringer Corp.'s natural organic commercial turf and horticultural fertilizers are once again available in Canada, according to Scott Boutilier, head of the Commercial Division. Boutilier said AG-TURF Chemicals of Brampton, Ontario, will be the sole master distributor of the products throughout Canada.

The EPA has approved an expanded federal label for Ciba-Geigy's Pennant herbicide. In addition to nursery and landscape plants, the product now may be used on Southern turf species across the United States.

plan. Don't skimp on the carpeting.

But, of course, no matter what fertilizer you use, you have to start with the best seed. Penncross, Oregon Blue Tag Certified Seed, is the standard of the industry. For thirty-five years it's proven itself through heat, drought, snow and flood as the premium surface for greens, tees and fairways.

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anything else. Because the way we see it, designing a golf course and skimping on the turf is like designing a swimming pool and skimping on the water.



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ON THE MOVE

Melex meets growth with personnel changes

Because of rapid growth, Melex USA, Inc., is expanding personnel and services. Officials have Melex announced the following promotions and appointments within the golf car division in its Raleigh headquarters.

- J. Bryan Taylor has been named marketing manager and will also coordinate the customer service and technical areas.

- Martha S. Moran has been promoted to senior administrative assistant. She will continue customer service activities while assuming additional responsibilities in the advertising and promotion areas.

- Andrew J. Kielawa has been appointed technical representative for the technical services area. He will assist in product development and field service training.

- Carolyn J. Crawford has been named administrative assistant and will assume responsibilities in

Melex' new direct marketing program.

- Lisa A. Dickerson has been named administrative assistant and will assume responsibilities in the distributor sales and customer service areas.

- Patty J. Johnson has been named administrative assistant and will assume responsibilities in the technical service area.

Nicklaus Golf hires environmental expert

Dr. Lee Berndt has joined Jack Nicklaus Golf Services and Golden Bear International as director of environmental services.

Berndt holds a master's degree in turfgrass soils and a doctorate in turfgrass pathology from Michigan State University. He worked the last 16 years as a greenkeeper/assistant superintendent at several courses around the country.

A top priority for courses that Nicklaus designs is preservation and enhancement of the natural character of the land, said Mark Hesemann, general manager of Nicklaus Golf Service and vice

president of Golden Bear International.

One of Berndt's main responsibilities will be to conduct research and develop new techniques to handle environmental issues, from wetlands mitigation to nutrient leaching and storm-water runoff.

Berndt will work closely with college scientists to expand new concepts for the future.

"There is a lot of valuable research being developed on campuses around the country," Berndt said. "My goal is to integrate this research with our field experience and make it applicable to Jack's designs."

Feldman names vp-marketing

Clifford D. Feldmann has been named vice president in marketing of Feldmann Engineering & Mfg. Co., Inc., manufacturers of Feldmann fencing and shrub planting portable, powered augers from Sheboygan Falls, Wis.

The firm was founded by his parents in 1947. Feldmann holds a PhD degree in chemistry from the University of Wisconsin, Madison. He was employed with Hewlett Packard Co. at Fort Collins, Colorado from 1979 until joining the family firm last January.

Landmark promotes Brotherton

Jim Brotherton Jr., vice president of resort promotions of Landmark Land Co. of California, Inc., has been promoted to executive vice president of the Landmark Management Co., according to its president, William "Buzz" Gill.

According to Gill, Brotherton's main focus will be in working with Joe Hough, director of consulting/management services, in the promotion of the Landmark Club Management Division in an effort to achieve a prominent position in that industry.

Brotherton will continue to be a consultant to Resort Promotions and will promote that division in his travels. He will also continue his role as liaison with the PGA of America and its related activities.

Blanchard a consultant for golf clients

David A. Blanchard has been appointed director of consulting, sales, and management services for golf-oriented clients of Lambert Smith Hampton's Orlando Division.

Blanchard holds a master's degree in architecture from the University of Michigan.

"His extensive experience as a developer as well as with other national developers in the analysis, design, construction, sales, and management of golf oriented residential communities makes him ideally suited to handle this new assignment," said Trevor Hall, executive vice president.

Blanchard's experience also includes free-standing conventional golf courses, private, semi-private, and public.



Gregg Grenert and the Cushman Custom Applicator™
Samoset Golf Resort
Rockport, Maine



Gary Dalton and the Cushman Quick Aerator
San Diego Country Club
San Diego, California



Jim Wyllie, CGCS, and the Cushman Broyhill Sprayer
Bayview Golf & Country Club Ltd.
Thornhill, Ontario



Joe Hahn, CGCS, and the Viccon Spreader
Oak Hill Country Club
Rochester, New York



Dean Baker and the Cushman Core Harvester™
Glen Abbey Golf Club
Oakville, Ontario



Charles Gardner, CGCS, and the Cushman Carrier Set
Oyster Harbors Golf Club
Osterville, Massachusetts



Doug Petersan and the Cushman Dump Bed
Prairie Dunes Country Club
Hutchinson, Kansas



Prentis Knotts and the Cushman Top Dresser
Red Mountain Ranch Country Club
Mesa, Arizona



Coming Soon. Cushman GA60 Large Area Aerator
The first in a new generation of 5th wheel accessories.

Anderson leaves Espey, Huston for vp post at Daft-McCune-Walker

Gary L. Anderson has been named a vice president of Daft-McCune-Walker, a land-planning and development consulting firm, according to Robert C. Galvin, president.

