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GOLF COURSE NEWS

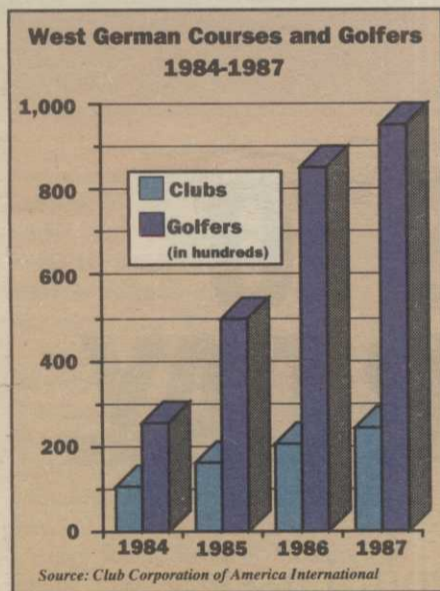
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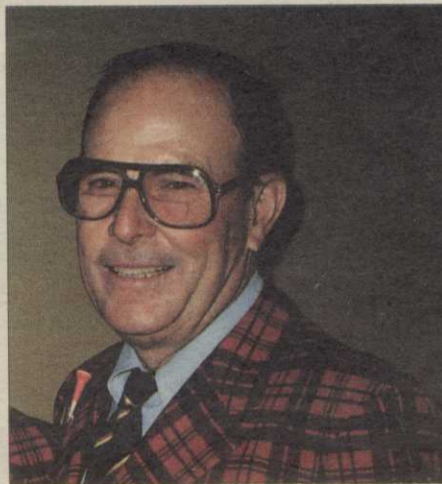
Pete Dye: Times
changing fast

BY MARK LESLIE

Pete Dye, who steps down as president of the American Society of Golf Course Architects during the annual conference in early April, says the major challenge for architects in the years ahead will be dealing with the myriad governmental agencies and regulations.

"With any development project in the United States ... whether it's a pipeline or foundry or golf course or housing development, the environmental impact is the prob-

CONTINUED ON Page 38



Pete Dye

ASGCA addressing
environment issues

Seminars on the environmental challenge, computer-aided golf course design and ground water contamination, and talks by National Golf Foundation and USGA officials will highlight the 43rd annual meeting of the American Society of Golf Course Architects in Pinehurst, N.C., April 1-6.

"First of all, this is definitely the largest conference we have ever had," said ASGCA Executive Secretary Paul Fullmer. "We have 65 members attending, which is 10 more than ever before; and we have 10 applicants

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Nestled amid spectacular red rock cliffs in one of the most picturesque regions of America's Southwest is the new Sedona, Ariz., Golf Resort's 18-hole championship public course designed by Gary Park. It's located 90 miles north of Phoenix and 45 miles south of Flagstaff. Looking from the tee, this is the 227-yard par 3 10th hole. For more information on new courses see pages 12 and 13.

Ruling plus for developers

BY VERN PUTNEY

After more than four years of wallowing and almost being swallowed up in bureaucratic red tape, it appears the Sherman Hollow golf course in Huntington, Vt., will be built.

The golf industry around the country is watching the confrontation in Vermont because what happens there may affect golf course development nationwide.

Paul Truax, a Huntington native, and Vermont partners of the planned \$22-million resort project within six months are expected to comply with what Vermont Environmental Board critics label a "nit-picking laundry list" of perceived deficiencies in Truax' original application.

The board on Feb. 17 voted 3-2 to refer the

CONTINUED ON Page 22

USGA grasses a breakthrough

Hailing breakthroughs in the most recent results of turfgrass research, USGA Executive Committee member Marion Farmer accepted the annual Golf Course Builders of America award on behalf of the USGA Green Section.

Farmer, accepting the plaque at the builders' annual meeting at the International

Golf Conference and Show in February, cited the work of researchers that will lead to breakthrough varieties of turfgrass being made available this year.

"It is my firm conviction," Farmer said, "that the USGA in future years will look back on turfgrass research as one of its most

CONTINUED ON Page 22

Europe fertile ground

BY MARK LESLIE

Declaring that golf is booming in Europe, organizers are preparing for Golf Course Europe, the first international exhibition and conference to be held in that region on the design, construction and maintenance of golf courses and on golf club management.

Expoconsult of Holland is planning the conference for Oct. 4-6 at the Rhein/Main Halls in Wiesbaden, West Germany, near Frankfurt.

