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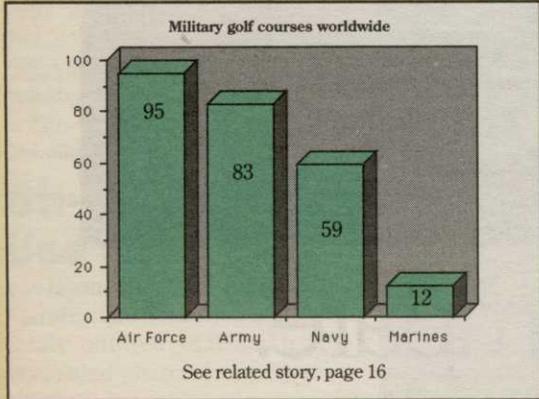
# GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

VOLUME 2 NUMBER 6  
JUNE 1990  
A United publication

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## Rains deluge courses

BY PETER BLAIS

First Hurricane Hugo in South Carolina, then the San Francisco earthquake, then record-low temperatures in December throughout much of the United States, then, most recently, spring flooding in the south central Midwest.

It's been a tough past few months for the nation's golf courses.

Record April and May rainfalls swelled rivers and left entire courses under water in Arkansas and Texas. Some weren't expected to re-open until mid-June.

In Little Rock, Ark., Rebsamen Park and Burns Park municipal golf courses were completely flooded during the first week of May, according to Arkansas State Golf Association President Charles Wade. The back nine at Maumelle Golf and Country Club was

*Continued on page 28*



A tractor bulls through flood waters at Rebsamen Park Municipal Golf Course in Little Rock, Ark. Photo by Tanga Dreher

## Jobs galore for grads

BY PETER BLAIS

At Michigan State University, Assistant Professor John "Trey" Rogers has a list of 77 assistant superintendent job openings for this year's 44 graduates of the school's two- and four-year turf management programs.

At Pennsylvania State University, 20 of this year's 36 turf management graduates had already accepted jobs as of mid-April, according to Professor Joseph Duich. Another six were nego-

tiating with employers and Duich had little doubt the rest would find employment.

At Texas A&M University, instructor Wallace Menn estimates the school has received three times as many job offers as it has graduating students (45) of the four-year agronomy with turf management option program.

At California State Polytechnic University at Pomona, Professor Kent Kurtz

*Continued on page 27*

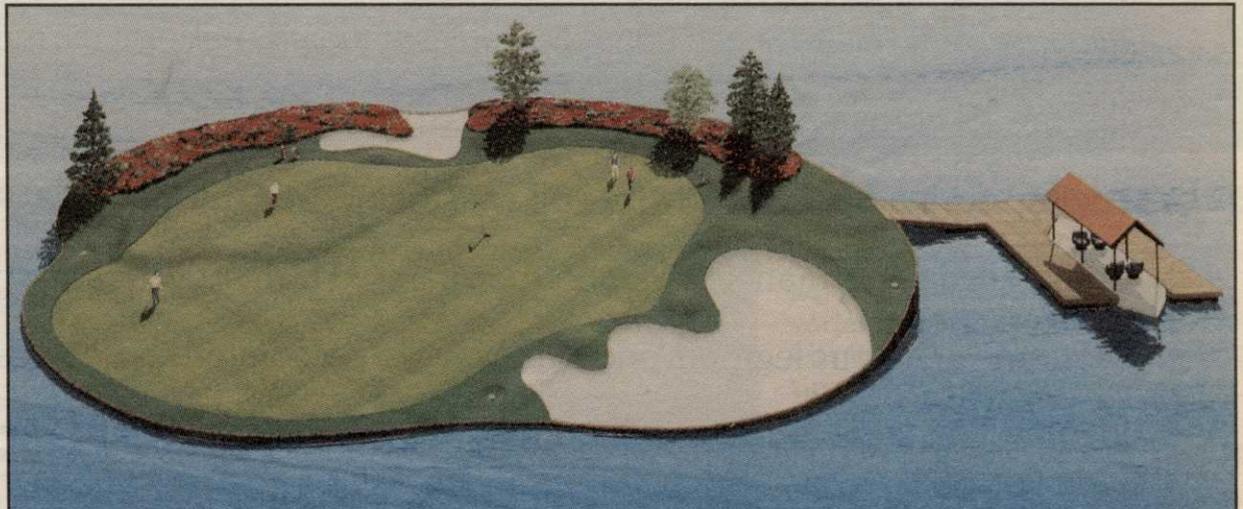
## Vegas debates effluent use

BY PETER BLAIS

The Colorado River Commission is considering stopping the use of effluent to water Southern Nevada golf courses, a move that could threaten development in one of the fastest-growing areas of the country.

The amount of drinking water southern Nevada is allocated from the Colorado River is determined, to an ex-

*Continued on page 15*



The floating 4th green at Coeur d'Alene is a monument to engineering and innovation. Courtesy of Scott Miller Design

## Miller tests waters with floating green

BY BOB SPIWAK

When the golf course opens next summer at Idaho's Coeur d'Alene resort, it's going to make a big splash. Golfers, playing the 14th hole, will make a lot of smaller splashes. The course will feature the world's first

floating island green.

Coeur d'Alene is in the panhandle of northern Idaho, tucked between Washington and Oregon. Surrounded by mountains, and on the shore of Lake Coeur d'Alene, the town was once a timber community. It has evolved into

a recreational area and when land became available at the site of an old mill, local developer Duane Hagadone saw it as an ideal place for a golf course to accompany his hotel resort on the lake. Hagadone was certain of one thing:

*Continued on page 26*

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## NEWS

## Foundation to survey Ohio turf industry

The Ohio Turfgrass Foundation has appropriated funds to sponsor a survey of Ohio's turfgrass industry.

This survey is being conducted by The Ohio State University's Department of Agricultural Economics. All of the state's turfgrass industry, including professional, private and residential sectors, are being surveyed.

The first questionnaires were sent in early April. John Fanning, foundation president, is encouraging everyone who receives a questionnaire to complete it accurately and quickly.

"Ohio's turfgrass industry has experienced tremendous growth in the past 10 years," Fanning said. "The only way to accurately assess the size of this industry is through a comprehensive survey. Collectively, these results will be used to convey to the general public, state legislators, university administrators and others the importance of the turfgrass industry in Ohio."

The survey is expected to be completed in early 1991.

## Study says: Use charcoal

A Japan Ministry of Agriculture, Forestry and Fisheries study recently showed that scattering granulated charcoal over greens greatly reduces ground water pollution by chemicals.

An experiment reported in the magazine *Ground Water Monitor* showed ordinary charcoal absorbed chemicals 1,000 times more effectively than inorganic compounds and 100 times more effectively than soil. The amount of charcoal needed varies with its acid-alkali content.

The cost is minimal since a single application is effective for years. Japanese courses use an average two metric tons of chemicals annually.

## Boyd, Kelly form company

Ronald Boyd, former staff engineer for Espey, Huston & Associates, has founded an environmental consulting company with wetlands regulation expert Michael Kelly.

Williamsburg Environmental Group, headquartered in Williamsburg, Va., will work nationwide, according to Boyd.

Boyd, a water resources expert, is president of the firm and Kelly vice president, while Lee Goodwin is the environmental planner using expertise in fertilizer-pesticide management. Kelly worked for the West Virginia Marine Resources Commission, then for four years with Espey, Huston.

Boyd said the company will work primarily on golf courses and already is consulting on several projects in the East.

## Landmark Land attempts deal

Salomon Brothers, Inc. has been retained to sell Landmark Land Co. now that the federal government has disallowed a Landmark deal to sell \$967 million in real estate to California developer Barry G. Hon.

Landmark, through its Oak Tree Savings subsidiary, owns and operates several golf resorts including PGA West, La Quinta and Mission Hills in the Palm Springs, Calif., area.

The Office of Thrift Supervision objected in early May to Landmark's plan to finance 75 percent of the proposed real estate sale to Hon. OTS said the transaction would have committed more than 20 percent of

Landmark's assets to a single borrower.

Instead, the Carmel, Calif.-based company will try to sell just one development — Oak Valley — to Hon for \$275 million while attempting to restructure or sell the company.

Oak Valley is a 6,700-acre parcel five miles east of Redlands, Calif., that has one course under construction and three others planned.

Landmark will realize a \$170 million pre-tax profit if the sale is OK'd.

"The sale of Oak Valley gives us enough time to look at our other alternatives for the rest of our property," said Doug Barton, Landmark's vice president.

The Financial Institutions Reform, Recovery and Enforcement Act of 1989 that tightened restrictions on savings and loan associations owning real estate has resulted in the possible sale of Landmark.

Salomon Bros. managing director of real estate J. Steven Manolis said Landmark's golf operations and real estate could be attractive to Japanese buyers. But the Japanese have avoided high-profile U.S. real estate deals recently, partly because of anti-Japanese sentiments.

Company Chairman Gerald G. Barton owns 28 percent and Toronto-based Olympia & York Developments Ltd. 24 percent of Landmark.

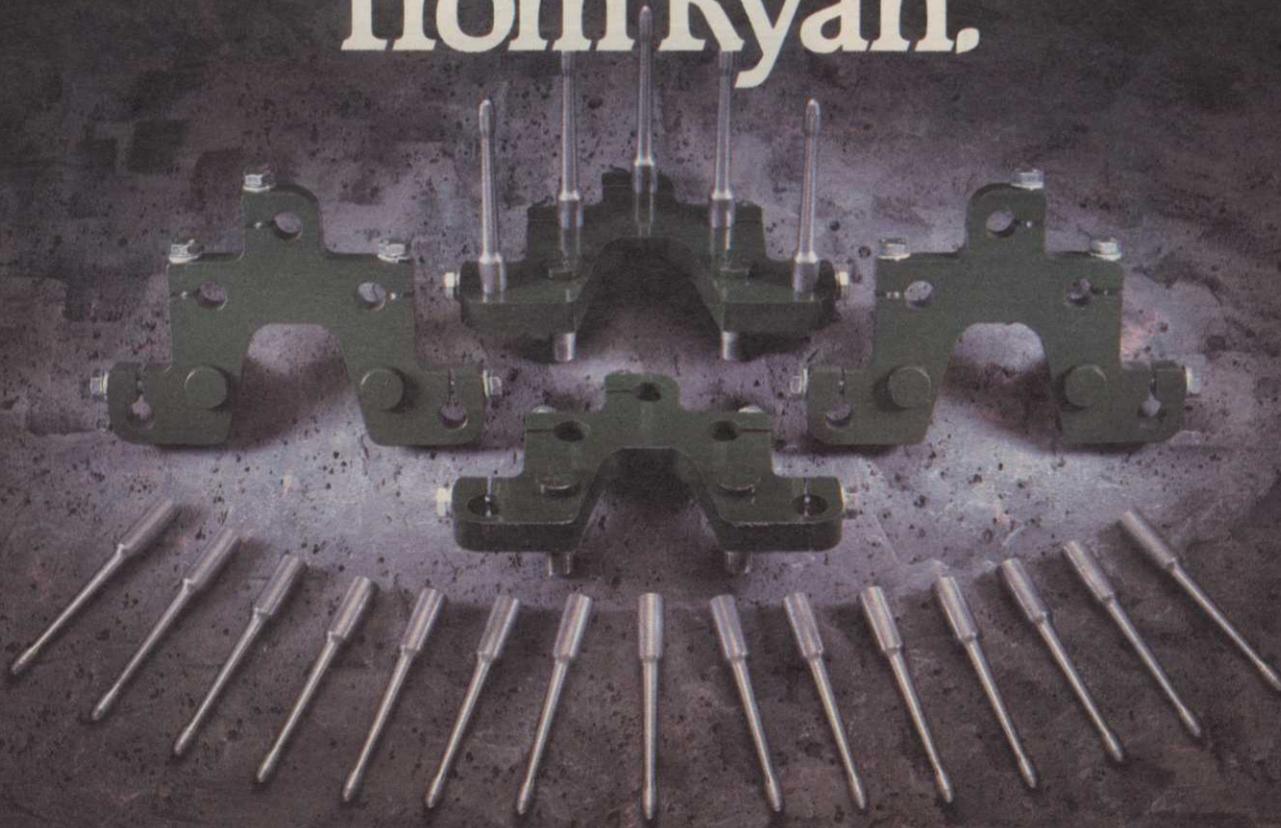
## EPA hotline opens to help with rules, technology

The Environmental Protection Agency is operating a hotline to provide golf courses and other small businesses with information on complying with government regulations and help with technical questions.

The EPA Small Business Ombudsman office will man the line from 8:30 a.m. to 4:30 p.m. (EST) Mondays through Fridays.

The telephone number is 800-368-5888 or 703-557-1938.

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## NEWS

### Jeremy Ranch project sold

Three Park City, Utah, businessmen have purchased the Jeremy Ranch development outside Salt Lake City from a group of lenders, headed by Virginia Beach Federal Savings.

Dale Eastman, Jerry Sanders and Jerry Howells bought the development that includes an Arnold Palmer/Ed Seay-designed course, site of the Aug. 13-19 The Jeremy Showdown Senior Tour event.

A clubhouse, several hundred single-family and condominium lots, commercial and institutional acreage and 7,500 acres of undeveloped land were also part of the purchase.

Virginia Beach Federal foreclosed on the property in 1988. The purchase price wasn't disclosed.

### Carbondale vote in Nov.

Carbondale, Ill., voters will decide in November whether to finance a proposed golf course by issuing general obligation bonds.

The Carbondale Park District Board decided in January to issue general obligation bonds to finance the \$2.5 million course. The board believed this financing method could save as much as \$300,000 over other alternatives, an important consideration since the lowest construction bid was \$329,000 more than architects' estimates.

But a petition drive opposing the plan gathered 2,000 signatures and the board voted to place the issuance on the November ballot.

District Director George Whitehead said March 14 that \$500,000 had already been spent on land acquisition, studies, research and designs.

### Sky Valley signs Palmer

Arnold Palmer has been hired to re-design Sky Valley's 18-hole championship course at the luxury Vallejo, Calif. resort.

Construction was scheduled to start this spring and the private course to open next summer.

The 1,300-acre Sky Valley project includes the course, clubhouse, golf and pro shops, two lakes, hotel, restaurant, tennis court and fitness center. ATX Inc. is the developer.

## Hope sells to environmental group

Entertainer Bob Hope will transfer 5,700 acres of Southern California property, where a golf course and country club were planned, to the Santa Monica Mountains Conservancy for a below-market \$20 million.

Hope wanted to sell the land to private developers, but had been opposed by local environmental groups. The deal ended a long debate between the largest private

landowner in the Santa Monica Mountains, and environmentalists desiring a national park preserve in the area.

The situation had occasionally turned nasty as when 15 environmentalists marched on Hope's home in late March carrying protest signs and the group's leader wearing a rubber mask of Hope's face.

The agreement preserves a

4,369-acre ranch in the Santa Susana Mountains as a public park and wildlife corridor while killing the controversial course and country club in Malibu's Corral Canyon.

It also scales down plans for another course and residential development on Hope's Jordan Ranch property in Eastern Ventura County, reported the Los Angeles Times.

## Golden Bear sued by Tennessee club

Richland Country Club in Nashville, Tenn., has filed a \$2.5 million lawsuit charging faulty construction against several companies,

including Jack Nicklaus' Golden Bear International Inc. of Palm Beach, Fla. The lawsuit claims the 18-hole course has been hampered

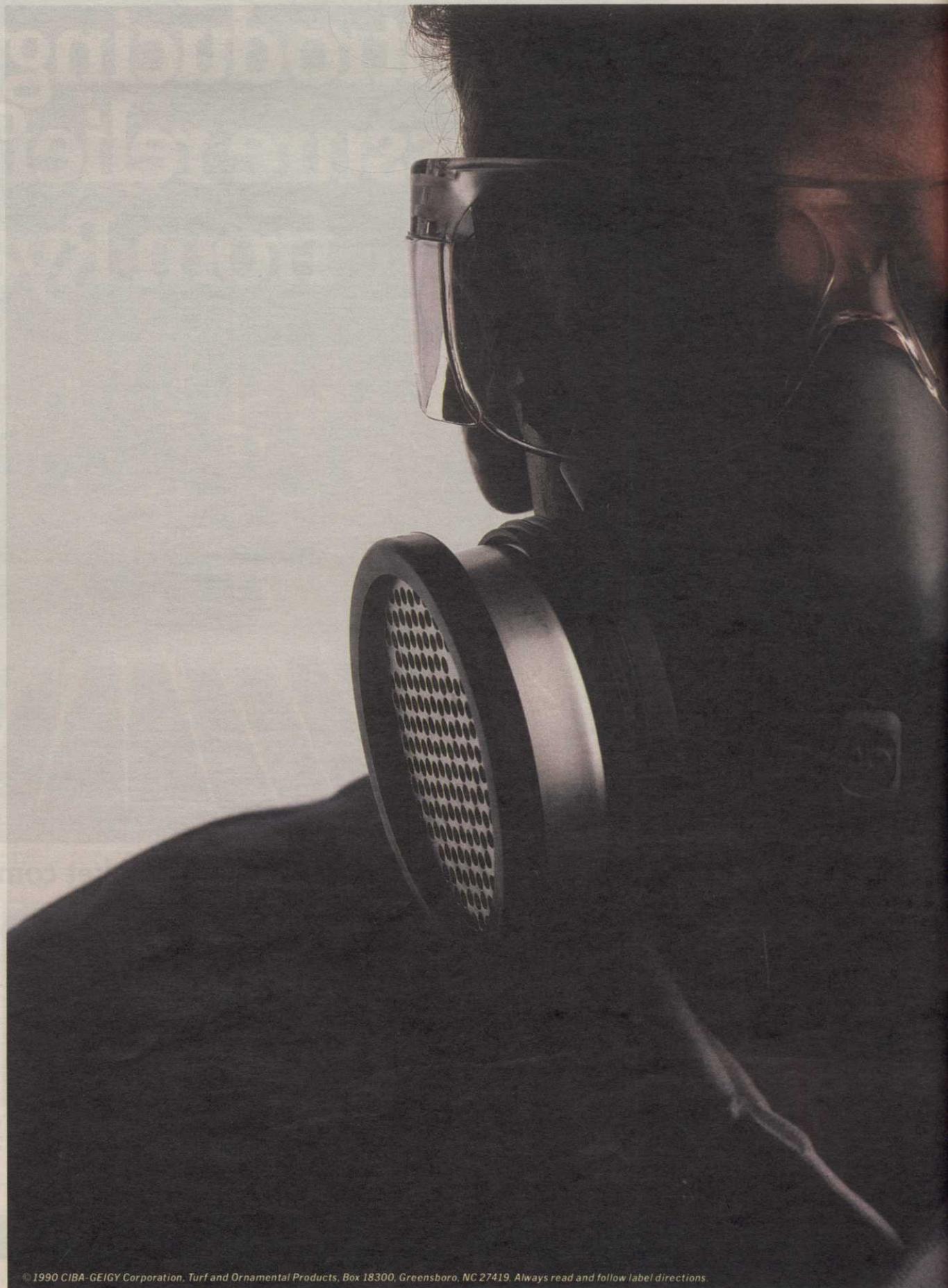
by landslides, faulty sand bunkers, improper drainage and irrigation systems and other defects since opening in September 1988.

## Firm bought, course next on agenda

Plote, Inc. of Elgin, Ill. has purchased Turnberry Development in Lakewood for \$9.5 million and will concentrate on completing the golf course, perhaps by this fall.

Plote was the highest of three bidders for the 600-acre site during a late-March bankruptcy proceeding involving McIntosh Ltd. Holdings.

Plote expected to begin working on the course and marketing home sites this spring.



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## Japanese opposition to chemicals on the rise

The tide against new courses and the use of chemicals in golf-crazed Japan continues to rise.

A recent Kyodo News Service survey said golf courses have increased so rapidly that they now cover 512,000 acres or 0.58 percent of the country. Nation-

wide, 910 courses are in the planning stage.

Fearing the loss of agricultural land, pollution from golf course chemicals, and the game's challenge to traditional Japanese culture, six prefectures have banned or restricted

new development.

A new law in Chiba Prefecture prohibits newly opened courses from using pesticides. Existing courses are being encouraged to do the same.

There are approximately 104 courses in Chiba Prefec-

ture, located just east of Tokyo, and another 101 being planned.

In the port city of Kobe, home of Japan's first golf course, a one-year moratorium on new course approvals was recently passed.

## New course added but Sacramento still short

Cherry Island Golf Course, the first new public course in 25 years in Sacramento, Calif., was scheduled to open June 1.

While expected to host 70,000 rounds annually, the Robert Muir Graves-designed facility still leaves the central California City

in desperate need of more golf holes.

Sacramento ranks 296th out of the 319 metropolitan areas surveyed by the National Golf Foundation in terms of golf holes per capita.

City officials believe Sacramento

could support another dozen courses as evidenced by the lines that form before dawn Monday to make reservations for weekend play at Ancil Hoffman Golf Course, the last public course built in Sacramento.

Six courses are in the planning

stages, although only three are sure things, according to the Sacramento Bee.

City courses are planned at Elverta, Freeport and Roseville.

Cherry Island Golf Course is an 18-hole, par-72 course built on 200 acres.

## NEWS

### Joe Lee devotees hold matches

Joe Lee Golf Courses Ltd., an association of courses designed by the Boynton Beach, Fla., architect, is organizing the first annual Joe Lee Challenge Matches.

The group's board of directors decided to conduct the matches to honor Lee, who has designed more than 350 courses around the world.

Teams of five golfers will play Oct. 5-7 at Wynlakes Golf and Country Club in Montgomery, Ala. The winning team will receive a bronze statuette of Lee and other prizes.

Michael Reilly at Wynlakes can be contacted for further information.

Challenge Matches are tentatively planned for Broken Sound Golf and Country Club in Boca Raton, Fla., in 1991 and Hampton Plantation Golf and Country Club on St. Simon's Island, Ga., in 1992.

### Harvard offers design course

The Harvard University Graduate School of Design will offer a series of open-admission summer courses on the planning, design and development of golf and other sports facilities.

Leading national practitioners will teach golf course design on June 18-19; golf clubhouse design on June 20; resort planning and design on June 21-22.

Also, marina planning and design on June 25-26; and sports facilities design and development on June 28-29.

These courses are offered among 50 summer courses and workshops in architecture, landscape architecture, computer-aided design and real-estate development at the school.

For a catalogue of complete course listings, contact Professional Development, Harvard University GSD, 48 Quincy Street, Cambridge, Mass. 02138; 617-495-9340.

### Golf car race raises \$8,000

The Make-A-Wish Foundation of central and southern Arizona was the big winner in the Second Annual Melex/Sun Cities Grand Prix on March 7. The second annual golf car-style grand prix, and pancake breakfast held at Hillcrest Golf Club in Sun City West, raised nearly \$8,000 for Make-A-Wish.

More than 500 spectators ate breakfast sponsored by The Crescent Hotel at Koll Center, and watched Media celebrities and Sun City residents pilot the cars around a slalom course, two holes of golf and out onto the actual streets of Sun City West.



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## NEWS

## Utah courses delayed and over budget

Two Salt Lake City, Utah, courses are experiencing construction delays and cost overruns, but should be opening in the near future.

The Salt Lake City Tribune reported that Wingpointe, an 18-hole municipal course located near the international airport, will open sometime in July if workers can stop alkali from leaching to the surface on one of the holes.

Wingpointe was originally scheduled to open July 1, as was Mountain Dell Lake. The latter will likely be ready for play next spring, although nine holes could be available this summer.

Wingpointe was \$347,000 over its original \$5.2 million budget and Mountain Dell Lake \$360,000 over its \$2.8 million price tag in early March, according to the Tribune. But higher-than-expected interest earnings on money set aside for the projects made additional city funding unnecessary.

## Spring Island to become golf development

A development group with plans to build an 18-hole golf course recently purchased 3,000-acre Spring Island, S.C., the largest, privately-held, undeveloped island remaining on the East Coast, according to Golf World magazine.

Spring Island is six miles northwest of Hilton Head Island.

## Aronomink denied OK for new sewer

Newton, Pa. supervisors have denied a request by Aronomink Golf Club, site of the 1993 PGA Championship, to upgrade its sewer system in preparation for the event.

The 260-acre property currently uses an on-site, subsurface discharge system. The club would like to connect to a public sewer line. But town officials won't permit it unless there is no alternative.

Project engineers have found 50 percent of the property unsuitable for a new on-site system because of soil type. Aronomink officials have ruled out another parcel because the ground would be trampled on by tournament spectators.