Anderson, a registered professional geologist, specializes in environmental land use and coastal issues. Prior to coming to DMW, Anderson was Director of Coastal Programs with Espey, Huston & Associates of Williamsburg, Va., and from 1980-85 was director, Commission on the Conservation and Development of Public

Beaches, Commonwealth of Virginia.

He has been a technical advisor to the Chesapeake Bay Commission's Land Use and Resource Trends Committee and to Virginia's Chesapeake Bay Local Assistance Department.

Anderson is extensively published, including recently co-authoring "Living with Chesapeake Bay and Virginia's Ocean Shores."

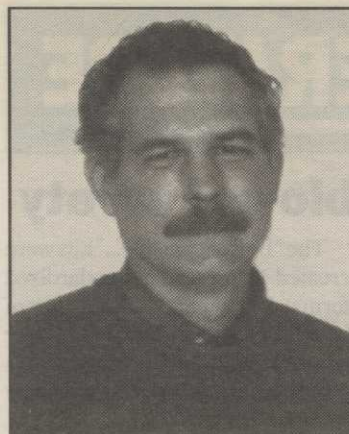
Anderson has managed and participated in comprehensive environmental assessments and

projects in the Mid-Atlantic region, the Caribbean and in Central America.

He designed the Jefferson Patterson Park and Museum Demonstration Shore Erosion Control Project in Calvert County, Md., a project funded jointly by the Maryland Department of Natural Resources and the Maryland Historical Trust.

He has assessed and managed golf course environmental studies requiring environmental mitigation.

At Daft-McCune-Walker,



Gary L. Anderson

Anderson will continue his work both in Virginia and Maryland with land-use issues and help develop new business in the Mid-Atlantic region.

Nedro moves to W. Houston for Dallas firm

Golf Resources, Inc. of Dallas, Texas, has placed PGA Class A member Mike Nedro in West Houston, Texas.

GRI, with its president, PGA Tour player D.A. Weibring, took over management of The Club in May.

Nedro, most recently, was the head assistant golf professional at Royal Oaks Country Club in Dallas. Before that, he was the head professional at Oakridge Country Club in Dallas.

Northrup King names Bosch turf specialist

Northrup King has appointed Fred Bosch turf specialist in its Medalist Turf Division. Bosch will be responsible for sales of the company's Medalist Professional Turf Products in Michigan, Ohio, western New York and western Pennsylvania.

Bosch is a graduate of Ohio State University, earning a bachelor of science degree in agriculture, majoring in agronomy while specializing in turf management. Most recently, Bosch was a technical sales representative for W. A. Cleary Chemical Corp.

Emerald Dunes appoints new club manager

Paul C. Makris has been appointed club manager and Kim Throckmorton as marketing director for Emerald Dunes in West Palm Beach, Fla.

The daily fee Emerald Dunes course, designed by Tom Fazio, opened for play in January, while the clubhouse will open in October.

Most recently, Makris was affiliated with Flame Restaurants, a nationwide chain. He has more than 20 years of experience in the food and beverage industry.

Throckmorton has been sales manager at The Colonnade Hotel in Coral Gables.

Hydro-Product adds Majia to sales staff

Tony Majia has been added to the field sales staff of Hydro-Products Inc., according to Larry Hood, sales manager, northern region for the El Toro, Calif., company.

Majia will cover the northern Inland Empire from San Bernardino to Pasadena, said Hood. Majia is a former commercial maintenance contractor with extensive experience in field troubleshooting and repair.

Hydro-Products Inc. is a single-source distributor for all major brands of irrigation and landscape supplies. It has 12 branches located throughout Southern California.

We've developed some strong attachments for the Cushman® Turf-Truckster.™ And so will you.

No wonder golf course superintendents have grown attached to their Cushman Turf-Trucksters. Nothing even comes close to fulfilling as many functions with such beautiful results. It's state-of-the-art turf maintenance machinery in a class by itself.

A superior system.

More than a dozen attachments and implements can be interchanged with a minimum amount of sweat, turning a Turf-Truckster into an entire fleet of turf maintenance vehicles. You can spray, aerate fence-to-fence, pick up cores, haul, dump, fertilize, spread, seed and top dress. And you can do them all with greater precision because of our unique ground speed governor control.

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rotary cutter, flail cutter, shredder, grinder, sweeper/collector, roller, or fine-cut reel mower. Dollar for dollar, function for function, nothing is as versatile or economical over more years of heavy use.

Now with 3 engine options.

In addition to the time-tested Cushman 222 air-cooled engine, the Turf-Truckster is also

available in liquid-cooled gas and diesel engines. The Cushman 327 gas and Kubota 950 diesel models now provide a range of options to fill all of your specific needs.

The Cushman Turf-Truckster is simply your best turf maintenance vehicle investment. Ask a superintendent who owns one. Better yet, call the Cushman dealer nearest you for a free demonstration, or call toll free 1-800-228-4444 for more information today.

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For free information circle #133

NEW LITERATURE

RedMax backs blower safety

An informational kit including 50 brochures, 10 posters and a VHS video outlining the most effective and courteous techniques for power blower usage is now available from RedMax, a division of Komatsu Zenoah America, Inc.

The posters and brochures present this information in five languages: Korean, Vietnamese, Japanese, Spanish and English. The video is available in Spanish or English.

The "Be Responsible..." kits were created to present a standardized format for safe and efficient use of both backpack and hand-held power blowers. Additional quantities of the posters and brochures are available from RedMax.