"We're getting very encouraging reactions," said Allard Hoogland, managing partner of Exposonsult, adding that from the United States "quite a few are either attending as a means to survey the market, or lecturing, or participating in the show be-

cause it's really dawned upon the people in the U.S.A. that the European golf market is exploding."

Hoogland said, "There are over 500

new courses planned in Europe and many more plans are being made. And a lot of Europeans are looking to the U.S. for information."

The number of golfers in Europe reportedly has doubled in the last 10 years and is expected to double again in the next 10 years, he said, in a testament to the expanding universe of European golf.

He said thousands of Europeans need



CONTINUED ON Page 37



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Hyundai delays plans

BY MARK LESLIE
Hyundai Precision & Ind. Co., Ltd. has delayed its intended move into the United States golf car market, according to a company official.

Jin Sung Kim, senior manager in the Chicago, Ill., office of Hyundai, said, "We can't explain our situation right now ... (but) we've delayed our process."

A Hyundai official had reported that the company would be selling the car in the United States by the second quarter of the year.

Hyundai finished its prototype in February, and Kim said the manufacturing plant in Korea is now making the car and selling it in that country. He said there are 60 golf courses in Korea and 40 more are being developed, and Hyundai will concentrate on selling in that market until it is ready to distribute in the United States.

Kim disputed a statement by an official from Hyundai Corp. U.S.A. in January that the car would be a three-wheel, gas-powered vehicle.

Kim said Hyundai is making four-wheel cars in both gas and electric-powered models.

L.T. Walden of E-Z-GO said if Hyundai "comes in with a product that's good and if the price is way under (the competition's) they could be tough to contend with. Everybody (in the industry) would fear something like that."

Walden added, "They have to have distributors and that network is going to be the key. Who do they go after: Columbia ParCar's distributors, Yamaha's distributors, E-Z-GO's? That's the key."

Gary Jones, head of Yamaha Motor Corp. U.S.A.'s golf car

division, reiterated the necessity of a dealer distributorship network. "It's going to be very tough for them," he said, "and unless you have something different, a unique product, it's tough."

Yamaha got its foot into the U.S. market 10 years ago when it signed up a number of reportedly disgruntled Harley-Davidson golf car distributors. Harleys were the top gas-powered golf cars at the time but had introduced a couple of cars that had fallen flat in the marketplace.

Some of the Yamaha motorcycle dealers also established separate golf car businesses.

Also, there are few distributorships that sell more than one make, so that would seem to be a dead end.

One plus for Hyundai is its name recognition, gained through sale of its automobiles the last few years. But it still must compete with a small field of well-established car manufacturers who have all carved out their share of the 110,000- to 130,000-car-per-year U.S. market.

Architects' RFPs developed

The American Society of Golf Course Architects has developed a request for proposal form to simplify the bidding process for new golf course projects.

The condensed, 12-page RFP lists project specifics for the golf course architect. The ASGCA's 1988-89 president, Pete Dye, said the RFP's brevity "simplifies the bidding procedure and encourages more course designers to respond to proposals."

The proposal is divided into

six categories, including general notice, project description, scope of the architect's services, the owner's responsibilities, information on the architect's firm and experience, and the owner's selection process for a designer.

It also lists additional responsibilities the architect will be expected to bear, such as a feasibility study, site survey and preparation of an alternate plan.

Copies of the RFP can be obtained from the ASGCA, 221 N. La Salle St., Chicago, Ill 60601.



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Powell retains GCSAA title

Dave Powell, Charlotte, N., C., remains the Golf Course Superintendents Association of America national golf champion.

However, the misfortune of Kim Wenger, Eugene, Ore., was decisive.

Powell was in the clubhouse when disaster struck two-stroke leader Wenger on the par 3 17th hole at PGA West Stadium course, Palm Springs, Calif.

Wenger's tee shot on the treacherous hole made famous by Lee Trevino's ace during the 1987 Skins Game settled among the rocks guarding the island green.

From the ball drop area, Wenger pitched his approach through the green into the rocks again. His third attempt sailed over the green and into the water. He ended with a 9.

Powell also won the USGA Bobby Jones trophy in 1985. He is the third player in the tourney's 50-year history with three titles.

Robert Kronn, La Grange, Ill., and Hal Richburg, LaPlace, La., trailed Powell by one shot.

Of more than 500 players participating, 116 with handicaps of 6 or less competed for the crown.

Lawn care group defines issues

The Professional Lawn Care Association of America is undertaking several new projects under an "Issues Management" umbrella.