But town officials still believe enough land is available for an on-site system and won't allow the course to hook up to the sewer line until every possibility is explored.

## Seminar set

High school and college physical education teachers and golf coaches will have the opportunity to polish their teaching skills at a National Golf Foundation seminar, June 17-22, at Singing Hills Country Club in El Cajon, Calif. For further information contact Roger Yaffe at the NGF at 407-744-6006.

## Future of Hayward GC debated

Officials in Hayward, Calif., are trying to decide whether to reopen Hayward Golf Course or build a new facility.

The 107-acre course closed four years ago and has fallen into disrepair.

The owner would like to sell the land for housing. Many others want it to reopen or be preserved as open space, according to the Hayward Daily Review.

There is a need for more golf holes in Hayward. The city's only course, Skywest Golf Course, hosted 80,000 rounds last year, more than

twice the national average.

Three alternatives for reopening the course and one for relocating it were recently presented by city and park district administrators to a committee of councilors, school trustees and park district directors.

The reopening alternatives included having the city issue \$40 million in revenue bonds to purchase the site; building homes and retaining some land for a nine-hole course; and exploring other possible sites, like Garin Regional Park or land along the Hayward shore line.

Also considered was simply allowing developer Shapell Industries to proceed with its plans to buy the land and build 500 single-family homes.

Mayor Alex Giuliani said he has tried to interest local businesses and Japanese companies in reopening the course.

But all said the cost was too high and green fees too low, unless the city subsidized it, he added.

The committee agreed to further study the alternatives and possibly hire a consultant.

## AGC buys Skyline Woods

American Golf Corp. of Santa Monica, Calif., has acquired Skyline Woods Country Club in Omaha, Neb., and Sabal Palms Golf Club in Tamarac, Fla.

Skyline Woods Country Club will continue to be operated as a private club, while Sabal Palms Golf Club will remain a public facility. Both have 18 holes.

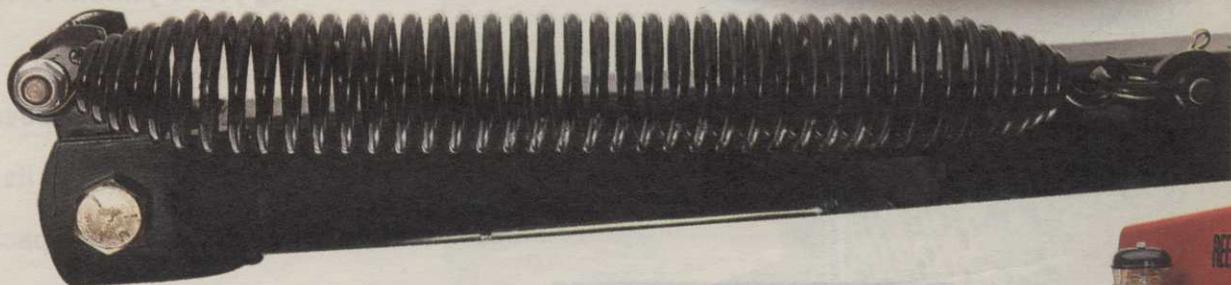
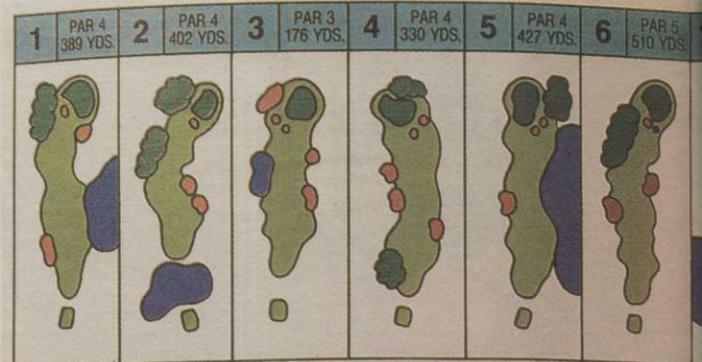
Skyline Woods' facilities include a full-service dining room including banquet facilities, swimming pool, tennis courts, exercise spa, driving range and pro shop.

Sabal Palms has a clubhouse, golf shop, and food and beverage facilities.

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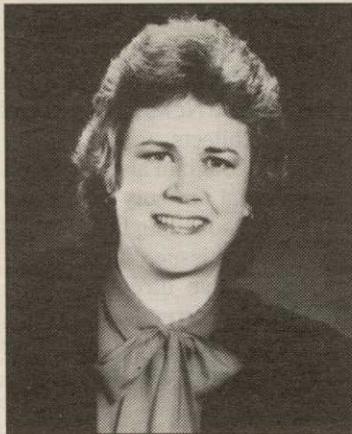
Just a twist of two dials is all it takes to adjust reel speeds. This allows you to tailor your clip length to your specific turf conditions and height of cut at the mowing speed you find most productive.



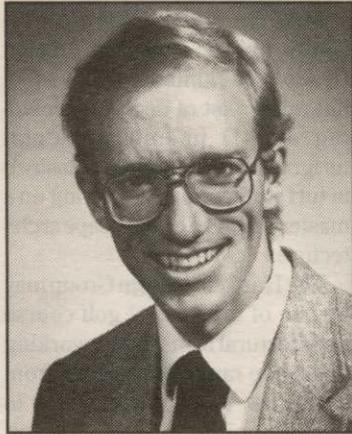
# Musser awards three scholarships

Declaring that financial support to three doctoral candidates "is the best investment we can make for the future of all sports turfgrasses," the president of the Musser International Turfgrass Foundation announced the organization's annual scholarship grants.

Musser's Frank Dobie, who is superintendent of The Sharon Club in Sharon Center, Ohio, said MITF's three \$4,000 scholarships were being presented to Phil Allen, a student in the Department of Horticultural Science at the University of Minnesota; Melodee Kemp in the Department of Crop



*Virginia G. Lehman*  
Science at Rutgers University; and Virginia Lehman in the Depart-



*Phil Allen*  
ment of Soil and Crop Sciences at Texas A&M University.



*Melodee L. Kemp*  
The grants are awarded to doctoral candidates who have dis-

## NEWS

played "high scholastic achievement and presented a well-conceived, relevant thesis problem with an element of 'pioneering' toward problem orientation." The foundation is dedicated to the memory of H.B. Musser's pioneering efforts in turfgrass research and education.

A horticulture major, Allen is studying under Dr. Donald White. His doctoral thesis concerns the germination of grass seeds subjected to fluctuating moisture conditions.

"It is an honor to share this award," Allen said. "I was impressed to learn that many turf professionals who have impacted my education and philosophy are former students of Dr. Musser. He was clearly instrumental in bringing turfgrass science out of its infancy."

Kemp's doctoral thesis deals with the effects of some root-infecting fungi on fine fescues. She is studying turfgrass breeding with Dr. Reed Funk.

A student of Dr. Milt Engelke, Lehman is studying plant breeding and her thesis concerns root and shoot tolerance of creeping bentgrass.

The MITF selection committee for the grants included Dr. Joseph Duich of Penn State University, Dr. James Beard of Texas A&M, Dr. Harry Niemczyk of Ohio State University's Agricultural Research and Development Center and Dr. James Watson of The Toro Co.

### Bates opens Western office

Golf course architects Gene Bates & Associates, Inc. of Jupiter, Fla., has opened a satellite office in Salt Lake City, Utah, to service projects in the West.

Salt Lake City was chosen for its central location for GBA's projects west of the Rocky Mountains as well as the city being a hub for a major airline.

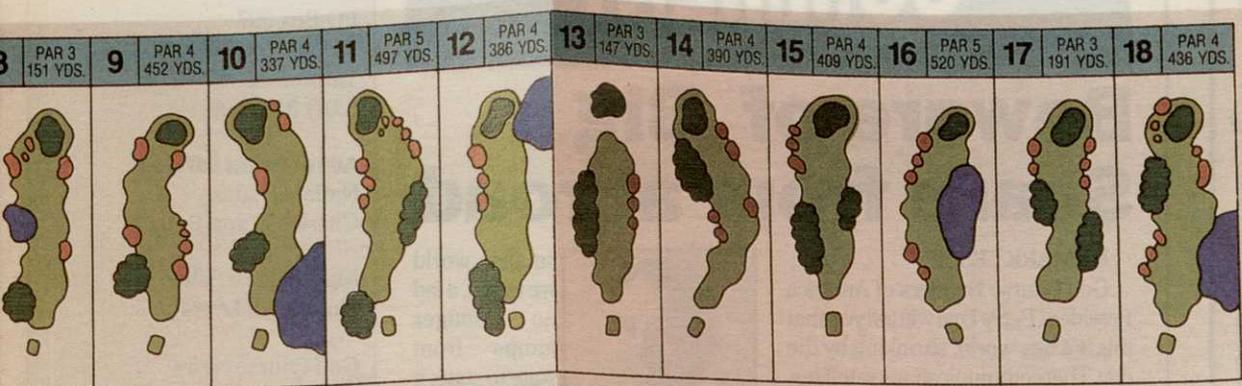
"Since we have several projects located in California, Nevada and Hawaii as well as Utah, we have found it both convenient and necessary to combine the visits to many of these sites into one trip. This saves travel time and costs which we can ultimately pass on to our clients," Bates said.

"It is far better to make one round trip from Florida than to make several consecutive trips. With our Western office we can complete any work necessary right there and revisit a site, if necessary, before returning to Florida."

The plans over the next six to eight months call for staffing the office for 10 to 12 days each month, which will be followed by placing a more permanent staff.

Gene Bates West can be reached at 270 South 1200 East, Salt Lake City, Utah 84102; 801-583-0808.

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# Bengeyfield, Hurdzan, Wadsworth on board

We set several goals early in our strategic planning that will have a positive influence on the continued success of this publication. I am proud to announce that we attained another goal this month.

We have established an editorial advisory board that will give direction and even more credibility to our consistent editorial product. You'll notice three new names added to the masthead this month: William Bengeyfield, Dr. Michael Hurdzan and Brent Wadsworth.

Anyone involved in golf course design, maintenance, building and development will no doubt be familiar with these gentlemen. Let



von Brecht

me briefly bring you up to date on their accomplishments. Bill Bengeyfield retired May 1 as national director of the USGA Green Section, where he served in that capacity since 1982. He received the GCSAA Distinguished Service Award at the February convention. He is active in turfgrass management associations and recently wrote revisions of the USGA green construction specifications.

Mike Hurdzan is CEO of the recently formed Hurdzan Design Group of Columbus, Ohio. Mike has a long list of degrees, including a PhD in environmental turfgrass physiology and a master's in turf studies, and is working on a master's degree in landscape architecture.

The Hurdzan Design Group may be one of the busiest golf course architectural firms today, working on a wide range of projects, from lower-cost municipal facilities to the \$25-million Devil's Pulpit course being built outside Toronto, Ontario.

Mike also has served as president of the American Society of Golf Course Architects.

Brent Wadsworth started his golf course construction business with John Cotter in 1958 in Plainfield, Ill. In the 30-plus years in the business, Wadsworth Golf Construction Co. has built courses across the country and in Hawaii.

The firm has 200 full-time employees, with offices in Florida,

Arizona and Illinois. Wadsworth Golf Construction Co. was recently voted Builder of the Year through a Golf Course News survey of golf course architects.

Jim McLoughlin also serves on the editorial advisory board and has been a sounding board for us from the first issue. Jim is the former executive director of the GCSAA and currently heads up a variety of golf course consulting businesses that take him worldwide.

\*\*\*\*\*

I had the pleasure of watching Greg Norman play an 18-hole exhibition with Bill Butner, John Huston and Jay Overton on the Copperhead at Innisbrook in Tarpon Springs, Fla. Greg was playing for charity and promoting the JC Penney Classic, which will be played in the late fall at Innisbrook. He is not only a world-class player (maybe the best in the world), he is a world-class person!

—Charles E. von Brecht  
Publisher

## COMMENT

### Beware of Big Scare from abroad

BY MARK LESLIE

Golf Course Builders of America President Perry Dye will tell you that this is a tiny world, shrinking by the day. That communications satellites, telephones, FAX machines, and multilingualism together mean you and I and Bernhard Langer are as close as next-door neighbors.

That fads and trends in today's world become international by the same technology that makes it possible to view the Wimbledon tournament live.

Today Manhattan. Tomorrow the world.

It seems to be so. And, if so, the golf course industry in America — and globally for that matter — would be well advised to remove any rose-colored glasses it may be wearing, pull out the magnifying glass, and scrutinize Japan.

That land-poor country is in the throes of a "green backlash" battle. Golf is a craze there. But, led by "environmentalists," Chiba Prefecture has prohibited new golf courses from using any pesticides — period — and is seeking the cooperation of existing courses in not using these chemicals.

At last count, two cities in other prefectures are following this guideline, six prefectures (like our states) have banned or sharply restricted the development of new courses, and scores of municipalities have enacted new rules to ban or limit new construction.

The Big Scare is on. And a Big Chilling golf course development could be the result in Japan. Big Deal, you say? Yes.

What I am saying is that with this



Leslie

smaller world we live in, a fad no longer jumps from state to state; it jumps from country to country. And we shouldn't be

so proud as to think that all fads, trends or rages need begin in America and fly abroad. A fad nowadays can just as easily start in a foreign country and, before we know it, take up residence in our backyard.

Golf course architect Robert Trent Jones Jr. has urged further scientific research to persuade lawmakers not to overreact.

Referring to the ban in Chiba Prefecture, Jones said, "That kind of reactive solution is not what we want to see over here."

The industry in the United States should be prepared before any over-reactive legislation is proposed on this shore. Proving itself a sound caretaker of God's earth, it should fully and aggressively — with foresight and with money — undertake research to find environmentally safe ways to maintain healthy turf.

It should continue efforts to prove or disprove, once and for all, what effects pesticides, fertilizers et al have on water supplies.

It should financially support the USGA Green Section's upgraded effort to plug the gaps in the body of research regarding the effect of chemical use on the environment.

It should undertake to educate golfers that grass does not have to be a bountiful-Irish-green to be healthy.

Continued on page 9

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**Editorial Office**  
Golf Course News  
PO Box 997  
38 Lafayette Street  
Yarmouth, ME 04096  
(207) 846-0600

**Advertising Office**  
National Sales:  
Charles E. von Brecht

Marketplace Sales:  
Simone M. Lewis

Golf Course News  
7901 Fourth St. North  
Suite 311  
St. Petersburg, FL 33702  
(813) 576-7077

West Coast Sales  
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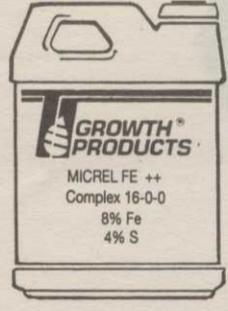
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## DowElanco extends market into agriculture

DowElanco marked its entry into the agribusiness industry at a corporate identity introduction and ground breaking ceremony for its new global headquarters June 5 in Indianapolis, Ind.

Scheduled to speak at the ceremony were Indiana Gov. Evan Bayh, Indianapolis Mayor William Hudnut, Dow Chemical Co. President and Chief Executive Officer Frank Popoff and Eli Lilly and Co. Chairman, President and Chief Executive Officer Richard Wood.

The \$100 million global headquarters will include research labs, employee development center and administrative offices. It will house 900 of DowElanco's 2,800 employees.

DowElanco is a \$1.5 billion joint venture between the plant science division of Eli Lilly and the agricultural products department of The Dow Chemical Company. Dow owns 60 percent and Eli Lilly 40 percent.

DowElanco is the largest agricultural research based company in North America and the sixth largest in the world.

## Comment

*Continued from page 8*

It should be on its toes at the starter's block and ready for the gun to sound before that gun goes off.

Different sectors of the golf community, companies included, should put petty differences aside and together promote the common good, remembering that includes a healthy environment.

A Marine acquaintance of mine, recounting how he survived the Vietnam War, said: "People ask, 'When you were in those bunkers weren't you afraid of that bullet with your name on it?' No, I was afraid of those 50,000 bullets that said, 'To whom it may concern.'"

Some major challenges lie ahead for the golf industry in the United States. Industry leaders are acutely aware of those bullets marked "EPA," "Coastal Commission," "Cultural Heritage Site," "Archeologically Sensitive Area," "Wetlands," "Endangered Species," "Zoning Regulations" and "Restricted Land Use."

They perhaps should put on a helmet to protect them from that lone "To-whom-it-may-concern" bullet—that unexpected missile from abroad, the one that could turn from cold local truth to red-hot international fact.

## Lofts, AGC agree to terms

Lofts Seed Inc. will be the exclusive supplier of turfgrass seed to about 110 nationwide courses operated by American Golf Corp., following a recent long-term agreement.

Lofts has helped AGC for the past few years developing custom formulas for the company's courses.

# LETTERS

### Klauk deserves praise for TV interview

To the Editor:

I enjoyed reading your column in the April edition of Golf Course News regarding the condition of the TPC during the Players Championship. You made reference to the good job that was done by superintendent Fred Klauk and his staff under the prevailing conditions.

Not seeing the course, I cannot comment on the condition. However, it should be noted that Fred Klauk did an excellent job in a very pointed interview by Bob Costas on national

TV. He displayed a great amount of calmness and professionalism under a barrage of negative comments by one of the media experts.

The GCSAA and all of the members should commend Fred for his response in such a difficult situation.

Sincerely,  
Terry Wilcox, VP  
Landmark Land Co., Inc.  
La Quinta, Calif.

### Encouragement

To the Editor:

I just wanted to drop you a note regarding your "Comment" column in the April issue of Golf Course News. I appreciated your comments regarding Don Rossi and his Christian beliefs.

I didn't know Mr. Rossi, only knew who he was, but I am glad to know more about him now and was especially pleased to see your comments about him and his beliefs in print. In this day and age it is nice to see someone in your position quietly testify about a lifestyle that focuses on Jesus Christ.

Thanks, your comments will be an encouragement to many Christians.

Keep up the good work. I enjoy Golf Course News and read it cover to cover each month.

Sincerely,  
Larry W. Flatt  
Flatt Golf Services  
Overland Park, Kansas

### ASGCA thanks

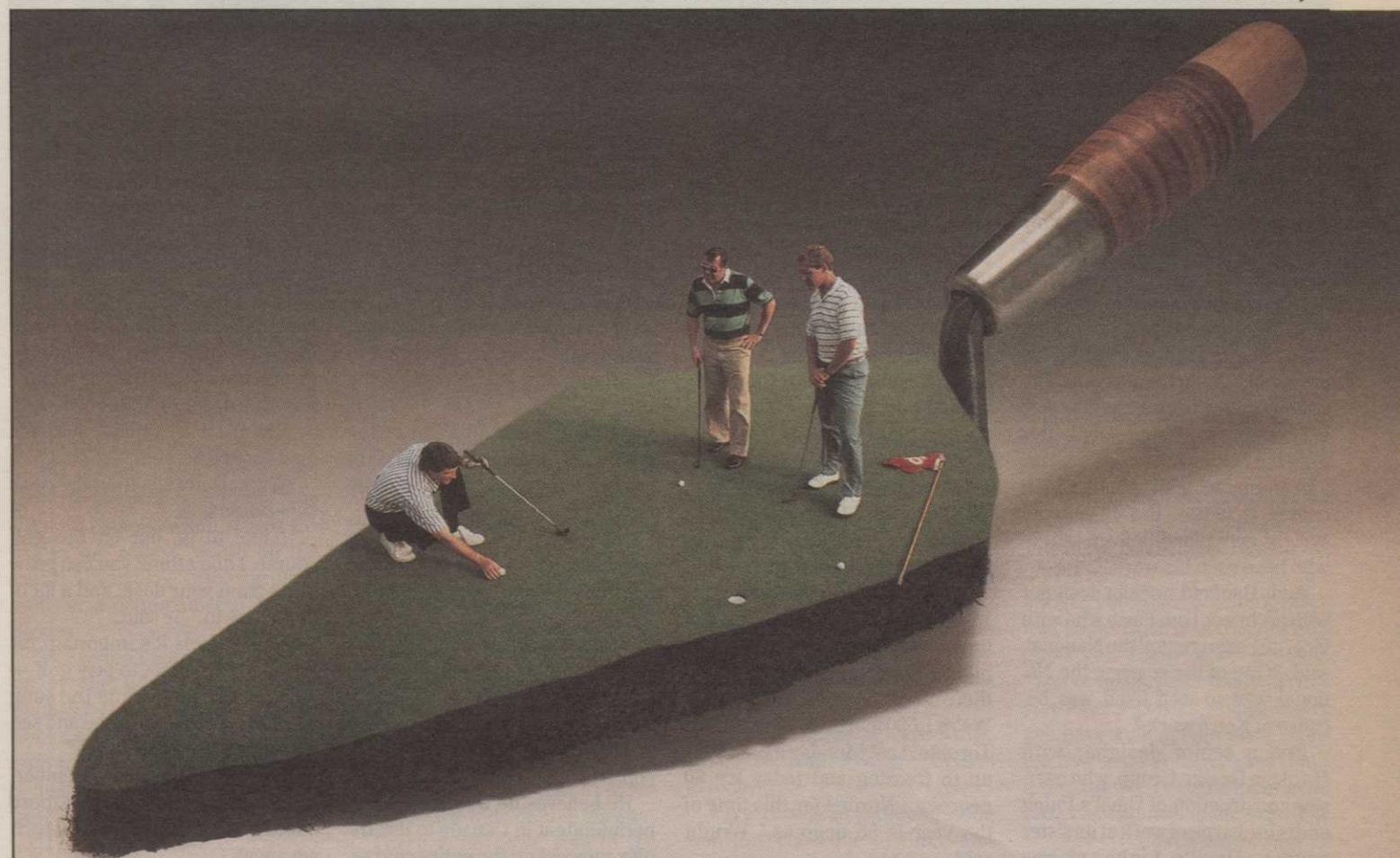
To the Editor:

You really did a bang-up job on your coverage of the American Society of Golf Course Architects' annual meeting at Spanish Bay!

The articles were interesting and thorough, providing the golf industry with an accurate portrayal of the meeting's activities.

Congratulations on a job well done and we look forward to seeing you in England next year.

Sincerely,  
Paul Fullmer,  
ASGCA exec. secretary



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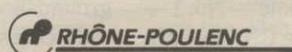
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# Wright was heaven-sent at Ontario's Devil's Pulpit

BY MARK LESLIE

Ken Wright left his job at the National Golf Club in Woodbridge, Ontario, the No. 1-ranked course in Canada, with the reputation as the No. 1 superintendent in the country.

When he did so, he left the challenges of maintaining a course with a grand reputation for well-kept grounds to accept the obstacles of putting a brand new course into the kind of shape that would surpass the National.

Chris Haney, co-owner of Devil's Pulpit in Caledon, Ontario, wanted the best course in Canada and so he hired the man he had heard was the best superintendent.

"Dana Fry (project manager) knew him. I knew of him. I had heard (some) considered Ken the best in the world. Certainly he's the best in Canada and certainly one of the best three in the world," said Haney.

"I think he's (Wright) incredible," said director of golf Doug Ball. "He's great at organizing his crew and getting things done. The course is already gorgeous the way it's growing in. It's already better than the National."

Arguments aside about which course is better, the 43-year-old Wright gets plaudits from others who have seen his work.

Andy Banfield, a senior designer with architect Tom Fazio who with George Fazio created the National, said, "One of the reasons the National was so well liked was because of Ken's work."

Fry, a senior designer with Hurdzan Design Group, who oversaw construction of Devil's Pulpit and is in charge of work at its sister course, Devil's Links, claims

Wright "has the best reputation in Canada. The National had great conditioning under him."

The challenge was what lured Wright, who had been superintendent at the National for 10 years and at Northwood Golf and Country Club in Toronto from 1973-79.

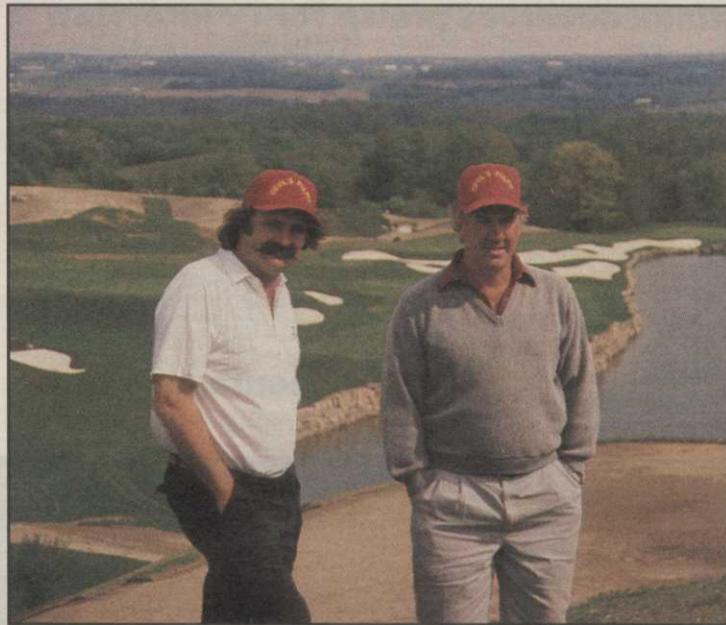
"It's an awesome piece of property. It's out of sight," Wright said. "I went over to look at the courses two or three times and I could see potential. I wouldn't have taken it if I didn't think it could be a great golf course. I think this is going to be a dynamite place. It is out in the country, has no houses around it, and is peaceful."