The kit is available for \$39.95 plus \$4 for shipping and handling from RedMax, c/o International Marketing Exchange, Inc., Department 6249, 540 Frontage Rd. #362, Northfield, Ill. 60093.

GCSAA releases course marketing research

The Center for Golf Course Management (CGCM), a subsidiary of the Golf Course Superintendents Association of America, has introduced the first edition of its marketing research report, "Buying Habits of Golf Course Superintendents."

The primary purpose of Buying Habits is to assist golf course/turfgrass manufacturers establish their marketing strategies. The report, which will be published each August, includes information on course demographics, purchasing behaviors, equipment inventories, expenditures, customer satisfaction, planned course improvements and more.

The report was compiled from surveys of more than 11,000 golf course superintendents. Analyses and cross-tabulations were conducted by CGCM's marketing research division.

The Buying Habits report is available through CGCM for \$945. With each report purchased by Oct. 1, a second marketing research tool, the "Maintenance Trends Report," will be provided free.

The "Maintenance Trends Report" studies current and emerging golf course maintenance practices based on a survey of 1,200 certified golf course superintendents. This year's report features deep-tine aerification, Poa annua control,

lightweight fairway mowing, 72-inch rotary mowers for maintaining roughs, and computers in golf course management.

For more information call 800-472-7878 or 913-841-2240.

Aeration and overseeding book updated

Cushman has revised and updated its 24-page manual on aeration and overseeding for lawn care professionals.

"The Dawn of a New Age in Lawn Care" provides reference information for lawn care firms that include aeration and renovation in their customer services.

The new, revised edition includes new university research concerning the benefits of aeration and why core aeration can be done after pre-emerge application without inhibiting pre-emerge effects.

Other topics include grass selection and overseeding techniques and equipment, the benefits of core aeration and new Ryan equipment designed for precision core aeration.

For a free sample of "The Dawn of a New Age in Lawn Care," contact Cushman, P.O. Box 82409, Lincoln, Neb. 68501 or call 800-228-4444.

Fore-Pare makes catalog easier to use

Organized to make the job of finding what you need quick and easy, the 1990 Fore-Par Buyers Guide and Price List is an addition to its catalog.

For more than 25 years Fore-Par has marketed golf course accessories.

The tubular Swivel flag, personalized tee markers and practice green markers, Elasto-Signs, anti-rebound markers and multi-colored paint-free poles are a few "firsts" Fore-Par has sold.

For a free copy, contact Fore-Par, Inc., 16761 Burke Lane, Huntington Beach, Calif. 92647; 800-843-0809. Circle No 256

ASGCA details golf course development

"Master Planning: The Vital First Steps in Golf Course Construction," a 12-page pamphlet that details all the steps involved in developing a golf facility, is available from the American Society of Golf Course Architects.

The brochure covers topics such as building a golf course from scratch, remodeling a course and developing a construction schedule.

It provides information on evaluating a golf course, locating a qualified architect and establishing a budget.

To receive a free copy, send a stamped self-addressed envelope to: The American Society of Golf Course Architects, 221 N. LaSalle St., Chicago, Ill. 60601.

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TRY Putter®

Creeping bentgrass

With its superior true-line putting surface and dark bluish-green color, Putter creeping bentgrass is fast becoming the choice of some of the finest courses around.

Tested side by side with the best-known bentgrasses, Putter exhibited superior color and excellent growth habit. With outstanding turf vigor, fine-leaf texture and improved resistance to take-all patch and other diseases. Add Putter's dwarf growth habit, high-shoot density and aggressiveness against Poa annua, and you have a green that's as tough as it is beautiful.

Not to mention one that satisfies your straightest shooters.

Put Putter up against the old favorites and compare. Putter quality #1. Putter density #1. Putter color #1. Putter disease resistance #1. Now, order Putter for the new world-class greens.

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Putter creeping bentgrass featured at MeadowWood Golf Course.

For free information circle #130

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Buy any amount of Apron[®]-treated seed and as little as 12 gallons of any combination of Subdue[®], Triumph[®], Banner[®], or Pace[®], and you qualify for one of three free diagnostic tools. For more information about qualifying, or about the Overseed program, simply fill out and mail in this reply card.

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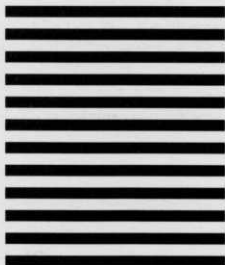
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Parker Sweeper's sulky makes chore both easier and quicker

The Parker Sweeper Co. recently introduced a Sulky Attachment to accompany the VAC 35 Self Propelled vacuum model.

The attachment allows the operator to ride instead of walk behind the VAC 35-SP. This permits the vacuum to cover twice the area in the same amount of time with considerably less effort for the operator.

The VAC 35 with sulky attachment can be used in many places where larger machines are not practical such as walkways, warehousing operations and parking lots.

The sulky features tubular steel construction, custom foot rests and padded seat.

Parker makes a complete line of turf and industrial vacuums, blowers and truck loaders.

Recently introduced on the market is the Power Sweep, a self-propelled, high-quality lawn sweeper for the removing of



Parker sulky attachment

clippings, leaves and other debris. Its 6.5-cubic-foot reinforced vinyl basket provides longer use between dumpings.

For more information contact Parker Sweeper Co., P.O. Box 1728, Springfield, Ohio 45501. Phone 513-323-4901. **Circle No. 301**

Productivity keys Dol Bros. overseeder

The DB-OV 200 Commercial Overseeder is now available from Dol Brothers.