Creation of a new headquarter staff position: Director of State Government Affairs, will permit greater concentration on state and local regulatory and legislative issues.

Jim Wilkinson, director of regulatory and environmental affairs, will continue working with EPA, DOT, OSHA and other federal agencies.

There will be special Issues Management bulletins, and a public relations network comprising 60 members in 27 states will be in monthly contact with 1,600 newspapers, radio and television stations.

A new Council for Lawn Care Information service will recommend standards and policies for professional lawn care.

Training programs to familiarize PLCAA members with the legislative process will be offered.

Bengeyfield 'Turf Master'

USGA Green Section National Director William Bengeyfield has won double honors.

While the Golf Course Builders of America was honoring his Green Section team for its "pioneering work in turfgrass research and management, Bengeyfield was receiving the fourth annual "Grounds Maintenance" Turf Master Award.

Grounds Maintenance magazine, which reports on landscape design, construction and maintenance, recognized Bengeyfield for

his interests and expertise in a variety of fields affecting agronomy and horticulture.

For instance, Bengeyfield in 1982 implemented a plan to collect and distribute, through the USGA Foundation, large amounts of money to support a comprehensive research program to improve turfgrass.

The money also was to be used to encourage young turf scientists to become leaders in research.

Over the first six years, the research program has received

commitments of \$2.2 million. Current projections over 10 years call for commitments of about \$3.5 million. The money has funded more than 30 projects the last five years.

Bengeyfield, who joined the USGA in 1951 as staff agronomist and director of the Western Green Section region, has been national Green Section director since 1983. He also is editor of the "Green Section Record" and chairman of the Turfgrass Research Committee.

Monks square off against new course

The site of the little War of Snickers Gap has become a battlefield again — 125 years after the Civil War confrontation in Berryville, Va.

Golflinks Inc. President Mark Heacock and a group of investors want to build a championship golf course on land they bought for \$650,000 along the Shenandoah River. Across the river the 25 monks of Holy Cross Abbey are trying to persuade the Clarke County Planning Commission to deny zoning approval for the golf course.

The monks feel the course will attract hundreds of people and the mountains that rise up behind the site would amplify the noise.

Brother Benedict Simmons, the monks' spokesman, also refers to "talk about boating and swimming."

The Wall Street Journal quoted Heacock as saying, "All we want to do is build a high-quality golf course that preserves as open space two miles of riverfront. We appreciate and respect the lifestyle the monks have chosen. We want them to respect what we are trying to do."

Heacock has made concessions of no boating, picnics or outdoor parties.

The monks also fear sewage-treatment problems and claim that because 80 percent of the land is in a flood plain, the herbicides and pesticides that would be used would leach into the river.

Saying the monks and their supporters are caught up in "chemophobia," Heacock says, "This golf course will be run properly."

Both sides were awaiting a Planning Commission vote defining "golf course" — the developers wanting an expansive definition and the monks a restrictive one.

Noland Car sold

Outboard Marine Corp. of Illinois said it has bought certain assets of Noland Car Co., a private company based in Edgewater, Fla.

Terms weren't disclosed.

Noland manufactures gas and electric powered special purpose vehicles for golf courses and other facilities.



Landmark gets S.C. resorts

Landmark Land Co. of California, which specializes in residential and hotel resort developments including golf courses, has paid a reported \$35 million for several resort properties on Kiawah Island, S.C.

Landmark said it will redevelop the properties it bought from Kiawah Resort Associates of Charleston, S.C.

The total investment could reach \$250 million over the next five years, Landmark said.

\$45,000 grant to bolster development

Hoping to stimulate development of public golf facilities across the country, the United States Golf Association Foundation has made a one-time \$45,000 grant to the National Golf Foundation.

The NGF will use the grant from the USGA Foundation's President's Fund in an extensive promotion and information program design to:

- Increase awareness of local government officials, developers, lenders and other key groups of the need and opportunity for pub-

lic golf course development.

- Help initiate actions leading to development of these courses.

Brochures, booklets and advertising messages will be created and sent to target audiences.

"We are pleased with this grant — not only because it will intensify the NGF's overall effort in this area, but also because it demonstrates the USGA's recognition of the importance of public golf course development to the future growth and enjoyment of the game in America," said Dr. Joe Beditz,

NGF executive vice president and acting president and chief operating officer.

USGA President William C. Battle said, "The President's Fund was created specifically to fund projects which are important to the game but would not be part of our normal services.