One reason it will be such a challenge is the mere size of the property.

"The Pulpit has 315 acres and they've used about the whole property. From our point of view it's definitely going to cost more to maintain than your average 18-hole golf course just because of its size and the amount of sprinklers. I know we'll need 25 or 30 people here (Pulpit). Fewer at the Links, which is on 174 acres. You could put two golf courses in the Pulpit land..."

Describing the job as exciting, Wright said, "I'm spending 12 hours a day here, but I can't wait to get here in the morning."

The weather in the high regions of his course causes frustration at times. "Yesterday it was up in the high 80s, yet in the shady spots there's still frost on the ground. We're 1,500 feet in elevation above Toronto. Last Monday it didn't get up to freezing and today it's 80 degrees... Normal for this time of the year is 55 degrees," Wright said.



Ken Wright, right, with Trivial Pursuit king Chris Haney at Devil's Pulpit in Caledon, Ontario, Canada.

Photo by Doug Ball

"It's hard on turf," he said, adding that he had just started up the irrigation system in early May.

The Pulpit has bentgrass on tees, greens and fairways, bluegrass in the rough and fescue outside the rough.

Keeping poa annua out of the course will be difficult, but Wright got his reputation in part by conquering the pesky poa.

"It's definitely a problem in this part of the world, but I think we've learned to cope with it pretty well," he said.

Wright said poa can be eliminated by management practices — mainly through fertilization, irrigation (keeping it dry), light-weight mowing and picking up the clippings.

He believes he was the first superintendent in Canada to use triplex mowers on the entire course,

and he now uses triplex and fiveplex.

This program worked at the National, which had 50 percent poa when he arrived, he said. "In three to four years the poa population was down to 10 percent with no chemical treatment. And it's now about 5 percent," he said.

Wright is not a behind-the-desk superintendent.

"I like to be out on the golf course. I don't think you can grow grass from your desk, and a lot of people try to," he said.

He also feels it's important for the superintendent to play golf — "at least once a week in the summertime. You play around and see what other guys are doing."

Wright sees the job of the superintendent as evolving with more computer use and other high-tech advances.

While he studied at a teachers college in Nova Scotia and attended short courses on turf at the University of Guelph, he is not of the new generation of agronomists.

"When I started in the business, superintendents were more or less farmers," he said. "Those guys have mostly all been weeded out and now everybody's got university degrees. You have to go to every conference and show you can keep up, especially with the irrigation systems."

"It's a tool for us to do a better job. We're compared to so many golf courses; the next day you don't have a job if you don't keep up."

So important is that expertise that Wright brought his assistant superintendent at the National, Chris Andrejicka, with him to the Pulpit.

"I like to put as much confidence in my assistant as I can, but I'm there, too," he said.

Wright advocates less use of chemicals on golf courses.

"All the superintendents now are quite knowledgeable and we don't use as many chemicals as we ever used to. We used three or four times as much 10 years ago. You can grow better turf without it. But you have to have some of it," he said.

Wright is content doing what he's doing where he's doing it.

"I like what I'm doing and have never looked at it as a stepping stone to another career," he said.

For now his only goal is to prepare for opening day: July 1. Reach that target and he can go on with business as usual, striving to keep one of the country's best courses in the country's very best condition.

## Haney: A mind whizzing with innovative ideas

### No extreme too extreme in his pursuit

BY MARK LESLIE

Perhaps drawing an expression from the movie "Top Gun," architect Michael Hurdzan said: "Chris Haney is the sort of person who thinks outside of the envelope."

Haney's character, his colleagues say, spills out into whatever project he's involved in. When one of those projects turned out to be a golf course, nothing changed.

The idea to build a course, in fact, was a lark.

Haney, a golfer for 29 of his 37 years who once played to a 1 handicap, plays golf with friends every Friday "come hell or high water," he said. But one Friday they couldn't get a tee time at any public course. They found themselves stewing at a pub when one buddy suggested Haney build his own course so he wouldn't have to worry about getting a tee time.

That was the only seed that

needed planting, and it led to Devil's Pulpit in Caledon, Ontario.

Haney kept three real-estate agents busy for two years exploring the countryside to find the ideal site for the Pulpit course, then laid down \$2 million for 315 acres — twice the necessary area for an 18-hole course.

"When Chris bragged that Devil's Pulpit would be considered for the Canadian Open in three years, we looked at it as an utterance from a great dreamer, which he is," said Hurdzan. "But now I think that the RCGA (Royal Canadian Golf Association) is seriously looking at it as a Canadian Open site."

Hurdzan's project manager, Dana Fry, said every hole can accommodate spectators.

Every hole certainly has its own personality — if only because each hole has its own name.

"All the holes' names are related to historical events or people nearby," Haney said.

The CN Tower Hole — No. 1 — looks directly at the CN Tower in Toronto 35 miles away.

The Memorial Hole is designed around the gravesite of two brothers buried there after they died 120 years ago. Haney has had special landscaping work done around the refurbished headstones and fencing.

A betting hole is named Jun's Hole after partner Jun Matsuura, who died in an automobile accident early this year.

When a 10-foot-high stone wall was built along a lake on the first hole, Haney joked that the course could hold the world diving championships.

When he discovered that seven miles of golf carts needed to be built, he wryly suggested hosting the world go-cart championships.

When he learned that his reported \$750,000 offer for the land for the sister Links course was turned down, he quickly responded, "Double it." And so the deal was made.

Haney, whose nearby estate has beautiful homes built for groundskeeping staff and visitors, ordered a swimming pool built for the maintenance staff at the Pulpit.

In order to ensure that they all understood what a links golf course is, Haney sent director of golf Doug Ball, superintendent Ken Wright, Fry and Hurdzan to Scotland.

"Chris wanted to make sure we all understand what he wants," Hurdzan explained.

Asked if the Pulpit project was an attempt to conquer the world of golf now that he has conquered the world of games, Haney said: "It didn't start out that way, but I guess it's turned into that now. It started out as a fun track for a bunch of buddies. Now it's almost turned into a search for the Holy Grail. It's been a nightmare, a lot of hassles. But it's worthwhile. I spend 30 to 40 hours a week here."

"Chris Haney," said Hurdzan, "is a great dreamer. He has a flair for life and that shows up in his work."

"We're just thankful that a guy like him had the confidence and patience and wisdom to trust us. Why did he pick us (to design the course)? Chris was an underdog. Until he invented Trivial Pursuit he was the consummate blue-col-

lar underdog. He felt we had the ability to perform and he gave us the freedom to do that. We welcomed his input; he was part of every decision we made. But he constantly said, 'You're the architect.'"

Ball, the director of golf, gave some insight into Haney when explaining how he came to the Pulpit. Ball and Haney had worked together and become friends when both were covering the 1973 Canadian Open as photographers for the Canadian Press, an affiliate of the Associated Press.

Years later Ball, then a 2-handicapper but now a scratch golfer, was photo editor for the Montreal Gazette.

"One day I answered the phone and Chris's voice on the other end said, 'Does today seem like a good day to quit?'"

"You're ... right it is," I said.

"I can even tell you the time and date," Ball added. "Eleven a.m. July 30, 1987."

And life hasn't been the same since — for either of the longtime buddies.

# Building Pulpit no frivolous venture for Hurdzan Group

BY MARK LESLIE

There's nothing trivial about Chris Haney's latest pursuit, a majestic 315-acre golf course 35 miles northwest of Toronto.

The co-developer of the popular board game "Trivial Pursuit" has teamed with architect Michael Hurdzan of Columbus, Ohio, to create a course that Hurdzan says elevates him from "plain vanilla" golf course designs to the "take-your-breath-away" variety.

"You kind of gasp when you get to the first tee," said Andy Banfield, a senior designer for architect Tom Fazio, in recreating his visit to the Haney-Hurdzan creation, Devil's Pulpit.

Set on a "spectacular" piece of land and built with Haney's "well, we had a budget in mind when we started" attitude, Devil's Pulpit will open July 1. And the line to play it has already formed — with 400 memberships bought and paid for at prices ranging from the early \$17,000 figure to \$55,000.

"I know golf courses around the world, and I'm hard-pressed to think of a better one," said a proud Haney, whose main partner in the venture is Trivial Pursuit co-inventor Scott Abbott.

And the course was not even complete when he spoke. The \$2-million first hole was nearing the end of its 17-month construction cycle; and No. 13, a "weak sister" in Haney's words, was being rebuilt by three scrapers and four bulldozers in May.

Hurdzan said: "I think Devil's Pulpit probably has 14 unforgettable holes. They have such strong

personalities that you just cannot forget them; and the other four holes pale by comparison simply because they are up against such strong competitors.

"You could take those four holes and put them on another course and they'd be superstars. That's the kind of golf course it is."

Fry said, "It's not as difficult as people might think by looking at it. It's a psychological golf course in that it looks hard, but it has very large landing areas."

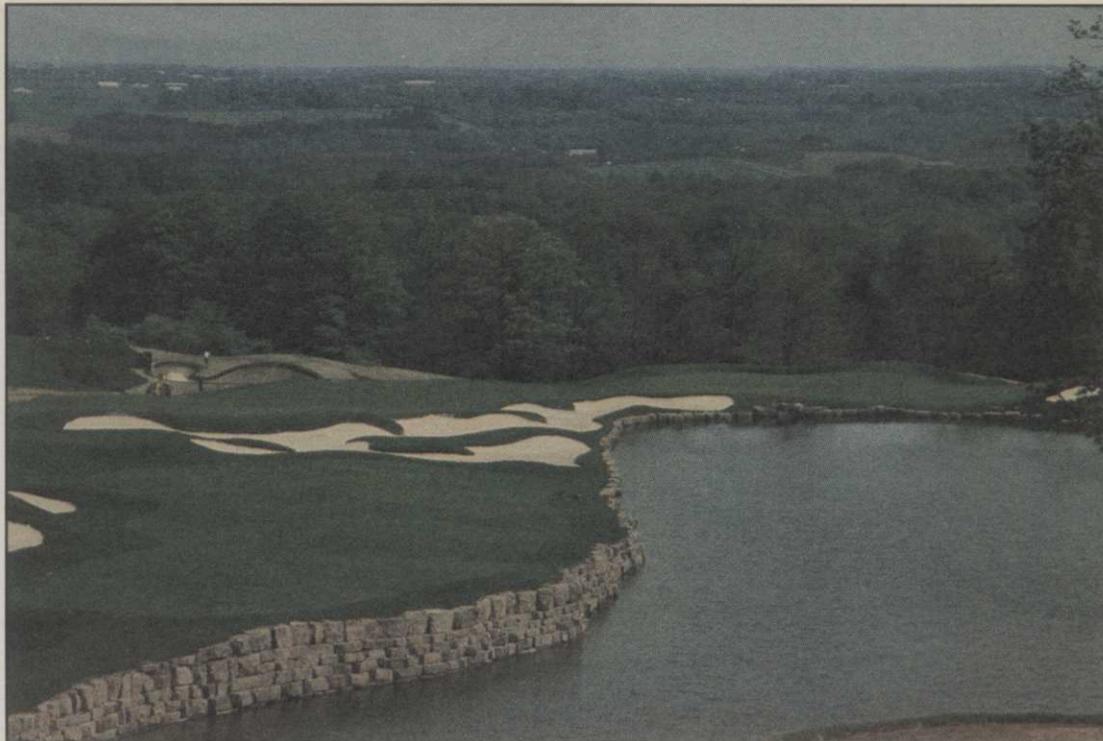
Haney's goal was to build the best golf course in Canada, supplanting No. 1-ranked National Golf Club in Woodbridge, Ontario, designed by George and Tom Fazio. Now the goal is to have the best sister courses, with a second 18 — Devil's Links — under construction on a nearby mountaintop.

Banfield wouldn't concede the Pulpit course is the best, saying, "You have to play a course to judge it." But he added: "It is a tremendous golf course, a great setting. It has spectacular holes from the first tee and a lot of dramatic golf."

"Whatever it takes" became the motto for the project, Fry said. That became obvious when Haney declared the course would fill the entire 315 acres — twice the usual land for a championship 18-hole design.

"We weren't fettered by budget or by the constraint to build houses," Hurdzan said. "I mean, here's a 315-acre piece of ground with zero houses on it. Chris said, 'I don't want houses. I want the best golf course in Canada...'"

"Those guys have tasted suc-



A view of Devil's Pulpit's first hole from one of its seven tees.

Photo by Doug Ball

cess with Trivial Pursuit ... and they recognize that in order to have something successful you have to go that extra bit. They are willing to do that, and if it means digging down into their pockets, by God they'll do it."

"Digging down" started on the first hole, called the Tower Hole because you tee off aiming at the CN Tower in Toronto 35 miles away.

Perhaps the biggest in the world, the first hole covers 25 to 30 acres and is "an engineering marvel."

"Basically the land was on a 45-degree slope and we sort of tilted the slope to 180 degrees," Haney joked.

A 10- to 12-foot-high, 400-yard-long quarried stone wall was built along the entire first fairway, separating the fairway from a lake. A seven-head-wide system irrigates the 160-yard-wide double fairway.

There is no down side to the

figures:

- \$25 million for the project, including \$2 million for the land, \$6 million for the clubhouse, and \$2 million on environmental concerns.

- 1.7 million cubic yards of dirt moved.

- 100 acres of sod including 80 acres of bluegrass in all the playable roughs, and 20 acres of bentgrass on greens, tees and fairways.

- 120 tees covering more than four acres.

- Four acres of greens, which average 8,000 to 8,500 square feet, compared to the normal 5,000 square feet.

- 128 sand traps and 80 grass traps.

- Seven miles of cart paths, which Hurdzan "went to extremes to hide."

- A second, 250-yard-long stone wall that runs one to three feet

above water on a pond between the 15th and 16th greens.

- Fifty-six pieces of earth-moving equipment kept busy at one time.

- Rainbird Maxi 4 Irrigation System, with 1,200 sprinkler heads.

"It's impossible to hit another fairway — even if you tried," Haney said. "You cannot see one hole to the next. It's like the magical mystery tour."

Hurdzan has been known as the master of \$1-million golf courses. The Pulpit has changed that.

"When you work with a low budget, you build something that's functional. But it doesn't show how good you really are," he said. "You're doing plain vanilla. When you have a Devil's Pulpit, where you have a client who says, 'Show me how good you are,' then that's a step up. We've had a lot of good projects. But this is the first time

Continued on page 12

## Take your pick: Bells & whistles or Scotland reborn

BY MARK LESLIE

When they're completed, Devil's Pulpit and Devil's Links may be the most diverse sister golf courses in the world. And that suits co-developer Chris Haney just fine.

"These are night and day," Haney said of his two championship 18-hole layouts in the hills northwest of Toronto. "You can't compare them. It's like comparing PGA West to Muirfield. The Pulpit's got all the bells and whistles. At the Links, it's like you're in Scotland; it's only missing the North Sea. Plus it's got great views — better views than (the Pulpit)."

"If you're not hitting the ball you've got something to look at, as opposed to a housing development."

Architect Michael Hurdzan of Columbus, Ohio, agreed, describing the Pulpit as an Augusta National type — "very contemporary, high-tech golf course architecture. It would make (architect) Pete

Dye smile. It has awesome vertical cuts."

The 164-acre Links course, he said, is "a Spanish Bay type and our goal is that it look like we never touched it. We're moving minimal dirt, with limited irrigation, using fescues everywhere. It will be absolutely as natural as possible."

Hurdzan was 99-percent through the maze of government approvals for the Pulpit course when Haney called him to say he had found another site. Believing Haney meant to scrap plans for the Pulpit after years in the permitting process, Hurdzan was aghast.

But Haney jumped in: "No, no, no. I have another site for a second course... It will sail right through (the permitting)."

He topped it off thus: "And this one makes Devil's Pulpit look like a mud fence."

Hurdzan couldn't believe any site could outdo the Pul-

**'You can't compare them. It's like comparing PGA West to Muirfield.'**  
— Chris Haney

pit, from which you can see downtown Toronto 35 miles away.

Yet, "I went out and looked at it, and it does, comparatively," he said. "On a clear day you can see from Niagara clear around the edge of Lake Ontario (probably 200 miles). It's at an elevation of 1,200 or 1,300 feet."

Hurdzan said the Links will truly be a links course, with only two trees being cut down, and less earth moved than on the first hole alone at the Pulpit.

Item: To ensure that they would know exactly what he wanted in a "links" course, Haney paid the way for a two-week stay in Scotland by proj-

ect manager Dana Fry, director of golf Doug Ball and superintendent Ken Wright, and a one-week visit by Hurdzan.

Item: A London taxi cab and a Rolls Royce will transport golfers from Devil's Pulpit parking lot the three miles of a dirt road to Devil's Links.

Item: The Links course will boast a thatched-roofed, English-style clubhouse where British beer is served in an Irish pub.

Item: Haney bought a flock of sheep to roam a neighboring pasture alongside the Links' 3rd hole.

Item: Wear knickers to the Links clubhouse and the first beer's free.

Haney's personality as the co-inventor of Trivial Pursuit comes through in a number of ways at the two courses. Every hole at the Pulpit is named after a local historical event or person.

One hole that adds a twist is the 11th, a betting hole. Called Jun's Hole after part-

ner Jun Matsuura, who was killed in a car accident last winter, it has two greens, making it possible to play 19 holes all together.

Teeing off on the 11th, the golfer can drive to a par 3 green to the left or to a par 4 to the right that has a bunker right in the middle of the green.

By playing the hole to the left, you can then play to the green on the right, thus creating an extra, "betting hole."

Haney said 400 golfers from North America, Australia, Great Britain, Japan and the West Indies have signed up as members. He is aiming for a total of 750 for the two courses.

"My research shows my membership is the lightest for 36 holes anywhere," he said. "Most have 900 to 1,500 members."

Said one observer: "The courses are a blast. I can't wait for the game to come out."

# NEW COURSES

## Mike Young designing three courses

Two golf course projects are underway and a third is scheduled to begin this spring for Mike Young Designs/Turf Mark Golf Services, Inc. of Watkinsville, Ga.

In Covington, about 15 miles southeast of Atlanta, The Oaks Golf Club is scheduled to open for play in July. Owned and operated by Southern Golf, Inc., the 6,700-yard, par 71 course features bentgrass greens. The course was designed to accommodate the average golfer while still challenging the more advanced player and maintaining the strategy of the game.

Scott McDaniel has been hired as the golf course superintendent.

In LaGrange, near the western border of Georgia, The Fields Golf Club plans to open its front nine in May and back nine in August.

Owned by Rosemont Hills Development Corp., the course is being built in conjunction with a residential housing development. Measuring 6,700 yards from the championship tees, the course has a Scottish-type look, bentgrass greens and will play to a par 72.

The third project, now in the planning stages, is a nine-hole addition to Hunter-Pope Country Club in Monticello, Ga., about 30 miles north of Macon.

If it proceeds as scheduled, the new nine at the private club could open as early as September.

Mike Young Designs/Turf Mark Golf Services, Inc. said its goal is "to provide courses combining attractiveness with efficient and economical maintenance, without sacrificing the strategy of the game or the beauty of the natural terrain."

## Courses newly approved in the U.S.

This month *Golf Course News* begins a new chart. We will continue to publish the following list of courses that are approved around the country. In addition, the chart on page 13 contains the sites and contacts for new courses and renovations in the preliminary planning stages. When those courses are

ready to begin construction they will be listed again in the "Courses newly approved in the U.S." chart.

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

Location	Course Name	Type	Holes	Address	Architect/Contact
<b>California</b>					
Palm Desert	N/A	D	18	Cook St. & Portola Ave.	David Phaff
San Jose	Silver Creek	P	18	Hwy. 101	Ted Robinson
<b>Colorado</b>					
Lakewood	N/A	M	9	2200 S. Kipling St.	Richard Phelps
<b>Hawaii</b>					
Maui	Kapalua Resort Village GC	N/A	18	Kapalua Resort Village	Ben Crenshaw
<b>Idaho</b>					
Coeur d'Alene	Coeur d'Alene	D	18	Coeur d'Alene Resort	Scott Miller
<b>Illinois</b>					
Moline	N/A	M	18	Scott County Park	Dan Nagle
Morris	Nettle Creek GC	D	18	Stockdale & Saratoga Rds.	L&J Construction Co., Lemont
<b>Indiana</b>					
Harrodsburg	Hoosier National	D	27	Springville Rd.	George Young
<b>Kansas</b>					
Overland Park	Westlinks of OPGC	M	9	12600 Quivira Rd.	Larry W. Flatt
<b>Louisiana</b>					
Monroe	Katewood GC	P	18	North Monroe	Herb Wilson
<b>Massachusetts</b>					
Plainville	Heather Hill CC	D	18	N/A	Bob LaRoche
<b>Minnesota</b>					
Annandale	Albion Ridges GC	D	18	Rt. 2, Box 211	Todd J. Severud
St. Charles	N/A	N/A	18	N/A	Wayne Idso
<b>Missouri</b>					
Lake Saint Louis	N/A	M	18	Freymuth & Orf Rd.	Larry W. Flatt
<b>New York</b>					
Wallkill	Windy Wes Municipal GC	M	18	Circleville	Hudson Engineering
<b>North Carolina</b>					
Davidson	River Run CC	P	18	N/A	Robert C. Walker
<b>Ohio</b>					
Canton	Emerald Lakes	D	18	Summit County	Brian Huntley
Cincinnati	Wetherington Golf & CC	P	18	Tylersville Rd.	Arthur Hills
Green	N/A	D	18	Wise & Mayfair Rds.	John Rainieri Jr.
Jackson Township	Glenmoor CC	P	18	N/A	Jack Nicklaus
<b>Pennsylvania</b>					
Denver	Fox Chase GC	D	18	59 W. Church St.	Steve Graybill
Lebanon	N/A	D	18	N/A	Ron Forse
Scottsdale	Wyndon Links GC	D	18	N/A	Ron Forse
State College	N/A	D	18	Pennsylvania State Univ.	Arnold Palmer
<b>Virginia</b>					
Fredericksburg	Lee's Hill GC	P	18	10707 Courthouse Rd., Suite C	Ault-Clark
Williamsburg	Governor's Land Club	P	18	220 N. Boundary St.	Tom Fazio
<b>Washington</b>					
Lynnwood	Lynnwood Municipal GC	M	18	City Hall	John Steidel
<b>Wisconsin</b>					
Pewaukee	N/A	N/A	9	N/A	Lohmann Golf Design

From *Golf Course News* sources

## Pulpit

Continued from page 11

"we're showing people how good we are."

Yet, even with a bountiful budget and special site, Hurdzan faced stiff challenges.

"This was an extremely environmentally sensitive site... and it was a difficult site to work," Hurdzan said.

The developers dealt with eight levels of bureaucracy to get necessary permits.

"We answered all the environmental concerns and did them through good planning and good engineering. No matter how emotional the objection was, we simply defused it with good planning and engineering," he said.

All the lakes were lined. All the drainage went into the lakes. And membrane liners were installed under every green to environmentally isolate them from their surroundings.

Hurdzan said the habitat of a trout stream bordering a green was improved by installing a cedar wall to separate it from the green, then building a bunker inside of the wall around the green. A half-acre membrane liner was installed around the green

so that water has to re-evaporate into the atmosphere.

Then the edge of the stream was riprapped to cut down erosion and landscaped with plants to keep the water cool.

The course's 300-foot contour interval meant it required a great deal of earthmoving. "And really," Hurdzan said, "that is what golf course architecture is: the art and science of modifying a piece of ground to permit the pleasurable playing of golf and facilitate good maintenance.

"Here was a very difficult piece of ground on which we were able to do that manipulation. We've done it in such a way that anybody who sees the course is going to think it looks natural. It does not look contrived."

Hurdzan said a great golf course "needs to be memorable. You play a round of golf and you remember anywhere from one to 18 holes. Anyone who's ever played Cypress Point is never going to forget 15, 16 and 17."