Designed for high productivity, the OV 200 will overseed up to 20 acres per day. By incorporating a double row of staggered seeding discs, seed row spacing of 1-1/2 inches is possible.

Each of the 43 seed planters is individually sprung so that the seeding depth remains constant regardless of ground contours. The double disc seed placement system ensures precise seed placement for

maximum germination.

The OV 200 will cut through thatch or compacted soil without requiring a vertical mower to precede it, leaving the surface virtually undisturbed and ready for immediate use.

It is easily calibrated for all types of seeds and may be used for subsoil placement of granular materials such as insecticides.

For more information call 705-458-4353. **Circle No. 305**

Ransomes introduces Verti-groom unit

Ransomes, Inc. has introduced its new Verti-groom unit for the Greens 3000. The Verti-groom unit conditions and improves the green surface by cutting lateral growth and controlling thatch. The result is a more consistent finish to each green and a smoother putting surface.

The Verti-groom unit is mounted in front of the grooved roller to shorten the distance between the rollers, reducing the incidence of scalping. The unit consists of 34 steel blades, each with five cutting teeth. The blades rotate at high speed and are spaced for optimum performance and minimum

damage from obstructions.

The attachment floats with the undulations in the turf to prevent damage to greens.

It can also be easily raised to provide a half-inch ground clearance for normal greens mowing.

The Verti-groom is driven by a toothed belt and utilizes a simple hand-operated clutch to disengage the drive for normal greens mowing.

For more information contact a local turf maintenance equipment distributor. **Circle No. 310**

Proseed releases mulch and blankets

Proseed USA has introduced three new product lines, the PS200 Seeded Mulch Blanket, PS15-W Mulch Square and PS50 and PS50-W Mulch Blankets.

The PS200 Seeded Mulch Blanket is the biodegradable PS100 Mulch Blanket seeded with grass and/or wildflower seeds. Each blanket comes as lightweight, easily installed rolls, 58 inches-by-93 feet and covering 450 square feet. It can be custom seeded by request.

The PS15-W is a moisture retentive/weed prevention mulch square. It is a 29-by-24-inch, non-netted square treated with a pre-

emergent herbicide for weed prevention around seedling trees. It will prevent weed growth for eight to 12 months while allowing seedlings to get established.

The PS50 Mulch Blanket is a 29-inch-by-100-foot, non-netted mulch blanket for use along highway shoulders to prevent erosion. The PS50-W, which has the same properties as the PS50, is treated with a pre-emergent herbicide for weed prevention lasting the growing season.

For more information, contact Proseed USA, Inc., P.O. Box 1250, San Marcos, Texas 78667, or call 800-243-0105. **Circle No. 309**

Sweepers

Continued from page 20
the occasional storm."

Welch has worked in other parts of the country, primarily Florida, where debris management equipment is used year round. But whether it's South, North, East or West, "the capability of the machine is the most important consideration," when making a purchase, he said.

Today's debris management equipment can handle everything from leaves, branches and clippings to pine needles, snow and trash.

Blowers have wind blasts up to 16,000 cubic feet per minute. Other important con-

siderations are the power source and the ability to direct air in different directions, according to Pat Lewis, head superintendent at Portland (Maine) Country Club.

Sweepers can clean a path as wide as 12 feet. Pick-up models have hoppers as large as eight cubic feet. Those with high-dump capacity can lift debris up to nine feet to deposit in another vehicle. The power source, pick-up system and whether the unit has manual or mechanical dumping capability are also important, said Lewis.

"And price is always a factor," the Portland CC superintendent added.

NEW PRODUCTS

Grace-Sierra markets new fungicides

Grace-Sierra Horticultural Products Company has introduced VORLAN and FUNGO systematic turf fungicides in a safe, convenient liquid form.

The new products, which enhance rather than replace existing products, control ornamental and turf diseases while eliminating the risk of dust inhalation associated with traditional powder pesticides.

"The introduction of VORLAN FLO and FUNGO FLO represents Grace Sierra's commitment to providing professionals with the highest quality, safest and most convenient products on the market," said marketing manager Mark E. Braxton.

VORLAN FLO is safe on all turfgrasses. It controls Dollar Spot, Leaf Spots, Red Thread and Pink Snow Mold up to 28 days. It is available 4 x 1-gallon jugs per case.

FUNGO FLO protects against most major turf diseases, including Brown Patch and Fusarium Blight (Summer Patch and Necrotic Ring Spot).

Systemic action provides effective disease control for up to 14 days.

It is available in 2 x 2-1/2-gallon and 4 x 1-gallon jugs per case.

For more information, turf specialists can contact their local turf distributor or call Grace-Sierra at 800-492-8255. **Circle No. 302**

New Ryan aerator covers more area

The new Ryan Lawnaire V Aerator's 26.5-inch aerating swath covers up to 29,000 square feet per hour, 38 percent more than the Lawnaire IV.

Powered by a 4-cycle, 3.5-horsepower Honda engine, the Lawnaire V is equipped with 3/4-inch, open-sided coring tines that can penetrate up to 2-3/4 inches deep.

It comes with a 38-pound, removable weight bar and a polyethylene water drum that holds up to 10.2 gallons (77 pounds) of water for extra penetrating pressure.

The Lawnaire V features 5/8-inch axles with needle bearings, thrust washers and V-ring seals at both ends.

Pneumatic four-ply tires minimize chances the aerator will scuff turf making turns.