"Encouraging the development of public golf courses is one of the reasons the USGA Public Golf Committee was created and we are delighted to assist the National Golf Foundation in this worthwhile

project."

"The NGF will be able to first target nearly 30,000 municipal officials, developers and lending institution officers to encourage them to consider the many benefits of developing golf courses within their communities," said Beditz. "Secondly, we will be following up this initial contact by distributing a new publication which will offer an overview of the items to consider when developing a public golf facility."

The new publication will be available later this year.

"We feel that this two-part approach will not only stimulate thinking about public golf course development," Beditz said, "but will also help stimulate action on the part of these key decision-makers. Ultimately, this is the goal of the program ... to have more and more cities, townships and counties develop golf courses for their citizens."

Traverse Cup pits industry's avid golfers

Golf industry leaders have been invited to compete in the Grand Traverse Resort's Traverse Cup in Traverse City, Mich., June 8-11.

Jack Nicklaus will participate in an exhibition round at the course he designed, known fittingly as "The Bear."

The Traverse Cup is sanctioned by "The Golfe," an association of leading industry golf enthusiasts.

Winners of The Traverse Cup and other sanctioned tournaments are invited to compete in the November Meeting Masters final tourney at Doral Country Club, Miami, Fla.

American Golf expands its course services

American Golf Corp. in Santa Monica, Calif., has announced that it has begun offering complete management services for the design, development and management of public and private golf courses.

Services will include feasibility studies, site selection, course design and planning, financial analysis, marketing expertise and course and clubhouse management.

American Golf, formed 20 years ago, now owns or leases more than 110 private and public golf courses nationwide.

Shinwa buys Wailea assets

A subsidiary of Shinwa Golf Group has bought the assets of Wailea Development Co. for \$197.5 million.

Alexander & Baldwin Inc. said it expects to report a gain of \$101.6 million, or \$2.16 a share, in the first quarter on the sale of its development company to Shinwa.

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LETTERS

Enjoyed coverage

To the editor:
Thank you for sending me a copy of the premiere issue of Golf Course News.

I was carried away by the dynamic qualities of articles and ex-

tent of their coverage.
Congratulations to you and the staff.

Sincerely,
Geoffrey S. Cornish
ASGCA past president
Amherst, Mass.

To the editor:
Congratulations on the premiere

issue. To be honest, I wasn't sure there was another niche available in the Northeast, but you seem to have created one. I especially like your efforts to follow the "hoorah" in Vermont.

Sincerely,
Patricia Vittum,
associate prof.r of entomology
UMassachusetts at Amherst

To the Editor:
Congratulations on your fine new publication for the golf industry. It is exactly what a news publication is supposed to be — informative and newsworthy. And it is

also evident that you do quality reporting: The story "Flash!" that your associate editor, Vern Putney, did on R•Scan's Weather Sentinel lightning alerts service for your premiere issue is by far the most accurate representation of our service that we have seen in any of the print media. You are providing excellent service to your readers by your reliable reporting.

Sincerely yours,
Liv Nordem,
director
corporate communications
R•Scan Corp.

To the Editor:

Congratulations on the premiere issue of Golf course News. Thank you for sending us a copy. We at McCumber Golf wish you much success with your new endeavor...

Sincerely,
Ruth Ann Kleinsteuber-Cox
director
marketing/public relations
McCumber Golf, Inc.
Middleburg, Fla.

To the editor:
My thanks for the premiere issue of Golf Course News. I found it to be highly interesting as well as informative. I commend you and your associates for launching this publication. Keep up the good work.

Sincerely,
James R. Watson,
vice president
The Toro Co.

To the editor:
I enjoyed the premiere issue of Golf Course News. Keep up the good work...

Sincerely,
John H. Gallup
commercial sales manager
Micro-Trak Systems, Inc.
Mankato, Minn.

To the editor:
Many thanks for the copy of the newspaper... The layout and design is excellent, and coupled with the color separations makes for a first-rate publication. The typography shows experience and the news of great importance to the golf industry.

Congratulations!
Regards,
Bill Lyons,
editor-publisher
Maine Golf

To the editor:
Please put us on your subscription list for Golf Course News. The first issue was terrific — as a golf course development and management company, the information in your publication will be very helpful.

Sincerely,
Whitney Crouse
The Club Group, Ltd.
Hilton Head, S.C.

To the editor:
I don't know a dollar spot from poa annua, but you all seem to. Golf Course News has a crisp and authoritative feeling to it, and you put together a first issue in which the editorial and ads both convey a good bit of interesting information in a complementary way. I hope this looks as good to the target audiences as it does to me.