His rating of 14 unforgettable holes at Devil's Pulpit makes it memorable.

Haney and Hurdzan both feel the Pulpit is a perfect site for the Canadian Open.

Hurdzan noted it is close to a large metropolitan area and has "tremendous spectator qualities" with room to handle large crowds on every hole; a lot of room for corporate tents; "a phenomenal practice area"; a club that is "elegant in every appointment"; and is "a very stern test of golf from the back tees."

Hurdzan said each hole has at least five sets of tees, and one has 11.

"The reason is, we wanted to set the golf course up so that no matter what playing ability someone has, if they choose the proper set of tees, they can go out there and play it and enjoy themselves.

"The golf course is beyond no one's ability."

It is, however, beyond many golfers' ability to pay. Greens fees for guests will be \$100.

Profits? There are none. "It's a non-profit corporation," Haney said.

After all, Haney is not involved for money. At latest count, 85 million Trivial Pursuit games had been sold. Haney needn't look beyond the view for his satisfaction.

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# Courses newly proposed in the United States

Following is a new chart we hope *Golf Course News* readers will find informative. The chart contains 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 in the "Courses newly approved in the U.S." chart. We would appreciate your help in updating this new section. To contact us call 207-846-0600 or write *Golf Course News*, 38 Lafayette St., Yarmouth, Maine 04096.

Location	Contact	Location	Contact	Location	Contact
<b>California</b>		Cook County	World Wide Golf Inc., Westmont	<b>New Jersey</b>	
Bakersfield	Sill Properties	East Moline	Dick Stulir	Bernards	The Hills Development Co.
Costa Mesa	Orange Cty. Parks Dir. Robert Fisher	Forreston	Byron Forest Preserve District	<b>New York</b>	
Half Moon Bay	City Manager Mark Weiss	Gurnee	Village Administrator James Hayner	Goshen	Hudson Eng. Assoc., Campbell Hall
Lincoln	Lincoln City Council	Lake County	Countryside Golf Course	Somers	Mitsui Fudosan Inc., Japan
Napa	Western Industrial Group	Lake Forest	Wallace E. Carroll	<b>Ohio</b>	
Novato	TFC Development Co., San Rafael	Lockport	Robin Hill Development Co.	Green and	
Palm Springs	Brian Adler, Beverly Hills	Mt. Pulaski	Mayor Larry Montgomery	Springfield Tnps	Richard Todd Jr.
Paso Robles	Kenneth Hunter Jr.	North Riverside	Riverside GC	Warren	Ohio Water Service
Petaluma	Jim Revoir	Robinson	Oak Glen GC	<b>Oklahoma</b>	
Pismo Beach	First Golf Corp., Denver	St. Charles	DuPage Airport Authority	Owasso	City Manager Rodney Ray
Pleasanton	Jack Nicklaus	St. Charles	James Follensbee	<b>Oregon</b>	
Pleasanton	Kenneth Dye	Stockton	Forum Dev.t Group, Bloomingdale	Oregon City	Dave Powers, Lake Oswego
San Marcos	M.J. Brock & Sons	Sugar Grove Tnp	Fox Valley Park District	Oregon City	Michael McMain, Mulino
San Martin	Daniel Rubenstein	Yorkville	Mayor Robert Davidson	The Dalles	Int'l Entrepreneurial Cultural Univ.
Santa Barbara	Rob Robinson	Zion	Audrey Nixon	<b>Pennsylvania</b>	
Scotts Valley	APC Development, San Jose	<b>Indiana</b>		Anville	Phil Feather
Sutter County	Edward Quinn	Anderson	Rosewood Partnerships	Buckingham Tnp	Frank Finlaw
Tracy	H.R. Remington Properties	Indianapolis	Richard Lewis	Cranberry Tnp	Cranberry Park Assoc.
Wasco	AG-III Enterprises, San Diego	<b>Maryland</b>		Manheim Tnp	WHB Properties, Lancaster
<b>Colorado</b>		Clarksburg	Mike Horrigan	Manor Tnp	Murry Assoc.
Canon City	Dye Designs, Inc.	<b>Massachusetts</b>		North Coventry	John Albright Jr.
Steamboat Springs	Dye Equity, Denver	Pittsfield	Parks Commission	Pittsburgh	Ricon Development Ltd.
<b>Connecticut</b>		Princeton	Bruce Romanello, Sudbury	Rillton	Golden Development, Inc.
Glastonbury	Metropolitan District Water Comm.	Scituate	Richard Ridder	<b>Rhode Island</b>	
North Haven	Stephen Papa	<b>Michigan</b>		Charlestown	Albert Veri, Providence
Redding	R.K. Health Services Inc.	Byron Township	Landmark Realty Advisors Inc.	<b>Tennessee</b>	
<b>Delaware</b>		Dearborn	Dearborn Hills GC	Clarksville	Gene & Herbert Baggett
Wilmington	Rock Manor Associates	Hartland	Nicklaus/Sierra Development Co.	<b>Utah</b>	
<b>Florida</b>		Independence Tnp	Robert Forte, Southfield	Hurricane	Dudley & Assoc. Engineers
Stuart	Clark Collins Inc.	Orion Township	Robert Forte, Southfield	Ogden	Earl Holding, Snowbasin Resort
<b>Georgia</b>		Shelby	Town Council	Salt Lake City	Dale Eastman, Park City
Augusta	Bartram Train Inc.	<b>Missouri</b>		Sandy	A-E Intra Group
Augusta	Port Royal Associates Inc.	Kansas City	Sullivan Hayes Cos.	Sandy	George Schneider
Snellville	Southland Development Corp.	Springfield	Gene Boles	<b>Virginia</b>	
<b>Hawaii</b>		<b>Montana</b>		Powhatan County	County Planning Commission
Lanai City	Oceanic Properties Inc.	Kalispell	LHC of Kalispell	Shadwell	John LaFoy
Maui	Sokan Hawaii Inc.	<b>Nebraska</b>		<b>Washington</b>	
Waikane	Waikane Development Co.	Pender	Martin Johnson, Sioux City	Spokane	Spokane Park Board
<b>Idaho</b>		<b>Nevada</b>		Stevenson	Columbia Gorge Commission
Cascade	Valbois Inc., Boise	Reno	Convention & Visitors Authority	<b>Wisconsin</b>	
<b>Illinois</b>		Round Mountain	William H. Neff	Janesville	Richard Teske
Aurora	Primus Corp., Oswego	<b>New Hampshire</b>		Pleasant Prairie	Marc Development Corp.
Bristol	Ron Walker, Yorkville	Concord	Broken Ground Development Corp.	Pleasant Valley	Steve Johansen, Eau Claire
Cahokia	Mayor Mike King				<i>From Golf Course News sources</i>

## Lohman starts Illinois project

Lohmann Golf Designs recently began a three-year, three-phase renovation of the 27-hole Schaumburg Golf Club in Crystal Lake, Ill.

Each phase will concentrate on an individual nine holes with the first phase scheduled for this April through August.

Lohmann's plans call for developing new greens and tees, rerouting holes to allow for a new driving range, installing a new irrigation system, and converting fairways to bentgrass.

Company President Bob Lohmann will head the project. "Even though our renovation plans are extensive, we will keep the character of the holes and course intact. When completed in 1992, Schaumburg will be an exciting and challenging public course," he said.

During each phase, Lohmann will concentrate on one nine, leaving the other 18 open for play. Golfers will face little or no renovation inconveniences.

Schaumburg Golf Club, formerly Golden Acres Golf Club, was designed by Langford and Moreau in 1928 and purchased by the Schaumburg Park District in 1989. Lohmann Golf Designs is located in Crystal Lake.

## IMPROVED YARDAGE MARKERS PAY BIG DIVIDENDS

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## Developers hold breath awaiting Fla. decision

BY PETER BLAIS

A Southern version of Sherman Hollow? Developers of Eastpoint, Fla.'s Green Point Golf Club hope not.

"You read about things like this. But you never think it will happen to you," said Green Point project manager Chuck Crabtree, referring to the lengthy environmental review process that has plagued the Huntington, Vt. course and a similar one that could ensnare his own.

Principals Jack Dodds and Dave Tuplin have spent the last 18 months and \$1.2 million trying to meet state environmental concerns regarding their proposed \$25 million project on the shores of northwest Florida's Apalachicola Bay, said Crabtree.

The state's Department of Community Affairs, which oversees land planning in Florida, shocked developers by recommending rejection of the project two days before a scheduled Franklin County Board of Commissioners public hearing, said Crabtree.

The county commissioners ignored the DCA's advice and unanimously approved the project following April's public hearing, Crabtree said.

But the DCA could still appeal the commissioners' decision, a move that could delay construction for years and ultimately kill Green Point, Crabtree added. The DCA has until mid-June to appeal.

The sticking point is 25 acres of golf course

## GOVERNMENT UPDATE

located along the shores of environmentally sensitive and economically depressed Apalachicola Bay.

The Gulf of Mexico serves up some of the world's most flavorful oysters and shrimp to the fishermen of Franklin County, among the poorest counties in the state. Fishing is one of the area's major industries. But pollution closed the bay to fishing for five weeks during the first four months of this year, said Crabtree.

The state has designated the bay "an area of critical state concern," in effect removing final land-planning powers from local governments and giving it to the state through the DCA. Portions of the Florida Keys, Green Swamp in

central Florida and Big Cypress Swamp in southwest Florida are the only other regions so designated.

"Local governments aren't always pleased with the state oversight. But the Legislature set up the program. It's up to the DCA to carry it out," said Morgan.

The DCA will make a recommendation on Green Point to the governor and cabinet, who are required to make final development decisions in areas of critical state concern.

If the DCA recommends against the project, the governor and cabinet would turn the matter over to the Division of Administrative Hearings for further review.

"It would probably take several months to get a decision at that level," conceded DCA spokesman Richard Morgan.

Green Point is a 540-acre development that would include an 18-hole championship course designed by Lloyd Clifton; 275 single-family homes; 500 multi-family units; recreation complex; and bed-and-breakfast. Approximately 150 acres, including several golf holes, are located in the southern watershed that DCA officials fear could drain into the bay.

"Our concern is the location of the golf course," said Morgan. "Several holes would front on U.S. 98. The drainage would run under the road and directly into Apalachicola Bay. Our job is to stop any degradation of the bay. It's a source of a thriving oyster industry and the pollutants could make their way into the bay."

But Green Point has taken steps to ensure that runoff wouldn't end up in the Gulf, Crabtree said. Developers have agreed to install a storm water system that would capture any runoff before it reached the ocean. The storm water system, which Crabtree believes will become a model for other developments, is one of several modifications made in response to DCA concerns. Others include:

- Tying the project into the local wastewater treatment plant and upgrading the facility at the developers' expense.
- Installing pumps to remove water from the 10 southern watershed lakes to the northern part of the property;
- Digging monitoring wells to constantly check ground water quality.

"It was a major expense to redesign our original plans. But we bit the bullet," said Crabtree.

Developers believed they had met all DCA's requests until the state agency announced it would not approve the project unless the golf course was moved, the project manager said.

"It was the first time we'd heard that," said Crabtree. "We can't move those golf holes. More importantly, there's no reason to."

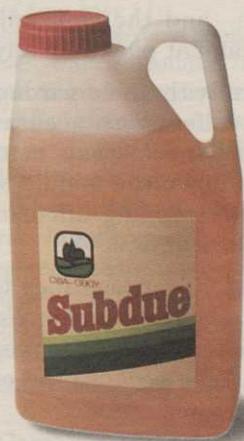
"We believe that if you took all the wastewater the project would produce, and dumped it in the bay, it wouldn't contaminate it. We would put 50,000 to 70,000 gallons of treated water into the bay every day. The (Apalachicola) river dumps in 16 billion gallons of untreated water every day with a lot of it coming down from Atlanta."

"The greens take up just two acres in the southern watershed. Yet if we don't move the course, they won't approve the project. That's terrible."

Countered Morgan: "Our concern is the Green Point development. We need to deal with that specifically."

Crabtree had hoped to begin construction in March and open the course by December. Now it's unlikely construction could begin before September with the course opening no earlier than mid-summer 1991. If the DCA appeals, it could be much later, he added.

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# High Court expected to rule on Portland case

A decision is expected in June on the Portland (Ore.) Golf Club case before the U.S. Supreme Court.

On April 17, the rights of tax-exempt private clubs to consistent treatment on the taxation of investment income were argued before the U.S. Supreme Court by National Club Association tax counsel Leonard J. Henzke Jr. He was assisted by Allen Bush, counsel for Portland Golf Club, the petitioner.

The NCA said the culmination of a nine-year struggle with the IRS, the Portland case "will determine the level of fairness granted to private clubs in the taxation of investment in-

come," as embodied in Revenue Ruling 81-69.

In enforcing Rev. Rul. 81-69, the IRS contended that tax-exempt clubs must show a profit motive before they can be allowed to offset losses from certain non-member activities, after allocation of overhead, against taxable investment income.

The IRS contends that most unrelated business does not demonstrate a profit motive, and therefore clubs should be taxed for investment income as if there were no counterbalancing losses.

"We have fought against this unjust interpretation since it surfaced in 1981," said NCA

President George Squibb. Henzke asserted that many large, for-profit corporations never pay taxes as the result of paper losses but, nonetheless, stay in business by making real gains. Henzke implored the High Court to use, with clubs, the same economic profit standards applied to for-profit corporations.

Henzke further explained applicable Tax Code provisions, pointing out that the IRS's interpretation, embodied in Rev. Rul. 81-69, was not supported by the text of the Code.

"Congress is free to change this law, but neither the IRS nor this court have that power," Henzke said. "At the very least, clubs deserve

the same freedom as other taxpayers to show they have made a real financial profit, even though for tax purposes they might show a loss."

Henzke argued there are conflicts between and among federal circuits. "The financial planning of clubs is in limbo. Our member clubs ask the court to settle this issue, telling them in dependable, absolute terms how the tax laws will be applied to their activities."

The government's attorney, Clifford M. Sloan, argued that the Portland Club had failed to demonstrate a profit motive, which, in the IRS's view, is required by law.

## Vegas

Continued from page 1

tent, by the amount of treated sewage it returns (known as return flow credits) to the river.

Nevada's annual 300,000 acre-feet Colorado River allocation could last into the next century, according to the CRC budget. But by returning effluent to the river, another 180,000 acre-feet could become available.

With the growth in the region (4,000 new residents migrate there monthly and water use was up 13.5 percent in the first two months of 1990), the commission is concerned that using that effluent on courses, rather than returning it to the Colorado River, could affect southern Nevada's future drinking water allocation.

In fact, CRC Chairman John Moran Jr. has stated his objection to more golf courses.

But that's a view "we were all very surprised to hear," said James Gans, director of the Clark County Sanitation District, which operates the district's sewage treatment plant.

"There is a considerable question whether the CRC even has the authority to regulate the use of treated water," Gans said.

Gans said there is a demand for more courses. The Las Vegas Valley Water District favors courses using effluent rather than potable (drinkable) water whenever possible, he added.

While most Las Vegas-area courses don't use effluent, four do and others are considering it, according to William Rohret, president of the Southwest Golf Course Superintendents Association and superintendent at 54-hole Sunrise Country Club.

Sunrise, Desert Rose, Showboat and Black Mountain in Henderson use effluent, also known as "gray water," said Rohret. Another dozen or so facilities are on the drawing board, some of which would like to use gray water, he added.

There is a definite financial incentive to use effluent.

As a conservation measure, the water district will raise the price to major users of river water (read golf courses) by 30 percent, to around \$1.10 per 1,000 gallons, effective Oct. 1.

Gray water is about one-fourth the cost at approximately 25 cents per 1,000 gallons, said Gans.

"That's one of the reasons superintendents would like to see more use of effluent," said Rohret.

Another reason is that superintendents want to see the area prosper, Rohret added.

"Las Vegas is built on tourism, and golf courses are a big part of tourism," said the Southwest GCSA official. "If we fail, the tourist industry fails."

"Things have just exploded around here in the last 10 years. Continued growth throughout the valley is dependent on water. What will restrict growth here is the availability of water. No one wants to run out. We'd like to work with the CRC on alternatives."

One of the alternatives most discussed is the construction of satellite sewage treatment facilities.

Smaller than the main facility in the eastern section of the valley, the satellite plants would be located in the western valley, where most

new development is taking place.

"The water district would like to see something like that. They figure that electricity to pump the water makes up about 50 percent of the cost of getting it to the customer," Gans said.

Sanitation district studies show the capital costs of building satellite plants would raise the price of treated water to 70 to 75 cents per 1,000 gallons. But that's still well below the water district's charge of \$1.10. Effluent and fresh water prices will likely go higher in the future, Gans said.

A CRC decision to ban the use of effluent on golf courses could have even greater effects on Laughlin, a tourist town located 90 miles south of Las Vegas.

"Las Vegas' growth looks slow compared to Laughlin," said Gans.

Laughlin is using two-thirds of its 10,000 acre-feet allocation. The remaining third is already promised to developers. That means the city is, in effect, out of water for future growth. Gans is hopeful more water may be made available. But there is a waiting list of proposed developments ready to drink that down.

There is one course, Emerald River, in Laughlin. It is paying \$1.94 per 1,000 gallons for water, said Gans. But it can tap into effluent supplied by the sanitation district's \$32 million treatment plant, scheduled to open in mid-1992.

"There's a lot of room for more courses in Laughlin. But it looks like the CRC will take the same stand there on effluent," said Gans.

Gans said he realizes the CRC is between a rock and a hard place in allocating water.

"Rapid growth is placing a tremendous demand on a very small, finite supply," he said. "Yet current policy allows a gallon of water to be removed from the river only if a gallon of Colorado River water is put back in."

Other possibilities for getting water to the rapidly developing Las Vegas valley are being considered.

The Resource Conservation Group, made up of representatives of the seven states contiguous to the Colorado River basin, has discussed ways of getting water from the water-rich/cash-poor upper basin states (Wyoming, Colorado, New Mexico and Utah) to the water-poor/cash-rich lower basin states (Nevada, Arizona and California).

"Getting an allocation change from the the Department of the Interior is possible, but not probable," said Gans.

Building a water pipeline to import 300,000 acre-feet yearly from Nevada's northern counties to Clark County is also being considered. But the estimated cost of the 10-year project is \$1.5 billion.

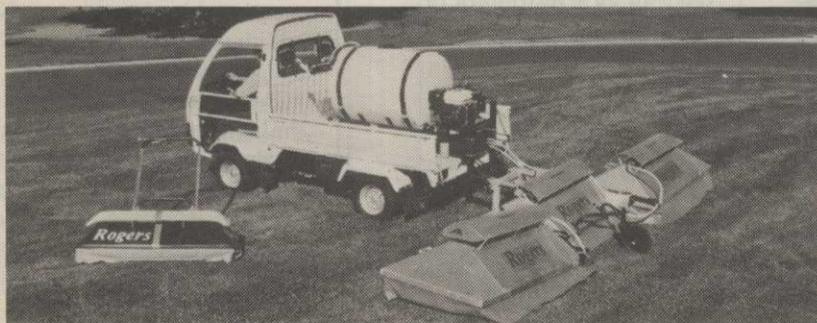
For now, conservation and effluent seem the solution, for both existing and new courses, according to water district conservation manager Linda Littell.

"Hopefully courses can reduce the turfgrass areas they have to irrigate," she said. "Their irrigation systems are already magnificently efficient, much more so than our residential users."

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# Military courses face extreme measures

BY PETER BLAIS

The loss of appropriated funds to run most military golf courses is forcing many base commanders to significantly raise fees, eliminate low-cost memberships and, in some cases, consider closing their courses, according to government officials.

As of last Oct. 1, congressional guidelines forbid the use of any appropriated federal funds to pay for items like utilities and payroll at revenue-generating facilities — golf courses, officer and NCO clubs (takes effect Oct. 1), bowling centers, movie theaters and the like.

Overseas courses and those in remote areas may still receive some federal assistance.

"Basically, all state-side courses have to pay their own way," said Roger Patrick, golf program manager with the Navy's office of Morale, Welfare and Recreation.

There are 249 military courses worldwide. The Air Force leads with 95. The Army has 83, Navy 59 and Marines 12. Among them are some beautiful facilities including the Army's Presidio Golf Course in San Francisco, the Pearl Harbor Naval Station course (the Navy's busiest facility with more than

**'Basically, all state-side courses have to pay their own way.'**

— Roger Patrick

Navy golf program manager

80,000 rounds per year) in Honolulu, the Marines' Kanehoe Bay (Hawaii) facility, and Andrews Air Force Base's 36-hole complex in Clinton, Md.

With the annual federal deficit somewhere between \$100 billion and \$200 billion, all have come under budgetary scrutiny.

Base commanders are decid-

ing how to handle the loss of funds at their facilities. Since each situation is different, the problems and solutions are different. For instance, a course that has its own water supply will not be as severely affected as one that has to buy water from a nearby water company.

"Each individual base is differ-

ent. That's why you can't just raise greens fees 10 percent (across the board) to solve the problem," said Paul Piper, the Army's planning manager for golf. "It will definitely force us to become better managers."

To improve course management, the Air Force contracted with the Professional Golf Association to analyze operations at 15 of its courses. The study resulted in 46 recommendations, "some significant, some minor," said Ron Edmiston, golf and bowling program manager for the Air Force. Those recommendations will be discussed at a June symposium for course managers.

Among the recommendations were management incentives for running a cost-efficient operation and more closely tracking how often individuals are playing, said Edmiston.

For defense department personnel, greens fees and memberships at military courses have traditionally been a bargain compared to public facilities.

"We've seen daily fees and charges rise somewhat at most of our courses," said the Navy's Patrick. "Some of the larger bases have eliminated or modified membership plans. Those who played a lot were sometimes paying less than a dollar per round. Many courses are putting more emphasis on the more-expensive daily fees. The philosophy is that those who play should pay."

"We're making a major evaluation of our fee structure which is likely to result in higher fees," said Greg Gordon, head of the Marines' outdoor recreation section.

Edmiston estimates fees have increased between 80 and 100 percent at Air Force courses over the past three years.

"We're looking at innovative fee structures," said the Air Force official. "Say you have a course where a lot of retirees play. You've got a guy paying \$300 for a membership and playing 300 rounds a year. That's \$1 per round. But the course must make a profit.

"So you look at daily fees. If you charge everyone \$7 a round, you know you'll get \$7 every time someone plays your course. The public sector has shown that daily fees generate more income."

Higher cart rental fees and maintenance fees over-and-above membership costs have raised additional funds at some Navy courses, said Patrick.

People have complained about the higher fees, but generally keep playing at the military facilities, said Patrick. That's because, even with the increases, Patrick estimates the cost of playing at a military course is between 60 and 75 percent of that at municipal and daily fee facilities.

"Military courses aren't capitalized like most daily fee and municipal courses. They don't have the debt service or lease payments. So

Continued on page 17

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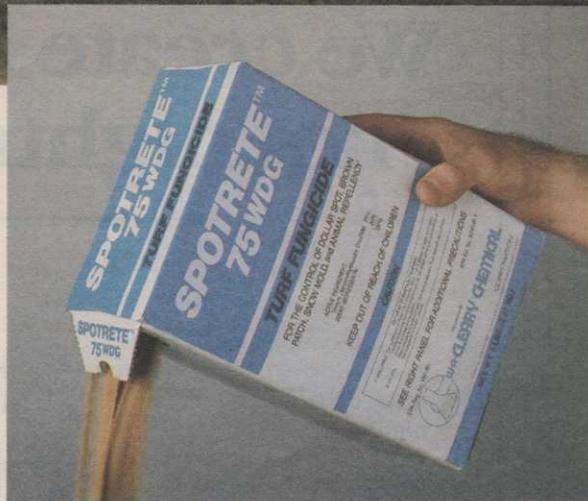
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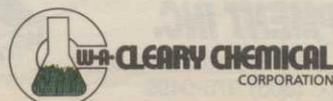
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# Military

Continued from page 16

their costs are lower," he explained.

But even with lower costs than their public-sector counterparts, and with golf being more popular than ever, some military courses could be in trouble.

### Closings possible

"There are moves afoot to close some courses," said the Army's Piper, although he offered no specifics. "If a course can't make money, then it may have to close down. Nothing is happening, yet. But if you have an installation where training leaves little time for playing golf, and there isn't a big retirement community that plays, then that course could shut down. It costs a lot of money to run a golf course."

"Some courses might close," agreed Patrick. "There haven't been any closures to date. But we operate a lot of nine-hole courses, some in low-population areas. The nine-hole ones are more vulnerable than the 18-hole ones."