With its 42 tines, the Lawnaire V produces an aerating pattern of 3-3/4 inches by 7 inches from core to core.

For more information write Cushman Inc., P.O. Box 82409, Lincoln, Neb. 68501 or call 800-228-4444. **Circle No. 301**

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CAN CREATE THE
PERFECT GROWING
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Pythium blight can strike almost as fast as lightning. To protect your overseed investment from an attack, nothing works better than a preventive program of Apron®-treated seed and Subdue® fungicide.

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Always read and follow label directions.



For free information circle #131

Hyundai. Driven to perfection.

Let's face it, most golf cars look the same. At Hyundai, we focused our resources and research on high performance, low maintenance and longer life. Hyundai Golf Cars were not created in a vacuum, but rather from lessons learned on the golf course. Round after round after round, Hyundais were driven to perfection.

That's why we're proud to introduce the most innovative golf cars on the market

today. Our efficient, powerful electric and gas golf cars ensure continuous, trouble-free operation.

A unique suspension system and a wider wheel base smooth out any terrain and offer a much safer, more comfortable ride.

A body constructed of lightweight impact resistant polypropylene and a frame made with high tensile tubular

steel and electrostatically applied paint keep maintenance to a minimum.

More leg room, thickly padded seats, newly designed drink cup holders and spacious storage compartments take care of all the creature comforts.

And yes, Hyundai Golf Cars look great too, especially on the bottom line. A lasting investment that will make a lasting impression on your profit picture. Now that's perfection.



HYUNDAI

Golf Course Marketplace

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EMPLOYMENT

GOLF COURSE DESIGN ASSOCIATE

Young aggressive design firm is seeking a Design Associate to assist in cont'd growth. L.A. degree & 3-5 yrs. G.C. design exper. req'd. Construction exper. preferred. Primary responsibilities: Production of routing plans, working drawings and all related documentation. Some travel req'd. Compensation based on exper. & ability. Resumes will be kept confidential.

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(214) 620-3402

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POSITIONS AVAILABLE

Experienced golf course construction supervisors & shapers needed for overseas work. Send references & resume to "Overseas Golf", 14651 Big Basin Way, Saratoga, CA, 95070 or Fax to 408-867-9680.

POSITION WANTED — GOLF COURSE EXECUTIVE

Ex-golf course owner/operator seeks responsible position in golf course industry. Will travel. (517) 362-7386.

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18-hole championship golf course. 25,000 sq. ft. clubhouse, 1000 seat convention center, 71 unit inn. 500 acres w/2500 lake frontage. Owner retiring. Price \$6 million. **M. Baganis, PO Box 641, Novi, MI 48376**

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15 GOLF COURSES ALL OVER TEXAS

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GOLF COURSE DEVELOPMENT

REQUEST FOR PROPOSAL

The City of Dothan, Alabama has available a Request for Proposal (RFP) for the Design, Development, & Operation of an 18-hole Regulation Golf Course & Related Amenities. A pre-submittal conference will be held on September 24, 1990 in the City Commission Chamber of the Dothan Civic Center, 126 N. St. Andrews Street at 10:00 a.m., CST. Deadline for submitting proposals is December 21, 1990 at 2:00 p.m. CST. Interested parties may acquire a copy of the proposal packet by contacting:

The City of Dothan
Department of Leisure Services
P.O. Box 2128 • Dothan, AL 36302
(205) 793-0191

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FOR SALE

475-A Vermeer trencher with backhoe. 350 hours; 1988. Asking \$30,000.

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Putting green quality, grown on a fumigated sand base. Putting green sod @ 1/8" height of cut; tee sod @ 5/16" height of cut; fairway blend @ 7/16" height of cut. Guar. weed disease & poa annua free. Now taking orders for late summer & fall renovations. **STORMY ACRES, West Haven, VT. (802) 265-3046.**

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Buy direct from fabricator 20 & 30 mil. P.V.C. Made to order. Under 20 cents per sq. ft. Installation or supervision available. Call...

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- **"LEVEL-EEZ"**: A unique kit that allows you to raise Toro & Rain Bird sprinkler heads in minutes with **No Digging Required**. Tested in all soils.
- **"DonuT Trimmer Edging Blades"**: Allows you to edge bunkers, sprinkler heads, yardage markers & cart paths in minutes.
- **"Aqua-Quick"**: Turns Toro & Rain Bird valve-in-head sprinklers into 1" water source instantly. To order, call:

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Andy Masciarella, Distributor
1-800-345-1960
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EQUIPMENT FOR SALE

FH-15 Fairway Mower. Hydraulic-driven reels, 11-bladed. All units & reels 100% rebuilt & ground. Tractor has brand new engine. Mower doesn't suit our needs. Asking \$12,000. **MUST SELL!**

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Buy factory direct & save 40% or more on personalized flags. Flagpoles, tee markers, etc. also available. Fast personalized service guaranteed. Call toll free.

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Four Seasons Golf Co.
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Greensboro, NC 27427

ATTENTION ADVERTISERS!!

The October issue of Golf Course News will feature an Equipment Update on: **Irrigation and Pumping Stations**
Advertising Deadline for the October issue is: Friday, Sept. 14th.