All the best,
Richard Edmond,
executive vice president
Trend Magazines, Inc.
St. Petersburg, Fla.

Letters to the editor are welcomed, whether you have a comment on a golf industry issue, or a complaint or compliment on *Golf Course News*. Please address them to:
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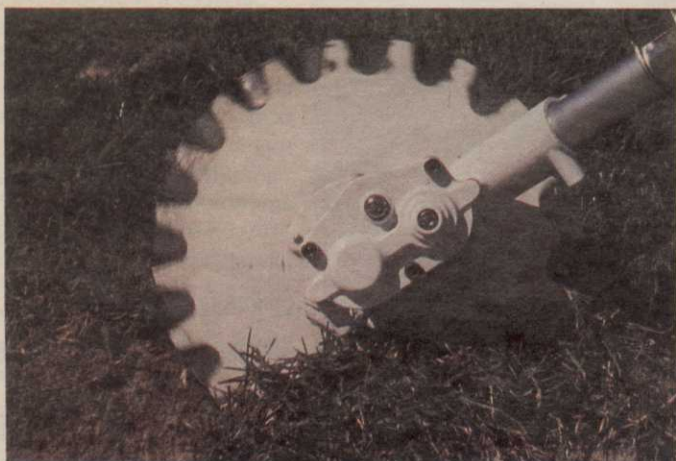
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Letter from News' publisher

Welcome to *Golf Course News*, Vol. 1 No. 2.

In case you missed the premiere issue, which was distributed at the GCSAA international conference, let me tell you what we have planned for you.

- Golf Course News will be a newspaper for the golf course business — not the pro shop, not the bar and restaurant ... the golf course.

- As a newspaper we will offer

timely editorial content in an easy-to-read format that will help you do your job better.

- You will get the latest updates on government rulings, new course construction and renovation, advances in groundskeeping and course maintenance, supplier and product news, plus other timely issues.

- Golf Course News will come to you every month in 1989 and nearly every other week in 1990,

when 20 issues are planned.

- Our plan is to inform, educate and entertain you with important golf course industry news.

This issue has been mailed to more than 20,000 readers at nearly 13,000 golf facilities in this country.

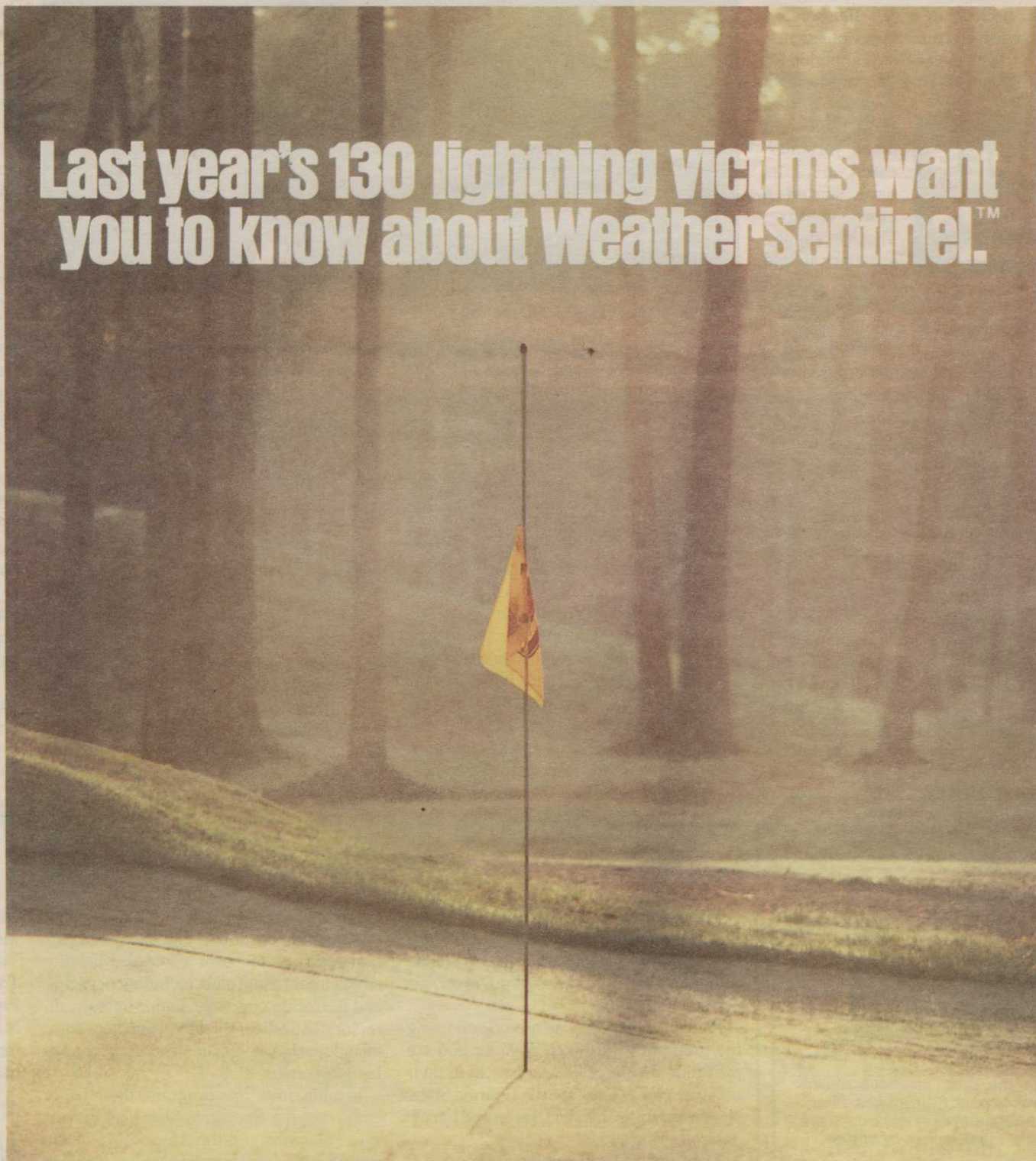
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Wolf from helps game that has helped him