The Air Force operates 34 nine-hole courses. Edmiston estimates one or two could close in the next few years.

Gordon said no Marine courses have been specifically identified for closure. "But closing a course is a real possibility. We have some that aren't paying their own way," he added.

Raising revenue by allowing non-military personnel to use military courses is an idea that is frequently mentioned, although it is currently forbidden. Security is an obvious concern. So, too, is competing with public and private courses.

Military courses are forbidden from competing with non-military facilities. However military facilities can host civilian tournaments if supported by community relations guidelines. And corporations can sponsor tournaments for military personnel.

But non-Defense Department personnel aren't allowed access to military courses, although that could change.

A joint military-private sector venture is being tested at the Naval Air Station at Cecil Field in Jacksonville, Fla., according to Patrick.

The course needs renovating. The Navy is putting the job out to bid. In exchange for renovating the course, the Navy will enter a long-term agreement with a private golf management firm to operate the course. The Navy would share in any profits.

The course, which is on the base's perimeter, would also be open to the public. Non-military golfers could make reservations two days in advance and would pay market rates rather than the discounted military rate. A special pass allowing access to just the course would be left at the gate.

"We'll put it out there to bid and see what happens," said Patrick.

Edmiston said the Air Force is watching the Navy's Cecil Field experiment closely, but doesn't

plan a similar venture soon.

"We'd like to see what we can do ourselves in the present environment," he said. "Management companies don't want nine-hole operations because it is difficult to make a profit. But they have said they will take a few losers if we give them some winners. We'll see."

Despite the loss of appropriated funds to run their operations, and the upheaval that's caused, military officials are generally upbeat.

"In the long run, our services and management will be better," said Edmiston. "If they're not, we'll be out of business."

## Nine courses on bases due to close

BY PETER BLAIS

Among the 86 U.S. military installations marked for closing by the Department of Defense are five Air Force and four Army facilities with golf courses.

Some are in areas of the country in desperate need of more courses.

With closings expected to begin later this year, Army Golf Manager Paul Piper and Air Force Golf and Bowling Program Manager Ron Edmiston said they expect considerable public and private sector interest in taking over those courses.

Norton AFB's 18-hole course is

located 59 miles east of golf-starved Los Angeles, ranked a lowly 316th in terms of total golf holes per capita among the 319 metropolitan areas surveyed in 1989 by the National Golf Foundation.

Other Air Force installations with 18-hole courses that are scheduled to close, and their NGF rankings, are Mather AFB, 12 miles east of Sacramento, Calif. (296th); Pease AFB, three miles west of Portsmouth, N.H. (184th); and Chanoute AFB, 14 miles north of Champaign, Ill. (58th). A nine-hole course at George AFB, 60 miles northeast of Los Angeles, is also going on the shelf.

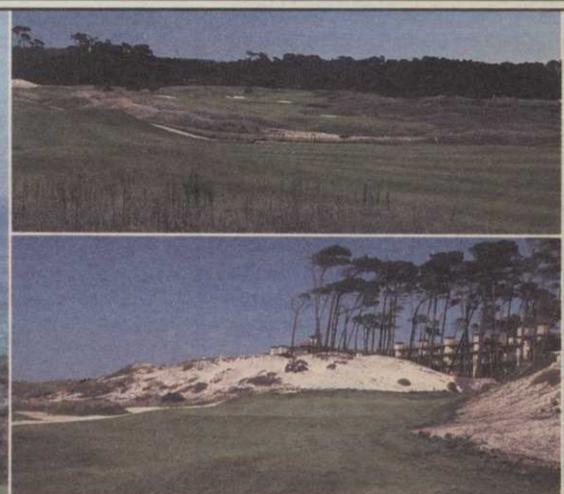
A soon-to-be shut-down Army installation, the Presidio of San Francisco near the Golden Gate Bridge, has one of the country's best 18-hole courses, according to Piper. San Francisco is ranked 311th among metropolitan areas by the NGF.

Eighteen-hole facilities at Fort Sheridan in Chicago (292nd) and Fort Dix, near Trenton, N.J. (220th), will also close. So, too, will a nine-hole course at Lexington Depot in Lexington, Ky. (72nd).

No Navy or Marine facilities with golf courses were recommended for closing by the Commission on Base Realignment and Closure.



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# Hogan's heroes: Supers at

BY PETER BLAIS

Course conditions have run the gamut from "superb" to "needs improvement" over the first half of the Hogan Tour's freshman year, according to Professional Golf Association assistant agronomist Jeff Haley.

"Some have been superior and some we're going to take one step at a time over the next three to five years until we get them in excellent condition," said Haley. "One thing I can say this year is that all have had excellent putting surfaces."

The reason is that the Hogan Tour has emphasized greens in its rookie season.

"We're going to try to target one area of the courses every year," said Haley. "This year we were looking for great greens. Next year it might be the fairways."

"We want to help these courses on an annual basis, not just for the week of the tournament. We plan to come back to these courses year after year after year."

To help meet this year's goal, PGA agronomists have encouraged superintendents to concentrate almost exclusively on their greens for the two weeks prior to a Hogan tournament. That means cutting the grass every day in order to get them up to PGA tour speed and gain consistency from green to green, Haley said.

"We don't expect any less of the Hogan Tour courses than those on the regular PGA and Senior tours," said the PGA official. "We expect the same green speeds, fairways cut the same, roughs and bunkers to be in good shape."

Overall, Haley said he has been very impressed with the superintendents and their efforts, especially under occasionally trying conditions.

At Windance Golf & Country Club in Gulfport, Miss., it rained so hard that cart paths washed out and players had to be transported from tee to tee by truck, Haley said.

"They did yeoman's work. The pros wanted to quit. But the superintendent (Keith Smith) wouldn't let them," Haley said.

December's sub-zero temperatures sent some courses into dormancy, many for the first time.

"We caught some courses at the wrong time. It's difficult to maintain your course under those conditions, let alone hold a major tournament. But the superintendents did a great job," said the PGA official.

Because of the experience gained in this inaugural season, PGA agronomists are likely to visit individual courses less often next year, Haley said. This year's schedule has generally included visits one year, six weeks and one week (called Advance week) before the event.

"Inevitably people have saved major projects until Advance Week," said Haley. "We get people to the course that week and the last thing they want to see is bunkers

that need edging, drainage ditches that need filling, sod that needs replacing. It makes things so much easier if those things are done before we get there."

"The best advice I can offer is don't wait until the last minute to get your course in shape," agreed Lake City (Fla.) Country Club superintendent Carl Smith. "That's what I've heard from most of the other superintendents and what I've been telling those who have called asking me questions."

Smith began preparing his facil-

**'The best advice I can offer is don't wait until the last minute to get your course in shape.'**

**— Carl Smith  
Lake City CC**

ity last August for the March 30-April 1 Lake City Classic, the seventh stop on the developmental tour's 30-event schedule.

The major project was rebuild-

ing the course's 52 traps. All were dug out, some enlarged, others sodded around the edges and all filled with new sand.

Smith's crew also spent three months trimming hundreds of trees up to a height of eight feet to ensure golfers a clear swing at the ball.

Finally, two weeks before the tournament, Smith lowered the cut on his greens from their regular quarter-inch to 5/32-of-an-inch.

The result? Despite rains that suspended play midway through Friday's opening round, everything

went smoothly and the Hogan Tour is ready to return next year, Smith said.

"The Hogan people were very impressed with the improved condition of the course over the 11 months since they'd first visited," said Smith, who took over at Lake City last summer. "They were unsure, at first, whether they'd be able to stage the event here. The course was in pretty bad shape. That's one of the reasons they brought me in here. One of the nice things about having a contract al-

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# 1st-year tour's courses handle new obstacles

ready signed for next year is that I can start preparing now."

Smith said a few members grumbled about giving up their course for a week. "But by Monday's qualifying round, everyone was caught up in the excitement. They all seem happy it's coming back next year," he said.

Members of North Shore Country Club in Portland, Texas, were similarly supportive when their course hosted the South Texas Open on March 2-4, according to superintendent Tom Dechant.

"Our members really enjoyed

it," said Dechant. "We got good participation from many of them."

Dechant said he tries to keep his course tournament-ready all year. But with the south Texas coast still recovering from winter's chill, Dechant began a heavy fertilizing campaign to green up his bermudagrass in early January.

"We did a lot of top dressing to smooth out the greens and got the groomer rolls out twice a week beginning four or five weeks before the tournament," said Dechant.

Dechant said he went through

**'Those guys will appreciate the little things we do to get the course in peak condition, things the members might not notice.'**

**— Ken Flisek  
The Woodlands**

large amounts of wire, stakes and paint once the Hogan and PGA officials arrived.

"They wanted all the par 3 tees

covered with chicken wire during the practice round so they wouldn't get chewed up," he remembered. "That seemed too much of an expense. So we used some wire we had left over from building the cart paths. But that was pretty hard to work with. We recommended that the tour officials begin carrying around their own wire. It's a pretty substantial expense for the club."

Dechant estimated he provided more than 200 stakes and "a lot of paint" to mark out the course.

The skies opened the day of the Pro-Am, dropping 3-1/2 inches of

rain on the course and canceling the Thursday event. But the regular tournament started as scheduled on Friday.

"We were here until 11 p.m. Thursday trying to pump the water out," Dechant said. "They were able to play the ball down the next day because of all the drainage work we've done the past four years. There's a lot of heavy clay soil here that just doesn't drain."

"The Hogan people seemed real happy. They understood the problems we had with the greens. They wrote us a nice note of thanks after they'd left."

The grass at The Country Club of Baton Rouge began emerging from dormancy just before the March 9-11 Baton Rouge Open. Superintendent Tolby Strahan mowed the fairways down to 7/16-of-an-inch three times before the tourney and the greens to 1/8-of-an-inch.

That's about the norm at the Jack Nicklaus course, which boasts a fairly young membership of talented players who demand the course be kept in tournament shape all year long, according to Strahan.

In fact, the only problem was cleaning up the 40 inches of rain that fell on the course from November through January. It rained again the first day of the tournament, holding up play for a brief time.

"But we have USGA (United States Golf Association) spec greens. They just soaked that up like a sponge," said Strahan.

The members didn't mind giving up the course, especially since heavy play doesn't begin until April, said Strahan. Many volunteered during the tournament, although Strahan said more would have been welcomed.

"You can always use more," he said.

The Tour began edging north in May and will reach its highest latitude July 13-15 at the New England Classic at The Woodlands Club in Falmouth, Maine.

"That's something for us to guide our season towards," said superintendent Ken Flisek. "Those guys will appreciate the little things we do to get the course in peak condition, things the members might not notice."

Flisek plans on cutting his Penn Links greens to 9/64-of-an-inch to get a 9 on the Stimp meter. The fairways will be at 1/2-inch and the roughs around three inches.

"We want the roughs long enough to keep the ball out of the woods," said Flisek, who enlarged his crew this spring to clear the trees and brush felled last winter along the 2-year-old course.

Members have found the relatively new facility very tough, so little needs to be done to increase the challenge for the pros, said Flisek.

"We want to give them a chance to make some birdies. We're looking for someone to break the course record (69)," he said.

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# GOLF COURSE NEWS

## Exclusive surveys of Golf Course News

## Fungi fight an annual battle on golf courses

BY MARK LESLIE

Chronic turf diseases during peak playing time and on golf courses' most critical playing areas — the greens — are the plague of superintendents. Among the most bothersome are pythium blight and summer patch, two fungi that attack in July and August in much of the United States.

"Pythium blight and summer patch occur anywhere it's hot, humid and wet," said Stan Zontek of the United States Golf Association Green Section's Pennsylvania office. "They're a problem, for sure, east of the Mississippi River. Summer patch is a problem where poa annua greens are grown

— the Mason-Dixon line north, extending to the Mississippi River and even west, and in the Pacific Northwest and California. The further north you go, the worse they get.

"There is no poa annua in the Carolinas but we do see pythium in the Carolinas... Pythium hits tees, greens and fairways."

To keep club members and other golfers at bay, superintendents must annually combat these nemises by spraying their turf with fungicides. And developing new fungicides has become a major research adventure for several major companies.

That is especially true, Zontek said, because summer patch and pythium blight

## Fungicides formulated to combat pythium blight

Golf Course News surveyed the major manufacturers of fungicides, asking questions to help our readers interested in products formulated to fight pythium blight and summer patch. This table displays the results of the pythium blight survey. Results of the summer patch survey are on the opposite page.

We asked companies if they manufacture the fungicide or if they buy it from another

company and affix their own brand label on it. If a company buys the active ingredient and formulates the fungicide, we answered "manufacture." All the manufacturers also market their products, and there are distributors nationally.

These tables are in our centerspread so that readers can pull them from the newspaper and tack them onto a bulletin board.

Company	Manufacture or Market	Market Area	Pythium blight Fungicide	Active Ingredient	Formulation	Contact or Systemic	Cost per 1000 Sq.Ft.	States NOT Registered in
<b>CIBA-Geigy Corp.</b> PO Box 18300 Greensboro, NC 27419 Owen Towne 919-292-7100 Circle No 201	Manufacture	Nat'l	Subdue	Metalaxyl	Liquid	Systemic	N/A	None
<b>W.A. Cleary Chemical</b> 1049 Somerset St. Somerset, NJ 08873 Michael Kolb 201-247-8000 Circle No 202	Manufacture	USA	Caddy	Cadmium chloride	Liquid	Contact	.73-.75	CA,CT,WI
<b>Grace-Sierra</b> 1001 Yosemite Dr. Milipitas, CA 95035 Mark Broxon 800-492-8255 Circle No 203	Market	USA	Koban	Etridiazole	Powder granular	Contact	4.00-5.00	None
<b>Hendrix &amp; Dail</b> 803 Industrial Blvd. Greenville, NC 27835 Carroll McLawhorn 919-758-4263 Circle No 204	Market	USA	H-D BI-O-CIDE	Formaldehyde	Liquid	Contact	10.00	N/A
<b>Kincaid Enterprises</b> PO Box 549 Nitro, WV 25143 Jim Ratcliff 304-755-3377 Circle No 205	Manufacture	Int'l	Terraneb SP	Chloroneb	Wettable powder	Systemic	2.70	CA
<b>Nor-Am Chemical Co.</b> 3509 Silverside Road Wilmington, DE 19803 George Raymond 302-575-2030 Circle No 206	Manufacture	USA	Banol	Propamocarb	Liquid	Systemic	2.65	CA
<b>Rhone-Poulenc</b> PO Box 12014 Triangle Park, NC 27709 Irwin Fishkin 919-549-2314 Circle No 207	Manufacture	Int'l	Chipco Aliette	Aluminum tris	Powder	Systemic	3.50	None
<b>O.M. Scott &amp; Sons</b> 14111 Scottslawn Road Marysville, OH 43041 Susie Calhoun 513-644-0011 Circle No 208	Manufacture	Int'l	Pythium Control Fungicide V Fluid Fungicide II	Metalaxyl Chloroneb Triadimefon Metalaxyl	Granular Granular Granular	Systemic Both Both	2.93 5.36 2.63	None CA None
<b>Seacoast Laboratories</b> Old Georges Rd. Dayton, NJ 08810 John Moynihan 800-522-4769 Circle No 209	Manufacture	N'east	Granular Chloroneb	Chloroneb (Tersan SP)	Granular	Contact	3.58	Outside N'east

have been found to build up a resistance to fungicides when those fungicides are used exclusively.

"Any common-sense (treatment) program will alternate fungicides," said Zontek, who Green Section National Director Jim Snow called the USGA's foremost expert on fungicides.

"Pythium blight is known to resist certain fungicides. So it is common sense to alter-

nate, certainly after every second spray."

Fungicides are either "contact" — meaning they work on contact with the disease— or "systemic" — meaning they enter into the plant itself and fight the disease from within.

Contact fungicides, Zontek said, directly contact the fungicide and flat cold kill it.

"Using systemic is like going to the doctor and he gives you a shot. It doesn't stop it

immediately but it lasts longer," he said.

"Contact fungicides are better as a curative, whereas systemics should be sprayed on to protect the turf before you see the disease. If you see the disease occurring, you've lost grass."

Zontek suggested applying a systemic fungicide in late June, before the disease hits. Then, if a "breakthrough" of the disease occurs, "hit it with contact."

Add to that Zontek's critical recommendation: "Avoid resistance. Alternate materials."

Superintendents can effectively fight these two fungi using intelligent programs of moderation, combatting them with chemicals and integrated pest management techniques, Zontek said, adding, "But we still need to encourage manufacturers to come up with new materials."

## Fungicides formulated to combat summer patch

Company	Manufacture or Market	Market Area	Summer Patch Fungicide	Active Ingredient	Formulation	Contact or Systemic	Cost per 1000 Sq.Ft.	States not registered in
<b>CIBA-Geigy Corp.</b> PO Box 18300 Greensboro, NC 27419 Owen Towne 919-292-7100 Circle No 210	Manufacture	Nat'l	Banner	Propicanazole	Liquid	Systemic	N/A	CA
<b>W.A. Cleary Chemical</b> 1049 Somerset St. Somerset, NJ 08873 Michael Kolb 201-247-8000 Circle No 211	Manufacture	USA	3336	Thiophanate Methyl	Powder & Liquid	Systemic	\$1.20-1.25 per ounce	CA
<b>DowElanco</b> 4040 Vincennes Circle Indianapolis, IN 46268 Roger Foulks 317-276-2299 Circle No 212	Manufacture	Int'l	Rubigan	Fenarinol	Liquid	Systemic	3.44-6.88	None
<b>DuPont Company</b> PO Box 80038 Wilmington, DE 19880 Clyde Roberts 302-992-6173 Circle No 213	Manufacture	Int'l	Tersan 1991	Benomyl	Granular	Systemic	N/A	None
<b>Grace-Sierra</b> 1001 Yosemite Dr. Milpitas, CA 95035 Mark Broxon 800-492-8255 Circle No 214	Market	USA	FunGo	Thiophanate Methyl	Liquid & Powder	Systemic	2.00	None
<b>Howard Johnson's Ent.</b> 161 W. Wisconsin Ave. Milwaukee, WI 53203 Michael Stephens 414-276-4656 Circle No 215	Market	Midwest, N'east	Bayleton	Triadimefon	Granule	Both	3.00-6.00	None
<b>Lebanon Chemical Co.</b> 1600 E. Cumberland St. Lebanon, PA 17042 Paul Grosh 800-233-0628 Circle No 216	Manufacture	USA	Lebanon Turf Fungicide	Bayleton	Granular	Systemic	2.30-4.60	None
<b>Lesco, Inc.</b> 20005 Lake Road Rocky River, OH 44116 Mark Beliczky 216-333-9250 Circle No 217	Market	USA	Benomyl DG	Benomyl	Granular	Systemic	5.00	N/A
<b>Mobay Corp.</b> 8400 Hawthorn Road Kansas City, MO 64120 Allen Haws 816-242-2000 Circle No 218	Manufacture	USA	Bayleton	Triadimefon	Granular	Both	3.00-6.00	None
<b>Regal Chemical Co.</b> P.O. Box 900 Alpharetta, GA 30239 Will King 404-475-4837 Circle No 219	Manufacture	USA	SysTec 1998	Thiophanate Methyl	Liquid	Systemic	1.10	CA
<b>Rohm &amp; Haas Co.</b> Independence Mall West Philadelphia, PA 19105 David Sutton 215-592-2983 Circle No 220	Manufacture	Int'l	Systhane	Myclobutanil	Powder	Systemic	N.A	All (pending EPA reg.)
<b>O.M. Scott &amp; Sons</b> 14111 Scottslawn Road Marysville, OH 43041 Susie Calhoun 513-644-0011 Circle No 221	Manufacture	Int'l	Fertilizer Plus Fungicide VIII	Thiophanate Methyl Iprodione	Granular	Both	3.13	None

# Spraying measures can quiet concerns

BY R. BARRY ROGERS

Every year, more limitations are placed on pesticide usage and application by legislators reacting to the fears of a concerned public. The question is not whether the fears are justifiable; they exist and must be dealt with.

As an Oregon politician said, "Perception is political reality," and, as every lawyer knows, it can also be a legal reality. It is essential that steps be taken to make pesticide usage more environmentally friendly.

The concerned public is deluged with information on the toxicity of pesticides and fertilizers. LD50 numbers are quoted and, though

they mean very little to most people, they initiate an underlying fear that pesticides and chemicals are extremely dangerous and must be avoided.

Yet when pesticides are compared to foods and their natural contaminants, they are not the most toxic substances we ingest.

An open-boom sprayer, with a trail of drift floating behind it, initiates these fears in the minds of the public. They see toxic pesticide in the air they breathe.

Drift creates fear, similar to dogs' teeth. When a dog bares its teeth it creates fear, whereas with its mouth closed it is considered friendly.

Pesticide application needs a safer, more friendly image.

When the public sees spray, they assume that it is a pesticide, that toxic stuff on television, especially when the driver is wearing what looks like a World War II gas mask they associate with chemical warfare.

This brings human death to mind, not the necessary elimination of weeds or bugs to make a quality golf course.

When they see a sprayer on the course they wonder why they are being exposed to a similar danger. Soon the operator finds himself before a government board, being told to resolve the problem.

Caught in the middle, he has little

room to maneuver. If he reduces the pesticide or fertilizer usage, he will soon be before the course's board, because the course is not up to standard.

Biological control methods, still in their infancy, need to be developed more before they can replace chemicals.

The superintendent's only choices are the means of application. The first is to apply pesticide and fertilizer in the irrigation system, which will work for most fertilizers but few pesticides.

Secondly, he can spray in the very early morning while it is still dark and no one is on the course.

This approach works for some, but not the courses with homes bordering them. There, noise and lights result in complaints.

Spraying early also raises labor costs and risks, plus heavy dews add to the drying time, thereby increasing the time for re-entry.

### Shrouded sprayer

The advent of the shrouded sprayer gives the superintendent a new tool to work with.

A shroud placed over the spray boom encloses the spray inside, containing drift and increasing safety. A curtain seals the shroud to the turf surface, stopping the wind from blowing underneath and picking up drift.

This results in positive drift control that significantly increases safety and protects the operator, public and environment from pesticide exposure.

Contained beneath the shroud, the spray does not initiate fear in the minds of people nearby. There is no trail or drift to excite or alarm them.

Shrouded booms are not new. In 1950 the British Institute of Agricultural Engineering tested a simple shrouded sprayer and found that drift from it approached that from an open boom in winds of around 12 mph.

Recent research in a wind tunnel identified a low-pressure area behind a simple shroud.

This low-pressure zone creates an eddy that lifts up drops from the sprayed area and flips them into an air stream racing over the top of the shroud.

A similar eddy lifts dust behind a station wagon.

To eliminate the drift-causing eddy, an airfoil was installed on top of the shroud to redirect the air stream racing over the top into the low-pressure area.

Subsequent drift studies with shroud/airfoil sprayers have shown that off-target spray deposits were kept to less than 0.5 percent even as the wind speed was increased.

The drift control of the shroud/airfoil/curtain combination make it practical to spray in the wind, thereby reducing the uncertainty of day-to-day management on the course while increasing safety.

### Timely application

Timely application will also increase pesticide reliability.

Studies in agriculture with mist-sized drops and ultra low carrier volumes indicate that carrier volumes can be reduced to as low as 2 gal/ac with most herbicides, as long as drop size is reduced to maintain coverage.

Ultra low-volume application increases most pesticides' reliability, plus without the wind limitation it can be applied at the optimum time.

Research is required to transfer this information to turf. Low carrier volumes reduce the cost of application and resulting compaction from heavy sprayers while being environmentally friendly.

This provides financial motivation for environmental protection.

But do not forget the World War II-looking gas mask.