EDUCATIONAL OPPORTUNITIES

MOVE UP IN THE GREEN INDUSTRY

2 year AAS degree program in Golf Course Superintending, Irrigation Management, Landscape Contracting & Park Supervision. Fully accredited, VA approved, expanded learning facilities, new equipment. Graduate job placement assistance available. For more information contact: **Golf Course Operations/Landscape Technology Dept., Western Texas College, Snyder, TX 79549.**

NEW — Golf Course & Landscape Equipment Mechanic Training Program

One year Certificate includes training in Irrigation Repair, Maintenance & Trouble Shooting; Engine & Hydraulic Systems repair, Maintenance & Trouble Shooting; Reel Grinding, Mower Service & Repair. For info. contact: **Mr. Mace McDaniel, Golf Course Operations/Landscape Technology Dept., Western Texas College, Snyder, TX 79549.**

BUSINESS OPPORTUNITIES

Need to Advertise Your... EMPLOYMENT OPPORTUNITY, BUSINESS OPPORTUNITY, PRODUCTS & SERVICES?

GOLF COURSE NEWS, the newspaper of the golf course industry, offers you a very affordable advertising option... Classified Line Ads in the Marketplace section. At \$35 or less per column inch, these line ads are the least expensive way to reach 20,000 of your top prospects in the golf course business. Categories are not limited to those you see here... we'll start a new category to suit your needs.

A classified ad in GOLF COURSE NEWS ensures that your advertising dollars are being spent wisely. Call Simone Lewis TODAY to place your ad.

(813) 576-7077

CALENDAR

September

4-6 — The Institute of Groundsmanship's Sports & Leisure World Trade Exhibition at the East of England Showground in Peterborough, Cambridgeshire, United Kingdom. For more information contact Milton Keynes at The Institute of Groundsmanship, 19-23 Church St., The Agora, Wolverton, Buckinghamshire MK12 5LG; telephone 0908-312511.

9-11 — National Club Association's first annual Club Director Conference at Pinehurst (N.C.) Hotel and Country Club. It is designed for incoming officers. Contact the NCA, Washington Harbour, 3050 K St. NW, Suite 330, Washington, D.C. 20007; 202-625-2080.

10-11 — Golf Course Development and Investment Seminar at Oak Brook Hills Hotel and Resort in Oak Brook, Ill. Call 212-826-1260.

12-13 — Golf Development Conference, sponsored by Crittenden News Service, Inc., at the Peabody Orlando in Orlando, Fla. Contact Crittenden News Service, 250-G Bel Marin Keys Blvd., Novato, Calif. 94949.

14-17 — Florida Recreation and Park Association State Conference in Sarasota, Fla.

18 — Professional Turfgrass Field Day, sponsored by the Metropolitan Golf Course Superintendents Association, at Westchester Country Club in Rye, N.Y. Rain date is Sept. 19. Contact Bob Lippman at 914-248-7476 or Byron Johnson at 201-473-3393.

18-19 — Virginia Tech Turfgrass Research Field Days at the Virginia Tech Turfgrass Research Center in Blacksburg, Va. Contact John R. Hall III, professor and Extension agronomist, at Department of Crop and Soil Environmental Sciences, 424 Smyth Hall, Blacksburg, Va. 24061-0403; 703-231-9736.

20-21 — GCSAA seminar in Sacramento, Calif., on Environmental Considerations in Golf Course Management.*

23-25 — Eastern Golf Merchandise Show at the Baltimore (Md.) Convention Center. Call 407-624-3393.

24 — GCSAA seminar in Banner Elk, N.C., on Maximizing Job Satisfaction.*

25-26 — GCSAA seminar in Caledon, Ontario, Canada, on Golf Course Construction Techniques and Management.*

27-29 — Golf Collectors Society's 20th annual meeting, including a private auction and two-day public trade show, in Birmingham, Ala. Highlights include a members-only reception at the Alabama Sports Hall of Fame and the Hickory Hackers 18-hole tournament, with players using only wood-shafted clubs and wearing 1900s-style attire. Contact Bob Tidwell at 205-328-3885.

30-Oct. 3 — Florida Turfgrass Association Annual Conference and Show — "the largest warm season turfgrass trade show in the Southeast" — at the Orange County Convention Center in Orlando. Workshops and seminars will cover environmental regulations, enforcement policies, biological control programs and advanced turf management practices; and the IFAS Research Update program of the University of Florida will present current facts for the turfgrass industry from the last year of research. Call 407-898-6721 for more information.

30-Oct. 4 — Professional Plant Growers Association annual conference at the Marriott City Center Hotel in Denver, Colo. Contact the Professional Plant Growers Association at 517-694-7700.

October

3-4 — The 30th Annual Southern California Turfgrass Council Expo at the Orange County Fairgrounds in Costa Mesa, Calif. Contact Chuck Wilson, CGCS, chairman of the SCTC Expo Committee, at 26442 Vera Cruz, Mission Viejo, Calif. 92691; 714-951-8547.

4-5 — GCSAA seminar in Melville, N.Y., on Golf Course Design Principles.*

5-7 — First Joe Lee Challenge Matches, pitting teams of five golfers playing at Wynlakes Golf and Country Club in Montgomery, Ala. Contact Michael Reilly at Wynlakes.

11-12 — GCSAA seminar in Somerset, Pa., on Plant Nutrition and Fertilizers.*

11-13 — National Sporting Goods Association Fall Market at the Anaheim (Calif.) Convention Center. Call 708-439-4000.