BY VERN PUTNEY

Born on a golf course in 1934, Clem Wolf from never has left that environment, and now he aims to put something back into the game that has been his lifeblood.

Wolf from, who has been overseeing operations at the Detroit (Mich.) Golf Club since March 1962, has made his mark on Michigan soil — literally.

The Michigan PGA cited him for his leading role in the Michigan Turfgrass Foundation, which was founded by his father, Clarence, and two other men and is run by Michigan State University.

Clem was instrumental in forming the Founders Society, in which 100 persons (almost exclusively course superintendents) gave \$1,000 each over a five-year period for turfgrass research. That program was so

successful that Wolf from and other turf-interested persons have started a new venture. They're signing up 100 private and public course

members in the Michigan area to pledge \$2,000 over five years for a similar project at MSU.

The \$1 million endowment program will spend \$100,000 annually and be used strictly for golf course turf research.

"We're just putting something back into the game which has meant so much to us for so long," Wolf from explains.

"I've had nothing but enjoyment from this profession, always have been employed year-round, and have met many wonderful and friendly people. Golf seems to bring out the best people and the best in people," he said.

Wolf from's roots go deep. His family was living winters in an apartment over the Maple Lane Golf Course clubhouse in Sterling, Mich., when Clem was born. Father Clarence was for 54 years course superintendent at Maple Lane.

His Dad ran a small sod farm to supplement income. Clem and brothers Bruce,



Clem Wolf from at his Detroit Golf Club

Gerald and Wagner were digging weeds when they were 4 and 5 years old, then transferred their talents to the golf course in the company of Clarence. Bruce is course superintendent at Barton Hills Country Club in Ann Arbor, Mich. Gerald became a stockbroker, Wagner an educator.

Before joining Detroit Golf Club, Clem Wolf from was superintendent at Dearborn (Mich.) Country Club for six years. He'd been assistant there for eight months.

Clem still oversees a major earth-moving operation at the North championship course. The 36-hole layout in the heart of Detroit has been closed since August for renovation and won't be re-opened until June.

Vegetation, and bent and fescue grasses have been killed on all fairways and roughs extending 30 feet on each side. Fairways were recontoured, and pennecross bent

grasses were reseeded. Three varieties of rye grasses and fescue were returned to the rough.

This winter, sand in the bunkers was replaced with a sand from Ohio deemed lighter, more consistent, much more expensive and closer to USGA specifications.

Meeting this last standard is important. Detroit GC will host the 1992 Mid-Amateur tournament. Television coverage is probable, and USGA officials like to see sand portrayed properly in quality and color.

Many club members thought the North course was getting a new look strictly as preparation for the Mid-Amateur. Not so, says Wolf from.