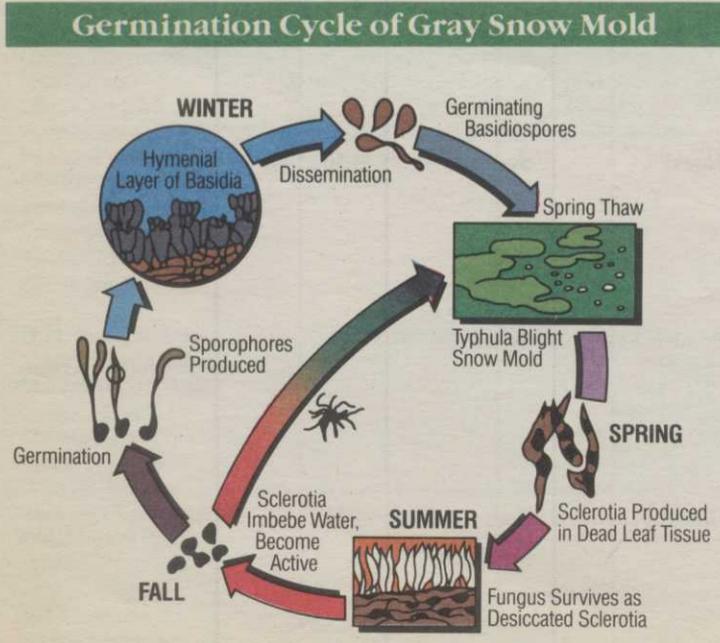
Several companies market safety  
*Continued on page 23*

**1 GRAY SNOW MOLD**  
Also known as Typhula Blight, Gray Snow Mold attacks most northern turfgrasses. The disease usually develops under a snow cover and is seen as the snow melts. Fungus development is favored by high soil moisture and temperatures between 32 and 40 F. Usually visible at the first spring thaw, it appears as circular dead areas up to 6 inches in diameter, but can grow to 2 feet or more and eventually kill large irregular areas of turf. Typhula Blight not only attacks foliage, but infects deep into the crown area, completely destroying the plant.

**2 PYTHIUM**  
Pythium attacks all cool season turfgrasses and Bermudagrass, especially grass seedlings, which will die (damping off), resulting in irregular dead patches in the turf. Normally, it is a high temperature, high humidity and wet weather disease. Mower movement will spread fungus from diseased areas to healthy areas, thereby quickly spreading the disease. Late stages of pythium can spread very quickly and can kill large, irregular sections of turf in 24 to 48 hours.

**3 BROWN PATCH**  
The most common turf disease, Brown Patch, can destroy a stand of bent-grass within a few days. Prevalent during extended periods of high temperature and humidity, the disease is also encouraged by poorly drained soil, lack of air circulation and excessive nitrogen. At first it appears as a circular area of light brown grass, ranging from a few inches to several feet long. The circular areas grow and turn brown.

**4 SCLEROTIUM BLIGHT**  
Also called Southern Blight, Sclerotium Blight attacks annual bluegrass, Kentucky bluegrass, ryegrass and bent-grass in all sections of the country. The fungus begins to spread from the soil and surrounding debris to the grass during hot, humid weather. In its early stages, the disease looks like a frog-eye, having small, circular dead areas with tufts or apparently non-diseased grass. The circles may grow up to three feet in diameter.



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# Spraying

Continued from page 22

helmets that resemble motorcycle helmets. The helmets blow filtered air over the head and face of the operator.

They are much more comfortable to wear, plus they eliminate the skin/mask interface where pesticides can be trapped and absorbed into the operator's skin.

Perception is also reduced because the helmet appears to be a driving-related safety device and is not perceived as a threat.

A tractor or truck cab pressurized with filtered air will also create less anxiety, as well as improve operator protection and comfort.

Next, the applicator must dress his people in either blue, green or brown. Other colors — especially white, yellow and red — connote danger.

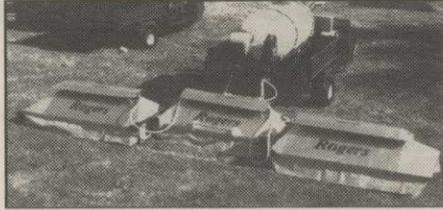
Finally, excess noise and odor also raise public anxiety. Everything possible should be done to eliminate the anxiety initiators.

Kapalua Golf Course in Hawaii uses 15- and 20-foot shrouded boom sprayers.

It is located on the windy north shore of Maui. Superintendent Short Honma needed to remove the wind limitation.

Honma said, "The (sprayers) have increased operational efficiency and reduced jogger and residential complaints."

Being able to spray in the wind lets Honma schedule spraying at the most optimum time, plus he reduced water use from 100 gallons/acre to 25 gallons/acre, which means less filling, less compaction and more time spraying. He also found he could get equal control with half as much of some pesticides, thus reducing



A type of shrouded boom.

the environmental impact.

To mitigate the pesticide issue it is not enough to simply apply pesticides safely and comply with regulations.

There are two components to this issue: safety and the public's perception of that safety.

For the most part, it is the public's perception that is initiating demands for added regulations. Most organizations abide by the regulations.

Public perception must be considered in everything that is done on the course to ensure that it does not create fear.

Drift, noise, odor, and gas masks initiate public anxiety and contribute to the perception of danger just like dogs' teeth.

Application and usage of pesticides must be shown as positive, with emphasis on improvement of course quality and the environment.

Follow all the safety regulations and only use pesticides when they are required to maintain course quality.

If spraying is undertaken, the superintendent should tell club members why and that it is in their interest.

R. Barry Rogers, MSc., PEng., is the president of Rogers Engineering Inc. of Saskatoon, Sask.

## Survey: 97% of courses have licensed applicators

A nationwide survey of golf courses employing members of the Golf Course Superintendents Association of America shows that 97 percent have at least one licensed pesticide applicator.

Conducting the survey to gauge compliance with federal and state regulations, the GCSAA said the results "provide strong evidence of our members' commitment to safety and sound ecological practices."

Government relations manager Tom Akins said: "GCSAA strongly supports the position that only properly trained and educated personnel should be allowed to purchase and apply any restricted-use chemicals. Even though most golf courses don't apply any restricted-use materials, we are pleased that the survey shows that an overwhelming majority of our membership has taken this extra step."

Of the 1,157 superintendents who responded to the survey, 1,061, or about 92 percent, are licensed pesticide applicators. Another five percent who are not licensed themselves have a licensed person on their staff.

The Federal Insecticide, Fungicide and Rodenticide Act mandates certification for pesticide application. Each state must implement its own certification guidelines and programs, which must comply with FIFRA.

"The importance of training and certification to individual communities really ties in to the concept of 'Think globally — act locally,' " Akins said. "The survey showed that individual superintendents take seriously their commitment to the environment and are working hard in communities throughout the United States to make sure that their operations are as safe as possible."

## Hale Irwin Golf Services doubles space

Hale Irwin Golf Services, Inc., an international golf course design, development and management company, doubled its headquarters size (to 3,000 square feet) in a move to Manchester/270 Office Center (Building I) in St. Louis, Mo. The new offices overlook the atrium lobby of the luxury office building by Kelley Properties, Inc.

The firm's new address is 12444 Powerscourt Drive, Suite 284. Its phone number is 965-8787.

Founded in 1986 by Irwin, a PGA Tour professional and golf course designer, the company designs private, resort and public courses as well as golf communities worldwide. It also provides management and operational support to existing golf courses.

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# ASSOCIATION NEWS

## Illinois Turfgrass Foundation plans fund-raisers for research projects

The Illinois Turfgrass Foundation's board of directors is planning activities for 1990 that include several "Golf Days" to generate funds for research.

In recent years the foundation has contributed an average 20 percent of gross income in direct support to university programs, and the new budget calls for at least 22 percent of income directed to new and

ongoing research projects.

The foundation is led by President Michael D. Vogt, Vice President Kerry G. Anderson and Secretary-treasurer Robert W. Graunke.

John M. Turner is immediate past president and directors are Phillip H. Hall, Conrad J. Stynchula, Jim Ashby, Warren Shafer, Robert J. Dore and David Ward.

## McMullen plans mechanics school for Michigan

Fritz McMullen, of Forest Lake Country Club in Bloomfield Hills, was chosen by Michigan Turfgrass Foundation board members to lead the foundation into the 1990s.

Meeting during the recent Michigan Turfgrass Conference, the board unanimously elected McMullen as its new president. He succeeds Kurt Thuemmel.

McMullen's initial priorities as president include establishing a golf course mechanics school at MSU and appointing an environmental turfgrass specialist.

Serving with McMullen will be Jim Bogart of Turfgrass, Inc., who was elected vice president for 1990. Re-elected by board members were Gordon LaFontaine from Lawn Equip-

ment Co., executive secretary; Kurt Kraly of Wilkie Turf, recording secretary; and Jeff Gorney of J. John Gorney, Inc., treasurer. In addition, Dave Longfield of Garland Golf Club was appointed to assist the treasurer.

McMullen's election followed the annual Michigan Turfgrass Foundation meeting during which the foundation membership re-elected all four incumbent board members.

Dave Longfield will serve a second term representing the Northern Michigan Turf Managers Association, while Tim Doppel continues as lawn-care representative. Also re-elected were Ron Juip of the Sod Grower's Association of Michigan and Kurt Kraly as an at-large board member.

## Midwest supers give to Musser

The Midwest Association of Golf Course Superintendents became the first chapter in the country to donate money to the Musser International Turfgrass Foundation of Sharon Center, Ohio.

Presenting a \$1,000 check at the GCSAA International Golf Course Conference and Show, MAGCS President Bruce Williams, of Bob O'Link Golf Club in Highland Park, Ill., said, "We hope that other chapters will consider supporting the work of doctoral candidates in

turfgrass science."

Musser Foundation President Frank Dobie echoed Williams' hopes that other superintendents associations would follow suit.

Melodee Kemp, a doctoral candidate at Rutgers University and one of three Musser scholarship recipients for 1990, said:

"All of us associated with the turfgrass industry are fortunate to have an organization like the Musser Foundation supporting turfgrass education.

## HAGCSA calls for research support

The Heart of America Golf Course Superintendents Association has put out a call to all sectors of the golf industry to join it in supporting scholarship and research.

HAGCSA is seeking donations so that it can continue to grant scholarships as well as support turfgrass research at Kansas State University and the University of Missouri Columbia.

The association held its annual scholarship and research tournament on June 4 and will donate the proceeds to Kansas State and UMC for turfgrass science and research programs, as well as to the Golf Course Superintendents Association of America Scholarship and Research Fund and the USGA/GCSAA Committee for Environmental Research.

People may contact Duane Patton at Lawrence (Kansas) Country Club.

## ASTA conclave set

The American Seed Trade Association's 107th annual meeting June 25-29 in Orlando, Fla., will feature a variety of educational programs as well as many family activities, according to President Jerry Peterson.

All of the ASTA divisions and most committees will meet during the convention to deliberate on the progress and problems facing the association and to chart the course of its activities for the coming year. The convention will be held at the Hyatt Regency Grand Cypress Hotel and Resort.

More information is available from ASTA Assistant to the Executive Vice President Robert J. Falasca at the ASTA, 1030 15th St., N.W., Suite 964, Washington, D.C.

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# No cloak and dagger, says CMAA head

BY MARK LESLIE

The misconception that private clubs are "clandestine operations" must be clarified to the general public and in legislative chambers, according to the new executive vice president of the Club Managers Association of America.

"For some reason, legislators in particular tend to focus on the private club as negative instead of positive," said James B. Singerling, adding that the challenge for the CMAA is to educate legislators and the public about the "positives" of clubs.

Singerling, who on May 1 succeeded James A. Schuping at CMAA, said: "For club managers, the challenge ahead is to ensure that the proper information on clubs and what they actually are, is disseminated. Mainly, instead of a club being perceived as some clandestine negative private entity, we must highlight the positive parts the clubs play in a community."

He said those include:

- Taxes and payroll.
- Most private clubs draw considerable money from outside the community and that money stays in the community.
- Job security is higher in clubs than any other part of the hospitality industry because there are no seasonal layoffs ... since clubs have dues income to supplement them during the off-season.

• The number of local vendors supported by the clubs, from produce, meat and flower companies to linen services, plumbers, electricians, and many others.

"All money is brought in by members, not the general public. Yet members also tend to be the people who support other restaurants because they are the ones who tend to dine out more often," Singerling said.

## U.S. clubs now 'benchmark' for world, Singerling says

James B. Singerling, the new executive vice president of the Club Managers Association of America, said American clubs are now viewed as "the benchmark" of operation around the world.

Singerling said European clubs are now seeking American expertise.

"We see a tremendous reversal now of tradition. Golf clubs and golf courses over the years have thrived on tradition here in the United States, pulling from Scotland. We now see a wonderful trend that golf has taken off in Europe itself — particularly Spain and France — and they were crying for me (while working with Robert Trent Jones Sr.) to spend time with their managers.

"We are getting those same requests right here with the CMAA — requests to share how American clubs are run. We've always

## Development director named

James E. Petzing, chairman for the Club Management Institute Foundation, has announced the appointment of Susan McCaslin as director of development.

McCaslin is a graduate of George Mason University, where she received a bachelor's degree in sociology and MPA in public administration.

Prior to this appointment, McCaslin served as assistant director of development for the Women's Center of Northern Virginia. She brings with her experience in development, formulation and writing of proposals; researching foundations and prospective corporate and individual donors and analyzing and preparing organizational budgets. In her previous position she developed strategic goals and policies that raised \$170,000 in funding and increased



CMAA President Kenneth Brown, left, welcomes aboard James Singerling.

Singerling's knowledge of the industry is first-hand. Before joining CMAA, he was vice president and general manager of Coral Ridge Country Club in Fort Lauderdale, Fla., and a corporate official in the Robert Trent Jones Sr. golf course design, construction and management companies.

He was responsible for administering and coordinating all international operations and reorganizing Jones' European offices.

The major danger ahead, Singerling said, is that "many legislators have accepted the perception of cloak and dagger stuff" regarding private clubs. "This misconception has overshadowed the tremendous value of clubs."

Singerling said the CMAA, National Restau-

rant Association, Professional Golfers Association and National Club Association are working together "to show this misconception for what it is."

"I think the revolution of the 1960s and '70s created some feelings that anything traditional and American had to be attacked and challenged, from the flower-child approach to rebellion and revolution. If it had been around for a long time, you had to challenge and change it," Singerling said. "And now ... the yuppies are standing in line to join private country clubs. They, in fact, have changed their perceptions

of clubs as a whole, seeing that there are all-women's clubs, there are all-Cuban clubs, and all-ethnic clubs as well as all-men's clubs. But there are also clubs, the vast majority, that do, in fact, have open membership for anyone who would like to enjoy the environment they create."

Singerling said legislators, in particular, "tend to focus on the private club as a negative instead of a positive. And it may be that this (positive) information just hasn't gotten to them."

"We at CMAA have tried to get across to these legislators that by closing a club they are putting 60 to 100 entry-level, hourly employees out on the street.

"I think they're creating a much bigger problem by attacking what is perceived as a problem. But there's no problem there to begin with," he said.

CMAA intends to continue providing its 4,000 members, including the 2,400 at golf and country clubs, with "adequate information so they can intelligently respond to media and legislative inquiries," Singerling said.

Personally, Singerling said the move to the CMAA post is "a very easy transition for me."

In addition to the challenge within the United States, he looks forward to continuing his work abroad.

"I did a lot of work overseas with Mr. (Robert Trent Sr.) Jones," he said, "and now I'm able to put the jewel in that crown by being able to run the association with the international contacts it has and its many members from Canada, the Caribbean, the Far East... I can continue that work as Mr. Jones winds up his career."

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# Floating green

*Continued from page 1*

An island green would be its signature.

Hagadone selected Scott Miller Design of Scottsdale, Ariz., as the course architect. Miller spent nearly a decade with Jack Nicklaus' design company and Coeur d'Alene is his first project under his own name. The island 14th green may make the first the most unforgettable.

Two ship anchors in the lake, and two permanent anchors on the shore will allow movement of the entire green by means of a cable and winch system. It will be spotted from 75 to 175 yards from the shoreside tee.

No causeway connects it to the mainland. Instead, a launch will take golfers to the green.

The 14th green was engineered by Gloften Associates of Seattle, a naval architecture-engineering firm, according to John Marlow, administrative vice president of the Hagadone Corp.

It was built to conform to Miller's grading plan and green size, which will measure roughly 140 by 110 feet. Some 15,000 square feet in area, it will have a putting surface of 7,000 square feet tucked into berms, feature thousands of red geraniums, trees and sandtraps.

No lightweight, No. 14 will weigh in at 4.5 million pounds. It is comprised of hollow concrete cells, most of which are 10 by 30 feet, some 10 by 20 feet and near the perimeter, a few 10 by 10's.

"It's like putting Lego pieces together," said Marlow.

Prefabricated steel sections will be attached to the outer cells and faced with treated wood, which will create the final curves and match the wood facings at the mainland lakeside holes.

With a draft of five feet, the green will be stable on and in the water, regardless of wind and waves. There will be constant attention on the mooring system, which Marlow likened to pulling a large can of air under water, with the air being in the hollow concrete cells beneath the USGA-spec green.

While the 14th hole is the most unique, others on the course could qualify as "signature holes."

Thirteen is reminiscent of the finishing hole at Pebble Beach. The lake parallels the fairway and the first and second shots must each carry an inlet.

Entirely different in character is the sixth, a par 3 with tees stair-stepping down a flowered, woody hill and with a green framed by pine trees, lake and mountains.

The course will play 6,518 yards from the pro tees and 4,532 from the front tees. Between are two intermediate tees. Miller has seen to it that from each tee to green, the same club selection could be used, based on the golfer's ability. The front tees are not afterthought ladies' tees.

Miller is an admirer of yesteryear's architects — Donald Ross, Alister Mackenzie and A.W. Tillinghast.

He favors strategic, not punitive, layouts. His bunkers are designed so that there will be little chance the golfer will have a downhill lie in the sand.

Miller describes each green as having a series of "rooms," with individual characteristics that blend into the whole. Subtle contours of mounding and berming articulate Miller's belief that the golfer should be taken to the hole, not repelled en route.

It is a course, he says, that the golfer will have to think his way around.

The old lumber mill had for

**'It's (building island green) like putting Lego pieces together.'**

**— John Marlow, vp  
Hagadone Corp.**

decades dumped mill waste—bark and chips — into the lake. Cleaning the mess became a major project when, after excavating down to 30 feet along the shore, there was no end in sight to the waste.

A system was designed wherein a plastic membrane was placed into the water above the waste. It serves

the dual purpose of trapping and rerouting the methane gas from the rotting wood below, and recirculating the percolated water from the fill dirt above to a seven-acre leach field inland.

Another environmental concern was a creek that borders the 11th fairway. A prime trout-spawning

stream, it is now protected by slopes and berms designed to preclude any runoff into it.

Wherever there is water, sumps and pipes were installed to carry the irrigation and rain water inland. Around the course are ground-water monitoring stations.

Greens are Penncross bentgrass and fairways are Penneagle bentgrass.

According to superintendent Steve Maas, the greens will be mowed with walk-behind mowers. His crew of 22 will work out of a new 9,600-square-foot maintenance building.

*Continued on page 27*

# BENTGRASS

**Chester Manni**  
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**Armen Suny**  
Castle Pines Golf Club  
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**David Fleming**  
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# Graduates

Continued from page 1  
reported eight to nine job offers for each of his 15 turf management graduates.

And so it goes.  
With the recent golf boom, it's a buyer's job market for graduates of the country's better-known turf management programs. Students are frequently leaving their schools with a handful of assistant superintendent and, in some cases, head superintendent job offers.

"From everything we've heard, the job market is very good for turf management students," said Colleen Pederson, director of education for the Golf Course Superintendents Association of America.

"We could use more students," said Kurtz, a member of Cal Poly's Horticultural De-

partment which fell from 400 students in the mid-1970s to 160 this year. "High schools don't give students very good direction. They don't know about openings in a field like golf course superintendent."

With so many jobs to choose from, what sways a recent graduate to choose one course over another?

Money? Most assistants start in the \$18,000 to \$28,000 range agree educators. Duich has seen offers of more than \$38,000. But money, at least for those first entering the field, "isn't as important as you might think," said Rogers.

Benefits? Many courses are offering improved insurance, retirement, vacation, clothing allowance and continuing education programs. Such perks are increasingly important, but rarely the deal maker when recruiting an assistant superintendent, said Menn.

## Coeur d'Alene

Continued from page 26  
nance building. Outside, a state-of-the-art computer-controlled weather station will monitor and deliver irrigation throughout the course's 120 acres.

"Fence to fence," Miller beams, "it's going to be like a park."

Native vegetation has been retained wherever possible, supplemented by plantings of ground cover junipers on the hillsides and deciduous azaleas.

With lake views from most of the tees, even visual pollution has not been overlooked. Rest rooms are located in underground bunkers.

Some of the fairways are wide open. Some are level, some up and down hills. There are woodland holes and "maritime" holes.

This mix makes the course a delight, both to play and to walk upon and soak up the views.

Miller and Hagadone's Coeur d'Alene makes a statement that a course can be designed for golfers of every handicap. The floating green, unique in all the world, will be its exclamation point.

*Bob Spiwak is a freelance writer based in Winthrop, Wash.*

Location? While most hope to return to their native areas, recent grads realize "assistant superintendent" is generally a transient position. They are often willing to spend two or three years as an assistant in a strange area if it helps them eventually land a head job near their home.

The course? Experience at an Oakmont, Augusta, Pine Valley or the like looks impressive on a resume. But it's rarely the deciding factor.

So just what lures a recruit from campus to fairway?

"What really attracts a student," explained Rogers, "is the superintendent he'll be working for. His reputation. He (recent graduate) wants this first job to be a spring board to a head superintendent's job in two or three years."

"A good superintendent will say 'I want you here now. But I want you out of here in two years.' The best superintendents I work with are calling me every couple of years looking for a new assistant."

"The person they'll work for is very, very important," agreed Duich. "A good superintendent will give his assistant supervisory experience and get him involved in the decision-making process."

Many turf management students will already have some practical golf course experience, probably as a laborer. In fact, it's required for admission into the Penn State and Michigan State programs.

"As a rule, we require at least three years of experience," said Duich of Penn State's associates program. "Some students have five or 10 years. So we have a lot of older students. We rarely get an 18-year-old."

"We also have many returning students. We've had people with chemistry, math, psychology and many other degrees. At some time they worked on a golf course and decided to get back into it rather than spend their lives doing what they'd originally studied to do."

Two-year programs tend to be the most popular at schools offering two- and four-year options. At Michigan, the associates program has about 70 applicants for 40 slots, said Rogers. Getting back into the job market quickly is important for those who al-

**Many courses are offering improved insurance, retirement, vacation, clothing allowance and continuing education programs. But such perks are rarely the deal maker when recruiting an assistant superintendent**

ready have degrees and possibly families.

"The older, returning student is often married and has a lot of desire. And success, I've found, is about 90 percent desire," said Rogers.

"We haven't found much of a difference in the quality of two- and four-year students. Once you're out there, you're judged on how you do your job, not the degree you have."

Texas A&M has a bachelor's program, leaving two-year degrees to the state's technical, junior and community colleges, said Menn.

"There are a lot of good two-year programs in the state. And we get some of the graduates of the two-year programs who want the broader base of a four-year degree," he said.

Texas A & M graduates tend to remain in Texas, with most eventually ending up at large-city courses. "But a lot look for assistant jobs in north Texas to get some bentgrass experience," Menn said.

Duich said Penn State has the hardest time filling job requests from courses in the northern New Jersey and Long Island areas. The cost of living and the lifestyle are a tough sell since most Penn State turf management students come from smaller towns, he said.

Rogers said the hardest requests for Michigan State to fill come from large cities like Chicago and Kansas City.

"Most of our students aren't from big cities. And let's face it, \$20,000 will go a lot farther in Grand Rapids than it will in Chicago," he said.

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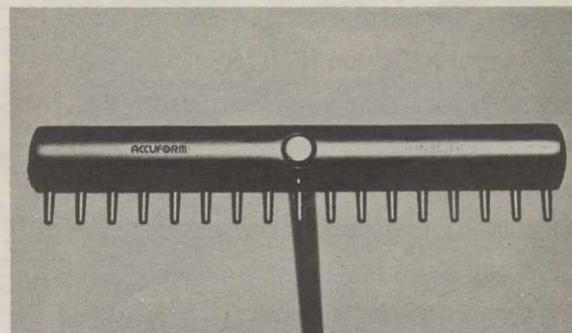
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# Flood

Continued from page 1  
also submerged.

In Texas, the Dallas-Fort Worth area bore the brunt of Mother Nature's torrents.

Running water washing out greens, bunkers and fairways was a major problem in both areas.

Removing silt deposits without severely scouring the grass was another. The residue at Dallas' Royal Oaks Country Club was removed with hoses or dragged off with rubber scrapers pulled behind tractors.