22-23 — GCSAA seminar in Little Rock, Ark.,

Continued to page 37

Golf Course Marketplace

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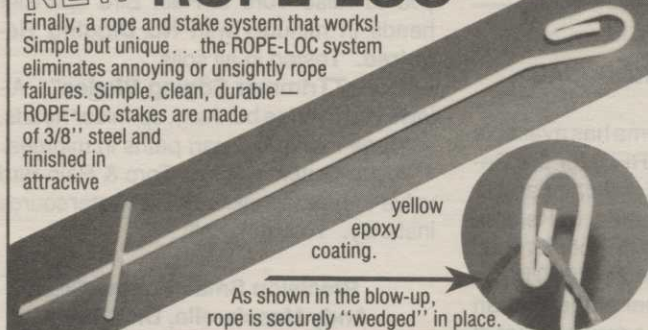
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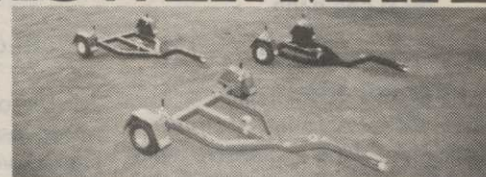
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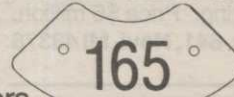
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Continued from page 36

on Golf Course Design Principles.*

23-26 — BGIA golf trade exhibition in Birmingham, England. For more information call 0903-883381.

24 — Safety and Preventative Maintenance Seminar, sponsored by the New York State Turfgrass Association, at Oyster Bay, N.Y. Contact NYSTA at 800-873-TURF or 518-783-1229.

28-Nov. 1 — The 11th Annual International Irrigation Exposition and 3rd National Irrigation Symposium, presented jointly by The Irrigation Association and the American Society of Agricultural Engineers, at Phoenix, Ariz. Contact Lisa Brownell-Pierce at The Irrigation Association, 1911 North Fort Myer Drive, Suite 1009, Arlington, Va. 22209-1630; 703-524-1200.

29-31 — West Virginia Golf Course Superintendents' Association's first annual turf conference at Cedar Lakes Conference Center near Ripley, W.Va. The conference will include equipment and product demonstrations and educational programs. Contact John C. Cummings at Berry Hills Country Club in Charleston, W.Va.

29-30 — GCSAA seminar in Manchester, N.H., on Golf Course Construction Techniques and Management.*

31-Nov.1 — GCSAA seminar in St. Louis, Mo., on Landscape Design and Materials.*

November

1-2 — GCSAA seminar in Bolton, Mass., on Integrated Pest Management.*

3 — American Seed Trade Association Lawn Seed Conference at Crown Center in Kansas City, Mo. Contact the ASTA at Suite 964, Executive Building, 1030 15th St., N.W., Washington, D.C. 20005; 202-223-4080.

3-6 — Western Seedsmen's Association convention at Crown Center in Kansas City, Mo.

6-7 — GCSAA seminar in Kansas City, Mo., on Public Relations and Public Speaking.*

8-9 — GCSAA seminar in East Lansing, Mich., on Managerial Productivity.*

12-13 — GCSAA seminar in Painesville, Ohio, on environmental management.*

12-14 — Golf Summit 90, the third in a series of industry strategic planning meetings, at Marriott's Desert Springs Resort and Spa in Palm Springs, Calif. Coordinated by the National Golf Foundation, the summit will focus on the progress made in the programs of the Strategic Plan for the Growth of Golf, first introduced by the NGF in 1988. Contact the NGF, 1150 South U.S. Highway One, Jupiter, Fla. 33477; 407-744-6006.

13-16 — New York State Turfgrass Association Turf and Grounds Exposition at the Rochester (N.Y.) Riverside Convention Center. Contact NYSTA at 800-873-TURF or 518-783-1229.

14 — GCSAA seminar in Palm Beach Gardens, Fla., on Budgeting and Forecasting.*

14 — Scotsturf 1990 in Inghliston, Edinburgh, Scotland. Contact Anne Swan at 0908-311856.

15-16 — GCSAA seminar in Louisville, Ky., on Plant Nutrition and Fertilizers.*

26 — GCSAA seminar in Rapid City, S.D., on Water Quality and Irrigation Scheduling.*

27 — GCSAA seminar in Albuquerque, N.M., on Developing Your Hazard Communication Program.*

28 — GCSAA seminar in Albuquerque, N.M., on Safe Pesticide Management.*

28-30 — Second Golf Course Europe, an international exhibition and conference on the design, construction and maintenance of golf courses and golf club management, at Le Parc des Expositions in du Bourget, Paris, France. Contact Ellen MacGillavry at Expoconsult, Industrieweg 54, P.O. Box 200, 3600 AE Maarssen, Holland; 03465-73777.

29-30 — GCSAA seminar in Pleasanton, Calif., on Golf Course Restoration, Renovation and Construction Projects.*

December

2-3 — GCSAA seminar in Denver, Colo., on Environmental Considerations in Golf Course Management.*

3-4 — GCSAA seminar in Cedar Rapids, Iowa, on Managerial Productivity.*

4-5 — GCSAA seminar in Rochester, N.Y., on Turfgrass Insects: Basic and Advanced Principles.*

* — For more information or to register, contact Betsy Evans, education coordinator, Golf Course Superintendents Association of America, at 800-472-7878 or 913-841-2240. The seminars are dependent upon the availability of the instructors, and are therefore subject to change. One-day seminars cost \$100 for GCSAA members and \$120 for non-members; two-day seminars cost \$180 for members and \$210 for non-members.



Erosion like that above can happen without their new flags, say Pat McMillan, below left, and Gary Darling, below right.