Wolf from pinpointed North course decline — from old age — in 1980. The club was founded in 1899. The course was designed in 1914 by noted architect Donald Ross with

10,000-12,000 rounds annually in mind. Greens were small.

Play now exceeds 50,000 rounds yearly. Faster, closer-cut greens are in vogue. The course simply was not built to withstand such stress. Wolf from recommended extensive overhaul to the board of directors and it agreed. So 90 years later, the course is undergoing a rebirth.

Wolf from describes Detroit GC as "an oasis in a swelter of cars and concrete." Basically a membership club, it has prospered because of its green belt location, an oh-so-handy recreational retreat.

Many illustrious pros have served Detroit GC. Horton Smith, the nation's acknowledged premier putter in the 1930s and '40s, was club pro from 1945 to 1964. He died in 1964, and is honored annually with a spring tournament held in conjunction with the Michigan Medal Play event.

Former PGA champion Walter Burkemo, a brilliant match player, succeeded Smith and served 10 years. His assistant was Jimmy Thomson, recognized in the 1930s and '40s as the game's longest hitter. That distinction was passed along in the 1950s to George Bayer, Detroit GC pro from 1974 to 1984. Jim Vaughn has been head pro since 1984.

Wolf from found Thomson particularly fascinating. "I lunched with him almost daily for three years," recalls Wolf from. "He had a fund of stories drawn from vast travel and playing experiences. He was a delightful man."

Reflecting on his lifetime on the links, the 1962 MSU graduate can't think of a thing he'd change. Perhaps years down the road, when retirement looms, Wolf from may realize a long-held ambition — to own a golf course.

As the boss, this might provide more playing opportunity and a chance to sharpen his game, now stuck on a six handicap after swings from three to eight.

Realistically, though, those who know work zealot Wolf from best would bet that his responsibility for the course would end up overriding his desire to play. It runs in the family.

SUPER FOCUS

Insurance plan reaches Mississippi

Golf associations sign on as co-sponsors of cost-saving program

The Country Club Insurance Program that is endorsed by the National Golf Foundation is now available in 15 states from the Atlantic coast to the Mississippi River, according to the NGF.

Four golf associations are co-endorsing the program with the NGF so far and are providing the program as a benefit to their member clubs. They are the Georgia State, Northern Ohio, Chicago District and Carolinas golf associations.

The Country Club Insurance Program is part of a package of plans that reportedly can save qualifying golf facilities and associations 20-40 percent on their annual premiums. It was first offered in North and South Carolina, Illinois and Ohio late last year.

Most recently, it was introduced in Alabama, Florida, Georgia, Indiana, Kentucky, Maryland, Michigan, Mississippi, Tennessee, Virginia and Wisconsin.

It will continue to be introduced on a state-by-state basis throughout 1989.

The NGF said the program's two key elements are:

- Risk management standards that enable participating clubs to improve safety

conditions.

- Insurance products that have been custom-designed to cover all of the liability exposures at a golf club, including pesticide and herbicide coverage, liquor liability, directors' and officers' liability, business auto, inland marine, and crime and umbrella liability coverage.

In addition to this program, the NGF is endorsing the Executive Risk Plan for private golf clubs and the Association Insurance Program, a comprehensive plan for nonprofit local, state and regional golf associations and PGA Sections.

Associations participating in the Association Insurance Program include the Carolinas, Chicago District, Connecticut State, Georgia State, Massachusetts, Metropolitan, Nassau Women's, Northern Ohio, San Diego Women's, South Carolina, Tennessee, and Women's Southern California golf associations

Also, the Golf Association of Philadelphia; New Jersey Section PGA; San Diego County Junior Golf Association; and Women's Golf Association of Philadelphia.

FAI Insurance Counseling, Inc. is the administrator of the insurance programs,

while Crum & Forster and Chubb Group of Insurance Companies are the underwriters.

For more information people may contact Tom Marks, FAI, Golf Course Insurance Programs, 10 Waterview Blvd., Parsippany, N.J. 07054 (1-800-446-5311) or Christine Bell, Crum & Forster, 3414 North Duke St., Durham, N.C. 27704 (1-800-367-8744).

Foremost reports Meadowood GC sale pending

Foremost Corp. of America said it signed a definitive agreement for the sale of the Grand Rapids (Mich.) Marriott Inn, and the Meadowood Golf Course located in Centennial Park to Holly's Inc., a Grand Rapids-based hotel and restaurant corporation.

The sale, announced in mid-February, is subject to certain conditions, including obtaining all approvals and authorizations, Foremost said.