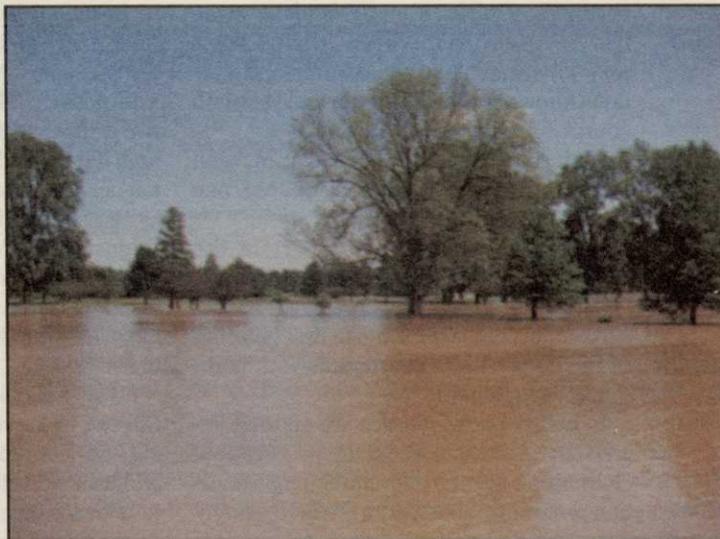
"Removing the silt has been the biggest job. We've had a crew of 28 working about 80 hours a week

since April 14," said superintendent Ken Small.

In Arkansas, Wade said: "I don't see how they could play on those courses before late next week (around May 20). It could be June before some of the holes are functioning again.

"The greater Little Rock area seemed to get hit the worst. What hurt us is all the rain they got in Oklahoma. There was a deluge there and it all washed down the Arkansas River to us."

Coupled with the December freeze that caused severe winter kill at courses throughout the state, Wade said this winter and



Flood waters cover the fairways at Rebsamen Park Municipal Golf Course in Little Rock, Ark.  
Photo by Tanga Dreher

spring have been "the most devastating time I can remember" for the Arkansas golf industry.

At Maumelle, head pro Jim Motl said there was little course superintendent Mike Schubert and his crew could do to stop the rising waters.

"We're right on the river bottom," Motl said, shortly after the waters started to recede. "The grass is still green. But there is water flowing over the 10th green and the bunker behind it. You can see there is going to be some damage there."

Rebsamen superintendent George Earls said this was the worst flooding he'd experienced since 1957 when the course lost a

half dozen greens and fairways.

"The only reason this wasn't as bad was because of the dams we have today," said Earls, now in his 35th year at Rebsamen.

"This was just a wild river back in 1957. We lost 10 to 15 acres a day back then and had to rebuild everything."

Despite the advances in river control technology, Rebsamen still suffered extensive damage. Earls, whose nearby house was also submerged, doesn't expect the course to be playable until sometime in June.

"We got hurt real bad. There was three to five feet of water on the course. It left a lot of sand, especially on the front nine, that

we'll have to remove. It seared some of the greens and fairways."

North Texas Golf Course Superintendents Association President Jim Anderson, superintendent at Witchita Falls Country Club, said, "You couldn't see the top of the flag sticks at some courses in Dallas."

Courses along the Trinity River and White Rock Creek were the worst hit, said North Texas GCSA Vice President Pat Jones, head superintendent at Dallas' Shady Oaks Country Club.

Among those he listed were L.B. Houston and Royal Oaks country clubs in Dallas, Rockwood Golf Club in Ft. Worth, Indian Creek Golf Club in Carrollton and Riverside GC in Arlington.

"It's been rather difficult," understated Royal Oaks' Ken Small. "Everything, except for one hole, was under water. Eleven of our 18 greens were completely under."

Five separate floods kept the course closed for four weeks, Small said.

Although the water never remained on the course more than 12 to 14 hours, it left behind as much as two to three inches of silt.

Royal Oaks has engaged an engineer to design a way to direct flood waters away from the course because of this year's high waters.

"We can't do anything to prevent flooding. So we're looking for ways to minimize its effects," Small said.

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### Fumigation firm expands

Francis & Francis Soil Fumigation Specialists of Lewisville, Texas, has expanded the region it services, winning license approval in New Mexico and Kansas.

President Fern Francis said the firm now also covers Texas and Oklahoma, and is applying for licenses in Colorado, Arizona and Missouri.

"We will expand as the demand dictates," said Francis, who opened the company just one year ago.

Her husband, David, has 10 years experience in fumigation, and was certified in Iowa before moving to the Dallas suburb.

Fern, whose background is in business, said she is studying to also become eligible for licensure.

### ASPA field days planned

The latest in sod farm equipment and technology will be featured in live demonstrations by U.S. and Canadian manufacturers at the Manderley Sod Farm in Kemptville, Ontario, Canada, during the American Sod Producers Association's 1990 Summer Convention & Field Days, July 25-27.

Other sod-related manufacturers will exhibit their newest products. The demonstrations and static displays will be shown on two half-days, July 26 and 27. Headquarters for the event is the Westin Hotel in Ottawa, Ontario.

Other activities at the convention include the annual business meeting and education assembly on July 25. Dr. Chris Hall, director of the Guelph Turfgrass Institute, will review GTI's 1989 research report, which features research into soil and nutrition; turfgrass seed production; turfgrass

management and renovation; weed control and growth regulation; turfgrass pathology; pesticide residues; evaluations of species and cultivars; and turfgrass extension.

"Turfgrass is going to become more and more important to our society as an interface to bring rural and urban sectors together," said Hall. "Grassed areas are valuable to cities for their aesthetic value, their cooling effect, their easy maintenance and the recreational surfaces they provide."

Also on the program, Annette Anderson, turf extension specialist with the Ontario Ministry of Agriculture and Food at the University of Guelph, will speak about the turf industry in Ontario.

For more details, contact the American Sod Producers Association, 1855A Hicks Road, Rolling Meadows, Ill. 60008; 708-705-9898.

### Mule correction

The March survey on utility vehicles incorrectly listed the price of the Kawasaki Mule 2010 as \$16,495. The actual price is \$6,495. The Mule 2020 should also have been included. It has a one-cylinder, four-stroke engine; four wheels; 15-mph maximum speed; 10-inch tire width; 13.5/14.8-foot turning radius; 112-inch vehicle length; 59.25-inch vehicle width; 1,089-pound vehicle weight; 46.3-by-51.6-inch cargo area; 800-pound payload; 1,000-pound towing capacity; and 6.69-inch ground clearance.

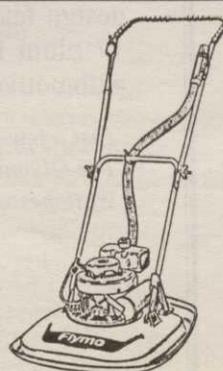


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# New equity structure improves cash flow

BY KENNETH HART and  
BERNARD BAKER III

In light of President Bush's desire to reduce the capital gains tax, a Florida law firm has come up with a new structure for equity club developers that is designed to improve cash flow, give more control of profits and possibly reduce taxes by 30 percent.

Some background might first prove helpful.

In the early days, developers formed the equity club by entering an "agreement to turnover" the assets to members. More aggressive developers granted the club an "option" to buy the property for a price equal to its membership sales.

The option deal permitted the developer to defer paying tax on his gain until the "option" was exercised. Options and turnover agreements were often treated as installment sales, so the developer didn't have to pay tax until he actually received cash.

But the Revenue Act of 1987 repealed the beneficial installment treatment for most equity club transactions. Many developers then turned to the "§ 351 transaction" which allowed developers to sell memberships directly to members. That ensured that a developer wouldn't be subject to tax before he received cash. But it also presented some problems.

First, some cases concluded that the developer doesn't receive a basis in the memberships for the debt used to construct the clubhouse, golf course and other amenities. That had the effect of distorting his income from membership sales.

A developer's cash flow was also severely restricted because he could only use after-tax membership sales proceeds for debt service or construction costs.

Finally, there was no possibility of obtaining capital gains treatment for the developer with the § 351 structure.

The Leisure and Resorts Group at Gunster, Yoakley & Stewart, P.A. of West Palm Beach introduced their plan as an improvement on the § 351 transaction when Bush proposed his capital gains rate reduction last year.

The firm's goal was to form equity clubs

that would produce capital gain treatment for developers without the risk of option deals or the disadvantages of § 351 transactions.

GY&S's new structure is a hybrid of the option deals and § 351 transactions. Since the club sells the memberships to members, there is initially no tax on membership sales. The proceeds from those sales can then be used to pay debt used for golf course and clubhouse construction without first paying tax.

In addition, the developer gets long-term capital gain treatment, a major advantage if Bush's capital gains proposals are passed.

This arrangement can have a very positive effect on a developer's cash flow, taxes

**This arrangement can have a very positive effect on a developer's cash flow, taxes and profit.**

and profit.

For example, assume a course construction cost of \$4 million over two years; membership sales of \$10 million pro rata over five years; and a \$2-million basis in club property. While the § 351 transaction would create a cash drain in the early years under this scenario, the new structure requires no additional cash outlays to pay taxes. At corpo-

rate tax rates, cash flow in the first three years would be improved by almost \$885,000.

If the Bush administration proposal to reduce the federal long-term capital gain rate to 19.6 percent is adopted, the new structure will produce a 30-percent tax savings of \$336,000.

GY&S suggests that developers anticipating substantial profits in their club program consider this new structure to improve cash flow, reduce taxes and improve profits. Tax savings may also be available with related real estate.

*Kenneth Hart and Bernard Baker III are attorneys with Gunster, Yoakley, Criser & Stewart, P.A.*

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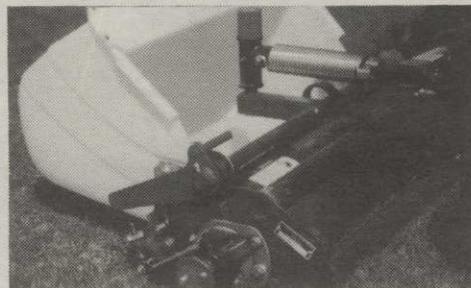
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## ON THE MOVE

### Int'l Management Group promotes Rielly to Asia

Mike Rielly is in the new post of director of real estate in Asia for International Management Group, and is based in IMG's Tokyo office.

Since graduating from Stanford University in 1985, Rielly has worked in IMG's Cleveland office, where he managed the affairs of PGA Tour players Peter Jacobsen, Ray Floyd, Tommy Nakajima and Isao Aoki and was responsible for IMG's U.S.-based golf course design and resort management projects.

IMG has identified Asia as a high-growth market for its recreational real-estate activities. Several IMG's clients, like Arnold Palmer, Gary Player, Greg Norman, Ray Floyd, Curtis Strange, David Graham, Bernhard Langer and Nick Faldo, design golf courses.

IMG Developments, Ltd. acts as project manager or lead developer for recreational real-estate developments around the world.

### Pebble Beach names O'Toole tourney head

Robert "Ducky" O'Toole has joined Pebble Beach Co. golf division as golf tournament coordinator, according to Paul Spengler, vice president of golf.

O'Toole will coordinate golf tournaments at Pebble Beach Golf Links, The Links at Spanish Bay and Spyglass Hill and Del Monte golf courses. He will act as liaison between all visiting golf groups and the golf courses.

O'Toole, a graduate of St. Mary's College in Moraga, Calif., is a former member of the Professional Golfers Association of America. He was most recently employed as manager and development consultant at Denise Duffy and Associates in Monterey.

### Stier head pro at Temeku CC

Landmark Club Management has named Ken Stier to be Head Golf Professional at Temeku Country Club, an 18-hole golf facility in Rancho California, Calif. The announcement was made by Joe Hough, director of consulting and management services for Landmark Land Co., Inc.

Stier was formerly first assistant professional at Oak Tree Country Club in Edmond, Okla., where he was in charge of accounting for the golf shop and was involved in tournament organization and member relations.

Stier attended Central State University and Oklahoma State University. He was in private business for 14 years prior to joining Landmark Land Co.

## Rutgers' Indyk joining Greenway

Dr. Henry Indyk, a nationally and regionally honored turfgrass specialist, is retiring from Rutgers University on June 30 and will join The Greenway Group of Horsham, Pa.

A professor for more than 30 years, Indyk will be chief agronomist with Turfcon, a recently formed division of GSI Consultants, Inc., which is a company managed by The Greenway Group. He will continue work on the construction, renovation and maintenance of athletic fields and other sports turf facilities.

His appointment was announced by group coordinator Thomas L.

Ripley Sr. of The Greenway Group, who said Indyk "played a vital role in elevating the term 'professional turfgrass manager.'"

Indyk was instrumental in the formation of the American Sod Producers Association, the New Jersey Turfgrass Association, the Cultivated Sod Association of New Jersey, the Irrigation Association of New Jersey and the Bergen County Landscape Contractors Association.

The Irrigation Association named Indyk its Man of the Year in 1978. His other honors include the New Jersey Turfgrass Hall of Fame Award in 1985 and the Golf Course



Dr. Henry Indyk

Superintendents Association of New Jersey's Distinguished Service Award in 1989.

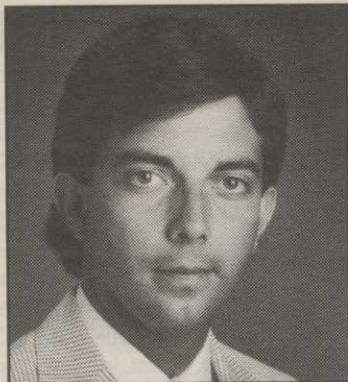


## Fister named senior vp for Hale Irwin

Patrick J. Fister has been promoted to senior vice president of development with Hale Irwin Golf Services, Inc. He manages the development of new and current golf course projects and coordinates the firm's design, construction and marketing programs.

Fister previously served as vice president.

Hale Irwin Golf Services is an international golf course design, development and management company based in St. Louis, Mo. Founded in 1986 by Irwin, PGA Tour professional and golf course



Patrick J. Fister

designer, the company designs private, resort and public golf courses as well as golf communities worldwide. It also provides expert management and operational support to existing golf courses.

## Spiroplaus La Costa's choice

John M. Spiroplaus, PGA master professional, has been named director of golf at La Costa Hotel & Spa in Carlsbad, Calif.

"Our No. 1 choice was John Spiroplaus, a man who has proven he is America's No. 1 golf director," said Senior Executive Vice President Klaus Ottman.

Spiroplaus is one of only 67 PGA pros to hold the master professional classification.

For the past 18 years, he has served as PGA head golf professional and director of golf at the Olympia Fields Country Club in Illinois. In 1985 and 1989 Olympia Fields won the title of "Best Golf Operation" for a private facility,

conferred by Golf Digest Magazine's Golf Shop Operations.

In 1977, and again in 1986, Spiroplaus was honored with the Horton Smith Award for his contributions to education and training programs for PGA professionals. He was named 1983 Golf Professional of the Year for the Illinois section of the Professional Golfers Association.

He has actively served on the PGA's National Education Affairs and National Rules committees, has been a faculty member of PGA Business Schools since 1976, and is coordinator of the rules workshops and head professional training seminars.

## Lasco puts Juwig in new irrigation post

Bryan M. Juwig has been named to the newly created position of irrigation market manager at Lasco Fittings Division, Philips Industries Inc., according to Quentin P. Gallivan, vice president of sales and marketing.

A board member of the Arizona Chapter, American Society of Irrigation Consultants, Juwig has over a decade's experience in various phases of golf and irrigation markets, Gallivan said.

## Elsewhere...

Columbia ParCar Corp. has announced the appointments of **Larry Josephson** as materials manager and **Paul Hoth** as assembly line supervisor. Prior to his appointment, Josephson worked at Trek Bicycle Corp. in the position of materials manager. Hoth held his position for many years before a short stint away to work for a local Columbia ParCar authorized service center.

**David Chapman** is the new regional sales manager in Illinois for the Kubota Tractor Corp.'s Northern Division, while **Jerry C. Wren** has been appointed pump and generator supervisor for the Southeast Division. Chapman had previously served as consumer products dealer development manager for the Northern Division. Wren joins Kubota with more than 17 years experience, having worked as vice president and general manager for a distributor of Onan generators.

**Greg Freyermuth**, formerly with Wheeler Fertilizer, has joined Sunbelt Seeds of Norcross, Ga., an affiliate of Lofts Seed Inc., as Florida sales manager. Freyermuth will also coordinate the new sales arrangement between Sunbelt Seeds and the Par Ex division of Vigoro Industries.

The Professional Business Group of The O.M. Scott & Sons Co. has announced the appointment of five new technical representatives for the Golf Sales group, according to Manager Dave Heegard.

**Tom Heid, Tom Brown, Andrew Bourne, Marque Randall and Rick Styer** each will be responsible for providing increased technical service, products and programs to golf course superintendents and turf managers within their regions.

Heid is responsible for northern Michigan, and Wisconsin counties bordering the Upper Peninsula; Brown for western North and South Carolina and the Augusta, Ga., area; Bourne for the Coachella Valley and San Bernardino in California and Las Vegas, Nev.; Randall for Utah, southern Idaho, western Wyoming, eastern Nevada and eastern sections of Oregon; and Styer for western Washington.

# Now Mow two days for the price of one

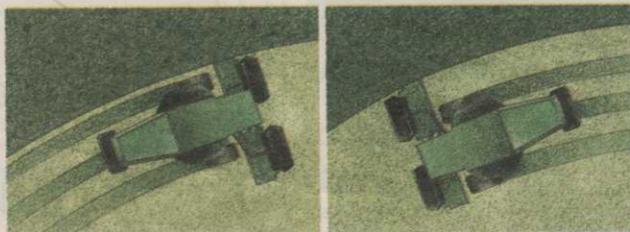
Offset cutting units. They are the key to this new mower's success. Meet the John Deere 2243 Professional Greens Mower. The first triplex ever to offer a head-on solution to compaction.

Until now, the built-in price you've always had to pay for triplex productivity has been increased compaction wear around the perimeter of your greens. That price just got cut in half.

The 2243's patented offset design allows you to spread machine weight over twice as much area. Simply change the direction of your perimeter cut each day, and your tires travel over completely different ground. Your greens get a welcome rest.

And that's just the start. The 2243 also features a liquid-cooled, 18-hp, gas engine; steerable cutting units; power steering; hydrostatic drive; ORFS hydraulic fittings and more.

Call 1-800-544-2122 for the location of your nearest distributor. Or write John Deere, Dept. 956, Moline, IL 61265 for free literature. Because you and your greens deserve the best—and this is as good as it gets.



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



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# EQUIPMENT NEWS

## Lofts opens Oregon research arm for turfgrass breeding

Lofts Seed Inc., of Bound Brook, N.J., has opened a research facility in Oregon, according to Vice President and Director of Research Dr. Richard Hurley.

The 50-acre farm outside Albany, Ore., will be headed by Dr. Virginia Lehman.

Hurley said: "We're delighted that Virginia has joined Lofts and we have big plans for our turfgrass breeding program in Oregon. With research farms on both coasts,

we have a unique opportunity to coordinate and expand our research efforts."

Lehman, who recently completed her Ph.D at Texas A&M University, holds a master's degree from the University of Idaho.

In her master's program Lehman specialized in turfgrass breeding and seed production.

## Seed Research adds advisers

Seed Research of Oregon has announced formation of the Seed Research technical advisory committee of 13 golf course superintendents from around the country who have "demonstrated professional excellence and dedication to the turfgrass industry."

The committee was created to advise Seed Research on the specific needs of golf courses regarding turfgrass species, varieties, blends, and mixtures. The committee will also evaluate new Seed Research products, assist in writing technical papers on turfgrass management and to advise on future marketing programs.

The members of the committee are Armen Suny of Castle Pines Golf Club, Castle Pines, Colo.; David Fleming, Golf Properties Man-

agement, Inc., El Cajon, Calif.

Also, Tony Anfinson, Riverside Country Club, Portland, Ore.; Charles Joachim, Champions Golf Club, Houston, Texas; Lee Redman, Sunset Country Club, St. Louis, Mo.

Ken Goodman, Bull Valley Country Club, Woodstock, Ill.; Kevin Ross, Falmouth Country Club, Falmouth, Maine; Raymond Beaudry, Patterson Club, Fairfield, Conn.; Jeff Broadbelt, Chester Valley Golf Club, Malvern, Pa.; Walter Montross, Springfield (Va.) Golf & Country Club.

Bob Farren, Resorts of Pinehurst, Pinehurst, N.C.; Ralph Heinz, The Landing, Savannah, Ga.; Scott Lewis, Menlo Country Club, Woodside, Calif.; and Henry Singh, city of Roseville, Roseville, Calif.

## Columbia forms vehicles division, appoints Laszewski

Columbia ParCar Corp. of Wisconsin has created an Industrial/Commercial vehicles division.

Headed by Jack A. Laszewski, the Industrial/Commercial Division manufactures vehicles for material handling, passenger transportation, building maintenance and repair, and turf maintenance.

Laszewski's responsibilities include all marketing and sales functions of the Industrial/Commercial vehicles divi-

sion, new product development, product advertising and promotion. Laszewski joins Columbia ParCar from his position as product brand manager at Mercury Marine.

First in Columbia's distribution network is Wisconsin Lift Truck.

Wisconsin Lift Truck Corp. markets various material handling product lines that include lift trucks, aerial platforms, skid steer loaders, reach trucks, turret trucks, side loaders, racking, casters,



Jack A. Laszewski  
wheels and more.

## Briefs...

### Cross wins sprayer

Donald Cross, superintendent at Bryn Mawr Country Club of Lincolnwood, Ill., has been given a CCS100 sprayer control system by DICKEY-john Corp. of Auburn, Ill.

Cross won the system at the GCSAA International Golf Course Conference and Show and intends to use it in applying growth regulators for controlling poa annua on his bentgrass greens, tees and fairways.

### 500 at Lebanon clinics

Lebanon Chemical Corp.'s Turf Products Division recently sponsored its spring turf

care clinics in Pennsylvania, New Jersey and New York for lawn care, golf course and grounds maintenance professionals.

About 500 attended the clinics in Reading, Pa.; Jamesburg, N.J.; and Hauppauge, Long Island, N.Y. Turf-care specialists providing in-depth presentations on their products represented Ciba-Geigy, Dow Chemical USA, Elanco Products Co., Lebanon, Hoechst-Roussel, Mobay Corp. Dupont, Sandoz, BASF and Rhone-Poulenc.

### Kubota reps see future

More than 1,000 representatives from Kubota Tractor Corp. coast-to-coast dealer network joined top management from KTC and its parent company, Kubota Corp., from March 8-11 for the company's 1990 national

Dealer Meeting and Parts Fair in Nashville, Tenn.

"Kubota Corp. is celebrating its centennial, and we want our dealers to help us kick off our second 100 years of progress," said Kubota Tractor Chairman S. Egusa. "They are technologically advanced products that will propel us into the next century."

### Automata adds reps

Automata, Inc. of Grass Valley, Calif., manufacturer of DATA-LYNX Computerized Farm Management Systems, has added four regional representatives.

They are: A.I.W., Inc. of Houston, Texas; Ralph Beatty & Associates of Denver, Colo.; IRZ Consulting of Hermiston, Ore.; and Techmark, Inc. of Lansing, Mich.

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For free information circle #127

## Protecting water topic of brochure

"Stop Killing Your Lake" is a new brochure available free from R.C. Sheaffers Co. of Sandwich, Ill.

It describes an activated oxygen and aeration system that restores lake and pond water quality. With installations dating back five years, the system invented and refined by Sheaffers is installed in lakes ranging in size from 326 surface acres to under one-half an acre, with depths from three to 35 feet.

The system offers an ecologically sound alternative to repeated chemical treatments. Unlike these, it solves the two major causes of eutrophic waters: high suspended nutrient levels and low dissolved oxygen levels.

The pamphlet explains how this leads to such symptoms as algae blooms, foul odors, and depleted fish populations.

Chemical treatment programs are compared to the Restoration System. The brochure details a chemical treatment cycle which will likely ring true with many water managers. Text and clear dia-

### 'Growing Turf the Hard Way' first in series

Turfgrass specialist Tom Mascaro has released the first of a planned series of video tapes. Titled "Growing Turf the Hard Way," it includes selections from Mascaro's collection of 75,000 slides and pictures.

This presentation covers many of the problems and experiences Mascaro has encountered during 50 years of working with golf course superintendents and other turfgrass managers.

"Growing Turf The Hard Way" is a behind-the-scenes video tape based on the concept that "we should learn from the mistakes and experiences of others, because we cannot possibly live long enough to make them all ourselves," he said.