McMillan, Darling put heads together and, voilà, Heads Up

BY MARK LESLIE

Golf course irrigation contractors, builders and superintendents can sleep soundly during construction projects — now that a new flag assembly is on the market.

The continual problem of destroyed sprinkler heads on a project is "a nightmare to the irrigation contractor and superintendent," said Pat McMillan of Chandler, N.C., an on-site supervisor and finish shaper with Robert Trent Jones Sr. After struggling with this nightmare for years, McMillan and Gary Darling of Sapulpa, Okla., a Jones architect's representative, decided to do something about it.

The result: Heads Up Flagging, a simple 5-by 8-inch orange plastic flag on a 36-inch metal pole that sticks into a rubber mount. Using a powerful new tape from 3M Company, the mount is stuck on the top of the head, so that the flag is not touched by water from the sprinkler.

Tested in intense heat, extreme cold and high winds, the flag assembly has proven it will save money and major headaches on golf courses, parks and athletic fields.

"For years we have griped and moaned about people putting wooden stakes beside the sprinklers," said Dave Davis of Golf Course Irrigation and Design Consultants in California. "The sprinkler would rotate past the stake and it would block out an area of irrigation as well as erode around the stake. But nobody ever thought about putting a sticker on the head and a flag on top of that."

Referring to the standard procedure, McMillan said, "If you stick a 24-inch flag in the ground six inches you have only 18 inches showing. When you're sitting up on a big bulldozer coming over a knoll or bunker, visibility is very poor and you have a lot of dust in front of you, and you can easily run over a head.

"A lot of times guys don't say anything, and when you go to pressurize the system you have leaks all over the place. It's a nightmare

to the irrigation contractor and superintendent."

Darling said use of wooden sticks around sterilized greens is a major problem. "If you have a wood flag, the water hits it and washes into the green and causes contamination."

He also said that on slopes, the old wooden stakes can cause erosion.

McMillan added that on construction sites it is often one man's job every morning and night to walk the course to make sure all the stakes are up. "It's a lot of labor wasted — not to mention how many heads are being run over," he said.

The cost of broken sprinkler heads alone is estimated at several thousand dollars per course. Then there are quick couplers and valve boxes that, if unmarked, can be hard to locate. Underground pipes may also be broken.

Davis, who is testing the flags on several courses, said: "You had a good 5-percent loss on a golf course before using these flags. If you had 1,000 heads it would be easy to lose 50 heads to breakage."

That means \$5,000 to buy new heads, plus another \$5,000 in manhours for repair.

And, Darling added: "If you had a stake blow off on a green and you had to redo the surface of the green, you're talking about \$3,000, \$4,000, \$5,000 in damage."

"Per head it will cost into the hundreds, maybe into the thousands, for repairs."

An average of 2,000 flags per course are needed in the Western United States. In the East, 800 to 1,400 might suffice. At a cost of \$1.29 per flag and holder, that's a cost of \$1,000 to \$2,500.

"When you're spending \$5 million, \$6 million ... for a golf course, \$1,400 is very little for marking irrigation heads," said McMillan.

"The irrigation system — at \$500,000 to \$1 million — is the most expensive thing you're putting into a golf course. It is the life support of the whole course," said Darling. "This is (equal to a) miscellaneous cost."

McMillan added "neatness" to Heads Up flags' list of positives.

He told of a course he visited where a superintendent had stuck lengths of one-inch PVC pipe into the ground to mark heads.

When prospective homebuyers visited, "Here you had a \$10-million golf course and they looked down the fairways and saw all this white pipe sticking out of the ground... The flags can only make things better for irrigation contractors and designers," he said.

They are also more convenient for the builder. Said McMillan: "An irrigation contractor can just sit them on a seat in the truck versus the old wooden stakes where you have a whole pickup full in the back and you're constantly scrounging through them. To put one up, you have to take a roll of marking tape, wrap it around the stake, tie a couple of knots in it... It's just not convenient."

The flags are basically used during a golf course's grow-in period — usually one year.

McMillan and Darling are delighted with the response from people who are testing them.

"Four golf courses in Europe are using them and the response is incredible, especially in Ireland where they've done things the old, old way for so long," McMillan said.

Davis is so happy with the flags that his company is specifying their use on new jobs.

"I've been putting them out on several golf courses to test them in different environments," Davis said. "I've got some in the Las Vegas area and other parts of the desert ... in the hottest part of the season — 120 degrees — and we haven't had any come off."

"We're also testing for wind in the high desert," he said, adding that he has yet to lose one of the 20 flags in an area that has 15- to 20-mph prevailing winds.

Darling reported similar results at his Oklahoma home, which he calls "the windiest place in the world."

Darling and McMillan also gave the unit a "freeze test." They stuck the flag holder to the

ON THE GREEN

bottom of a coffee can filled with water and froze it. Every day for 30 days they put the can and holder under hot water, then returned them to the freezer. The rubber mount remained fixed in place.

"I put it through the heat test, too," said McMillan, who put it on the lid of his barbecue grill. "It actually adheres better with heat. It's incredible."

He said the tape attaches to wood, rubber and or any irrigation head on the market.

The question now is, can Heads Up Flagging keep up with the demand once the word gets out to the industry.

Darling said his Tulsa, Okla., manufacturer is capable of making 2,000 a day. "But we don't even have our (advertising) pamphlets done yet."

If you have had an innovative solution to a golf course problem, let us know. Call the editor at 207-846-0600.

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