To obtain the video contact Turf-Tec Productions, 2210 Laurel Lane, North Miami, Fla. 33181; 305-893-6449. **Circle No. 252**

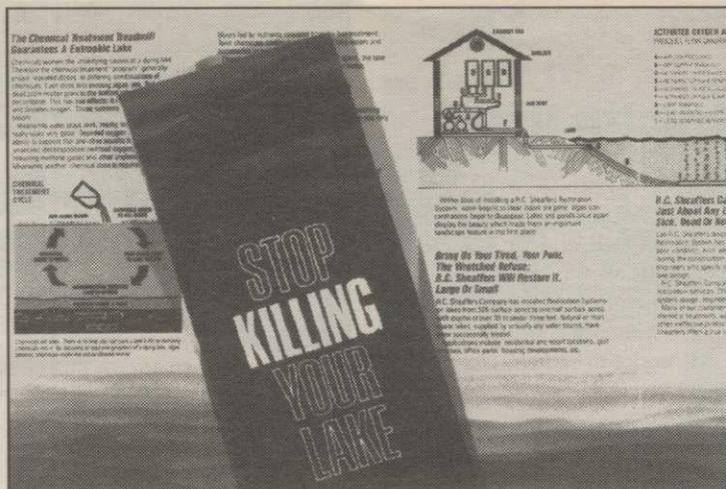
### Bridges displayed

Continental Bridge has introduced an eight-page color brochure that explains how its prefabricated bridges are designed, built, delivered and installed. The brochure features information on low-maintenance Self-Weathering steel bridges as well as its painted bridges.

Photos of installations show recreational and golf course bridges, crosswalks and skywalks, vehicular spans, and bridging support systems for industrial and municipal use.

Continental Bridges are available in any length and width. Most bridges under 75 feet can be delivered by truck in one piece.

For more information, call 800-328-2047. **Circle No. 251**



R.C. Sheaffers Co.'s new brochure

gram outline Restoration System workings.

For a free copy contact R.C.

Sheaffers at 303 N. Main St., Sandwich, Ill. 60548; 815-786-2396.

**Circle No. 258**

## NEW LITERATURE

### Video explains installation of Aquatrols irrigation system

Aquatrols is offering a videotape entitled "Selecting and Installing Aquatrols Irrigation Injection Equipment," which follows, step-by-step, the installation and calibration of both the Little Squirt and the P.P.M. Unit injection pumps.

"Increasingly, turf managers are recognizing the benefits of treating irrigation water with soil wetting agents to improve penetra-

tion, uniform wetting and increase water use efficiency," said Andy Moore, Aquatrols sales manager. "This tape shows how easy it is to install and operate our units."

The 12-minute VHS-format video is available for \$5, which will be applied toward the purchase of either injection pump.

Contact Aquatrols, 1432 Union Ave., Pennsauken, N.J. 08110; 800-257-7797. **Circle No. 253**

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August	Turf Update: Zoysiagrass sod; Seed Growers	Friday, July 20
September	Equipment Update: Sweepers, Vacuums & Blowers	Friday, Aug. 17
October	Equipment Update: Irrigation & Pumping Stations	Friday, Sept. 14
November	Special Report: Architects & Builders	Friday, Oct. 19
December	Chemical Update: Herbicides	Friday, Nov. 16

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## NEW PRODUCTS

### Ringer's Foliage 8-6-5 serves dual purpose for flowers, shrubs

Ringer Commercial Flower/Foliage 8-6-5 is a new, dual-function fertilizer marketed by Ringer Corp.

"The product provides optimum results for a wide variety of trees, shrubs and flower beds," says Scott Boutilier, Ringer's director of commercial sales.

"And it does so with the convenience of granular application,"

said Boutilier.

Commercial Flower/Foliage enhances and accelerates natural plant nutritional processes as opposed to providing a short-term chemical "fix." It is available in 25-pound bags.

For additional information contact Ringer Corp., 9959 Valley View Rd., Minneapolis, Minn. 55344. **Circle No. 301**

### Kubota shifts gears in its tractor line

Kubota has introduced two new tractors.

Glideshift transmission is the heart of the four-wheel drive L3650GST. The GST allows for easy shifting through eight forward and reverse speeds without using the clutch. The GST works to reduce engine and clutch stress and lessen operator fatigue.

With no clutching or pedal operation and a strong main hydraulic system, the L3650GST is practical for front-loader work. Other implements available include a rotary tiller, backhoe, rotary cutter, post hole



Kubota L3650 Tractor

digger and snowblower.

Also available are the new L-series tractors, the L2650DT-W, L2950DT-W and L3650DT-W 4WD. They are the first compact tractors with "Ever Clutch," designed to

greatly extend clutch life. Kubota offers a three-year/1,500-hour warranty on the clutch pack.

The "Ever Clutch" is a true wet clutch, with a steady stream of filtered hydraulic oil flowing through eight separate discs and pressure plates that keep the clutch cool while reducing friction. Clutch slippage and seizure are virtually eliminated, operation is more reliable and little down time results.

The compact design is aimed at greater operator convenience, comfort and safety with increased capacities for implements to improve working efficiency. The new LA450 and LA650 front loaders offer increased lift capacities over previous models, to move more material and lift heavier loads with shorter cycle times.

For more information contact Kubota Tractor Corp., 550 West Artesia Blvd., Compton, Calif. 90220. **Circle No. 309**

### Wind meter aids supers

Spectrum Technologies has introduced an easy-to-use, hand-held wind speed indicator that assists pesticide and fertilizer applicators in monitoring and documenting wind conditions.

The single scale eliminates the need to shift back and forth between two scales when wind speeds are variable or gusty. It is calibrated in both miles/hour and meters/second.

The dial measures up to 60 m.p.h. (26.8 meters/second) and is supported on sapphire jewel bearings for long life and minimal friction.

For additional information contact Spectrum Technologies, Inc., 12010 S. Aero Drive, Plainfield, Ill. 60544 or call (815) 436-4440. **Circle No. 308**

### PC controls irrigation

EICON has introduced a FM-based radio frequency central/satellite irrigation control system using an IBM/PC-compatible computer as the central controller.

The system provides fully automated operations and flexibility in scheduling, timing, start times, run times, program modifications and storage.

Complete programming and scheduling of individual valves within the system are also available. Software is self-prompting and user friendly.

For more information contact EICON, Inc., 7304 S. Alton Way, Suite M, Englewood, Colo. 80112. **Circle No. 300**

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Take a snap shot of the oldest working Cushman® Turf-Truckster™ on your golf course. If it's one of the oldest in the U.S. and Canada, you could win:

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1991 3-Wheel Turf-Truckster Model 530 with full compliment of accessories.

Air fare, lodging, and \$500 spending money for the 1991 GCSAA Show in Las Vegas, plus a 35mm camera.\*

### Second Prize:

\$500 Cash and a 35mm camera.\*

### Third Prize:

All contestants are eligible for a drawing to receive a free 35mm camera.\* Five winners will be drawn at random.

See entry form for details

\*All cameras to be awarded are an Olympus® 330 Super Zoom.



### Take your best shot.

Send your snap shot with an official entry form to Cushman by November 1, 1990. (Enter as many times as you have old Turf-Trucksters.) The competition will be tough because Turf-Trucksters stay on the job and working hard for so many years. Nothing else

like it lasts as long. You've got nothing to lose and everything to gain.

See your dealer for entry forms and complete contest rules, or call toll free 1-800-228-4444 today.

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## Scott markets new products

The newest addition to the Scotts ProTurf line of combination fertilizer and herbicide products is 14-0-14 Nitrogen/Potassium Fertilizer Plus Turf Weedgrass Control.

It provides weed control of six annual grassy weeds (crabgrass, goosegrass, foxtail, poa annua, barnyardgrass and fall panicum) and seven broadleaf weeds (chickweed, oxalis, spurge, cudweed, hop clover, henbit and evening primrose), while providing a feeding of nitrogen and potassium.

The new product was developed for use on established turfgrasses including Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, bermudagrass, St. Augustinegrass, centipedegrass, bahiagrass and zoysiagrass.

Scott has also introduced Scotts ProTurf Fluid Minors Package. This water-soluble liquid-concentrate fertilizer of chelated micro-nutrients helps correct deficiencies in iron and manganese and prevent zinc, copper and molybdenum deficiencies.

All the minor elements are in plant-available form. The new addition complements the existing granular product. ProTurf Step (Scotts Trace Element package).

Designed for use on all turfgrasses on putting greens, tees, fairways and other turf areas, Scotts Fluid Minors Package can be applied any time during the growing season. It is compatible for use with Scotts other liquid-applied ProTurf products, including 9-0-32 Flowable K Fertilizer.

Recently introduced Flowable K provides a high rate of readily available potassium from potassium nitrate without adding excessive growth, while helping to improve drought hardiness, disease resis-

tance and wear tolerance.

Flowable K delivers a light rate of controlled-release nitrogen, plus important nutrients for feeding and maintaining turfgrass color on putting greens, tees and other fine turf areas.

Another new member of the Scott line is ProTurf Hydrozyme Wetting Agent. The new addition helps prevent and eliminate localized dry spots and encourages vigorous turfgrass growth while aiding water penetration in hard-to-wet soils. It is available in either 30-gallon drums or cases of four, one-gallon containers.

Contact O.M. Scott & Sons Co.,



Scotts Flowable K Fertilizer  
14111 Scottslawn Road, Marysville, Ohio 43041; 800-543-0006. Circle No. 307

## TRIMS enhances graphics

LABB Systems, publisher of TRIMS Grounds Management Software, has released an enhancement package to make creating graphs with TRIMS as easy as printing reports.

This TRIMS 2.2 add-on feature provides the software to display and print publication quality graphs from information already contained in the TRIMS data files. Data from sources other than TRIMS can also be presented graphically with this new software.

TRIMS Graphics produces pie charts of labor activities

and budget expenses; line graphs of expenses, irrigation flow and weather data; plus bar charts illustrating soil nutrient accumulations. TRIMS also collects weather data from irrigation control weather stations for graphic presentation.

TRIMS Graphics supports all IBM/PC compatible graphics display screens, laser printers and most nine- and 24-pin printers.

For more information contact LABB Systems/Software at 602-481-9710. Circle No. 304



# Too Good to Believe!?

## Short-span bridges unveiled

Continental Bridge has introduced a new line of short-span bridges.

The pre-engineered, pre-fabricated steel bridges are economic alternatives to on-site construction. They are easily stacked for efficient shipping and are cost effective for multiple-bridge projects.

Bridges span 10 to 40 feet. All are six feet wide and offer seven-inch high bumper rails serving as curb stops for golf carts, bicycles, wheel chairs and other wheeled vehicles. Optional 42-inch high handrails are available. Prices start at \$1,300.

Bridges are made of self-weathering steel to provide many years of service with little maintenance. They are shipped completely assembled and install in a few hours. Installation requires equipment to lift the bridge to pre-constructed abutments. Optional handrails install separately and bolt into place.

Continental Bridge has 5,000 bridges worldwide and is America's largest manufacturer of pre-fabricated bridges. For further information call (800) 328-2047. Circle No. 303



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Conventional wisdom says, "If it sounds too good to believe you'd better not

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We seek out and discover new trails; we find creative solutions to new challenges. We are true innovators. It began with our first rotary driven sprinkler heads in tough, long-lasting Cyclocas casings. It was so different that some people laughed. No one laughs anymore. A lot of them copy, but they don't laugh!

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We know, as you do, that most parts of the country are faced with growing water shortages. We know, too, that even if there isn't a water shortage, you'd sure like to produce consistently superior fairways and greens for less cost.

For free information circle #129

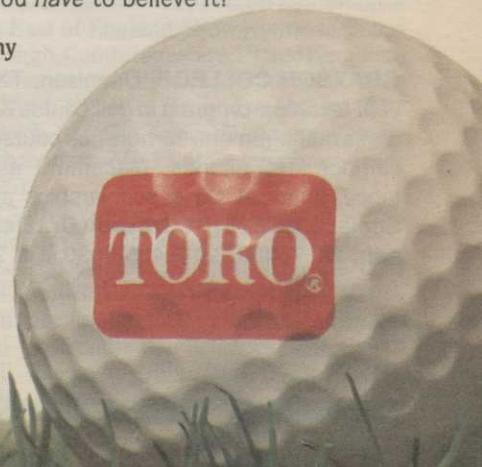
And that's exactly what Toro can do for you. Yes, it may sound too good to believe, but we're here to back it up. Don't take our word for it. Call The Man from Toro, let him demonstrate exactly what Toro Irrigation can mean to you and your golf course. Make him prove advantages such as these:

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Irrigation Division  
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Riverside, CA  
92502



# Golf Course Marketplace

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5831 South 58th St., #C  
Lincoln, NE 68516

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Golf course constr. mgr./post production superintendent w/BS degree in Agronomy from Texas A&M Univ., 12 yrs. turfgrass specialist exp. & 6 yrs. as golf course super., seeks golf course constr. &/or post production super. pos. For resume, write or call **Earl F. Arto, Rt. 5, Box 532, Houston, TX 77044. (713) 456-0773.**

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## INDUSTRY INFORMATION

### THOMAS R. WAIT

Inventor/developer of the:

- DonuTTrimmer Edging Blade
  - Aqua-Quick Coupler
  - LEVEL-EEZ Sprinkler Head Raising Kit
  - Greens Encroachment Barrier
- Announces that as of April 1, 1990 he is no longer associated with Greenstate International of Ft. Laud., FL. To contact Tom or or for product information, call:

**1-800-345-1960**

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### GOLF COURSE SERVICES

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### ATTENTION ADVERTISERS!

GCN's July issue, featuring an Equipment Update on

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Call **(813) 576-7077** to place your ad TODAY!!!

# Golf Course Marketplace

To reserve space in this section, call Simone Lewis, 813-576-7077

## CALENDAR

### June

6-7 — Landscape Industries '90 at the National Agricultural Centre in Stoneleigh, England. Contact Susan Bourne, International Relations Manager, Royal Agricultural Society of England, tel. 44-203-696969.

9-15 — FIS/ASSINSEL World Congress in Seville, Spain.

12-13 — Crittenden DealMaker's Conference, to meet cash partners for joint ventures, in Orlando, Fla. Contact Crittenden News Service, Inc., P.O. Box 1150, Novato, Calif. 94948; 415-382-2486.

18-19 — National Club Association's New Club Director Conference — for officers, directors, owners and managers of private clubs — at Pinehurst (N.C.) Hotel and Country Club. The program will encompass knowing the legal environment and the clubs' environmental status, the management team, finances and risk management, and insurance. Contact the NCA at Washington Harbour, 3050 K St., NW, Suite 330, Washington, D.C. 20007; 202-625-2080.

24-27 — American Society of Agricultural Engineers meet in Columbus, Ohio. Call 616-429-0300.

25-29 — American Seed Trade Association annual convention at the Grand Cypress Hotel in Orlando, Fla. Contact the ASTA at Suite 964, Executive Building, 1030 15th St., N.W., Washington, D.C. 20005; 202-223-4080.

### July

3-5 — Canadian Seed Trade Association annual convention at the Prince Edward Hotel in Charlottetown, Prince Edward Island.

8-12 — Pacific Seedsmen's Association meeting at Harvey's Casino in Lake Tahoe, Nev.

11-12 — Alabama Seedsmen's Association annual convention at the Hilton Hotel in Orange Beach, Ala. Contact Bob Burdett at 205-821-7440.

18-20 — Northern Seedsmen's Association summer meeting in Winnipeg, Manitoba.

22-24 — North Carolina Seedsmen's Association annual convention at the Sheraton Resort and Convention Center in Atlantic Beach, N.C. Contact Hortense Dilday at 919-782-3673.

25-27 — American Sod Producers Association's Summer Convention and Field Days in Ottawa, Ontario, Canada. Firms will be invited to demonstrate their equipment or exhibit their static displays during two days at the Manderley Farm in Kemptonville. Contact ASPA, 1855 Hicks Road, Rolling Meadows, Ill. 60008; 708-705-9898.

### August

1 — University of Georgia Turfgrass Field Day at Griffin, Ga. Contact Dr. Gil Landry or Dr. Tim Murphy at 404-228-7300.6

16-17 — South Dakota Seed Trade Association annual meeting at the South Dakota State Game Lodge in Custer (S.D.) State Park.

25-Sept. 10 — Asia Horticultural Tour of Thailand, Hong Kong and Japan. Contact the Professional Plant Growers Association at 517-694-7700.

### 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.

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.

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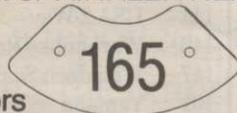
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# Practice makes perfect at home on the range

## ON THE GREEN

NORMAN E. JOHNSON

A problem facing many golfers is finding a good place to practice. This is particularly true in rural areas where driving ranges are rare. Small-town golf courses are often nine-hole layouts with little provision for a practice area.

But there is a solution to this problem for many and you may be surprised to learn that having or sharing your own practice area can become a practical reality.

As a golfer who has always liked to practice, I solved the practice problem after we moved to our rural home. I discovered there was plenty of farmland in the area marginally suited to crop production. All I had to do was approach a neighboring farmer and things began to take shape.

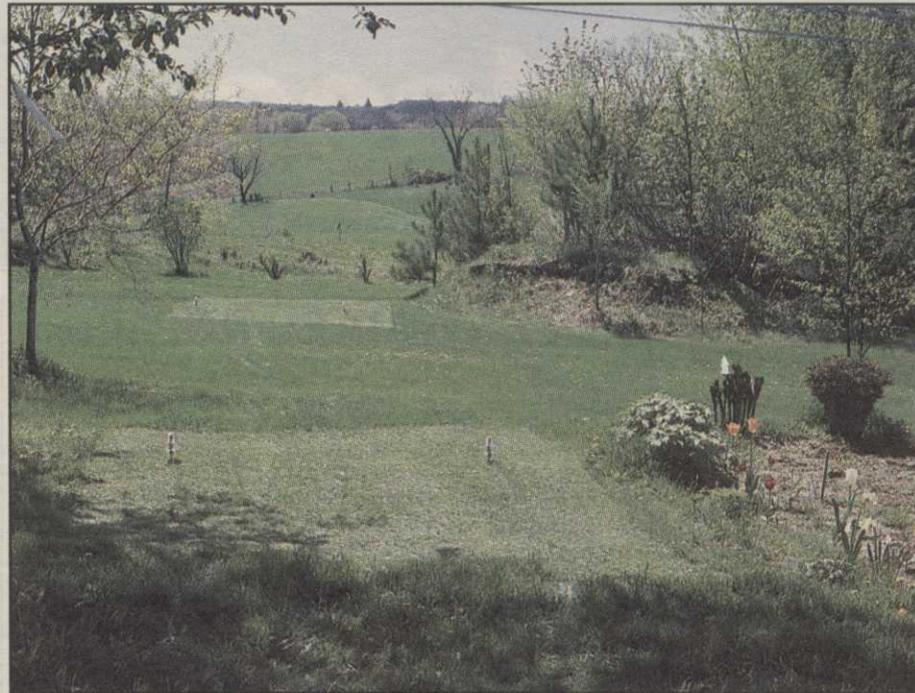
Part of a three-acre pasture caught my eye and I worked out a lease with the farmer to use the land for a practice range. I was doubly fortunate to find this land adjacent to our property and lost no time in grooming it to my needs.

Later, as a golf instructor, I found the practice area ideal for golf lessons as well as a place for others to practice. A serious golfer may want to locate and maintain his own practice area for a number of reasons.

For many it is a case of not having another place to practice. Others may be forced to travel farther than they like. But for the real student of the game, regular driving ranges often fail to offer a really quality practice area that benefits their games.

They may want better groomed turf areas, slopes and sand bunkers. You can also use your own golf balls — not the worn-out balls found at some driving ranges.

A great deal of personal satisfaction can be derived from your own practice area, too.



Norman Johnson has even added a landscaping touch with a flower bed at one of his practice tees. It's 'pick your tee or sandtrap' at this private range.

### Equipment and range maintenance

With minimal preparation and care, nature will provide adequate soil nutrition and water to sustain good grass growth in most agricultural areas. This is particularly true of old pastures or fields that may have been abandoned for one reason or another.

Often fields with too severe a slope are turned back to nature or may have too steep a grade to crop farm regularly. These can be ideal for the golfer's needs. In any case, grass can be grown and these areas can be shaped as practice areas with a little work.

You may wish to share this venture with

other golfers, thus minimizing the cost and maintenance.

In most cases a common riding lawn mower will be adequate to mow the grass once the growing surface is properly cleared. Usually, little grass seeding is required as nature seems to provide grass or suitable vegetation as turf. Regular mowing keeps weeds in check as grass spreads naturally over the land.

Some soil may require fertilizer or forms of weed control that can be accomplished with common lawn maintenance equipment.

In my case, I looked around and found a

used, three-gang, steel wheel, golf course mower to mow my three-acre practice area. The price was right and I now own them. I pull these with a small tractor.

I find that mowing the grass once a week, clipped to about one inch high, is ideal.

The property never looked as beautiful as it does now. I even made up a nice sand bunker from which to practice. The \$70 annual rental satisfies the farmer, and I couldn't be happier in finding such a place as a driving range and practice area.

You may not need further encouragement to get started.

Norman Johnson is a freelance writer and golf instructor in Plum City, Wis.

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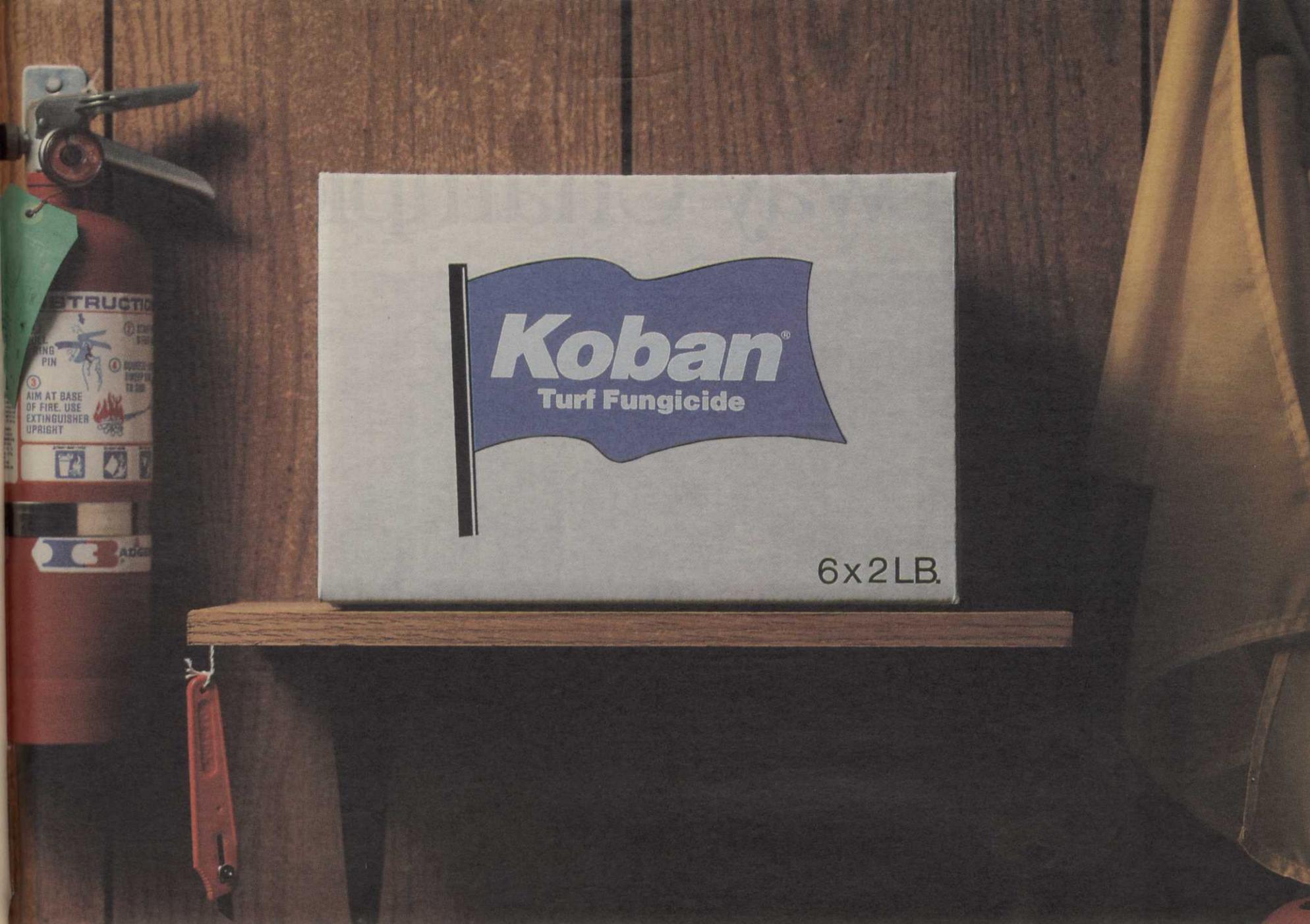
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