Azar's Inc., the manager of the hotel since it was opened in 1980, will continue to operate the hotel.

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Agri-Dealer network links group efforts

Two national agricultural organizations have adopted a plan to cooperate on projects serving retailers who supply fertilizer and crop-protection products to farm customers.

The joint program of the Fertilizer Institute and the National Agricultural Chemicals Association tentatively is termed the Agri-Dealer Action Network.

The project will coordinate a retailer conference this summer in Washington, D.C., support the bimonthly magazine "Dealer Progress," and establish a formal communication link among state and regional associations serving dealers.

"Our Retail Business Council has sought ways to more fully serve dealers while remaining within our association's 'fertilizer-only' policy

Endowment fund added to scholarship

The Golf Course Superintendents Association of America's Scholarship and Research Fund has gained added stature.

With assistance from golf course architect Robert Trent Jones Sr., an endowment campaign has been initiated.

Firms, golf clubs, GCSAA chapter affiliates and other organizations can help endow GCSAA projects.

The scholarship and research fund supports turfgrass research programs and scholarship awards for students pursuing careers in golf course management.

Since its establishment in 1956, the fund has awarded more than \$750,000 to students and researchers from leading colleges and research facilities.

The fund also has financed survey research concerning issues ranging from golf course maintenance costs and practices to the demands of course preparation for major golf tournaments.

Currently, GCSAA is sponsoring research of environmental and resource management techniques to conserve natural resources and preserve the environment.

William R. Roberts is scholarship and research committee chairman, John M. Schilling executive director.

Organizations interested in more fund information should contact GCSAA, 1617 St. Andrews Drive, Lawrence, Kan. 66046.

Please inform us

Golf Course News is asking all of its readers — from superintendents to architects to developers and suppliers — to send us news of your organizations. If it is planning a meeting, has elected officers, or has released a report of any kind, please send the information to: Golf Course News, P.O. Box 767, Yarmouth, Maine 04096.

scope," said Gary D. Myers, TFI president.

Jay Vroom, National Agricultural Chemicals Association president-elect, said the initial agreement on dealer projects will help both industries focus more clearly on areas of mutual concern at the grassroots level.

For more information, contact Tom Waldinger of TFI at 202-675-8273, or Jay Vroom of NACA at 202-296-1585.

Christians chairs ASA Division C5

Nick E. Christians of Iowa State University's Department of Horticulture is chairman of the American Society of Agronomy's Division C-5 for 1989.

Christians replaces Terrance P. Riordan of the University of Nebraska in Division C-5, which is devoted to turfgrass science.

Chairman-elect is Thomas L. Watschke of Penn State University, while Robert C. Shearman of the University of Nebraska was named Division C-5 board representative.

ASSOCIATION NEWS

Arizona's landscapers select Jones their new president

The Arizona Landscape Contractors Association has elected Douglas Jones president.

Jones, who heads sales and marketing for Western Tree Co., is the first associate member to

become president of ALCA.

He has been involved in the ALCA since 1981 and was an executive officer and chairman of the nationally acclaimed Arizona Landscape Award Program.

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Perry Dye says busy time ahead for builders

BY MARK LESLIE

The man who will lead the Golf Course Builders Association into the 1990s feels it's "a great time" to be president of the organization.

"When golf course architects and builders were not doing well, in the 1970s, it was tough," said Perry Dye. "But this is 1989 and the industry has really changed — and changed a lot in the last four or five years in my opinion."

Challenges abound in finances, the environment and in the mechanics of building golf courses, but the bottom line for builders is that demand for their services is high.

Dye, who was elected president in February at the International Golf Course Conference and Show in Anaheim, Calif., said that while golf course developers around the world are clamoring for experienced American builders, "the truth is that we really don't have enough people to handle the domestic supply."

Dye, who has 15 employees working and living in Japan, said, "If what the National Golf Foundation says is true about demand (needing a golf course a day until the year 2000) quite honestly ... we don't have enough people — bulldozer operators, shapers, irrigation technicians, that sort of thing — to supply that demand."

He said the Golf Course Builders Association is bringing together "all the people who are talented and trying to promote them to the architects and the owners" as the people with experience in building golf courses. I mean I started building golf courses working for my dad (Pete Dye) when I was 12."

With business booming, Dye said the builders' problem is getting to the new course sites and "making sure the job is done correctly when you get there."

He expects a lot of people to enter the business who have never built a golf course before. "And we have to be able to recognize

'Golf is going to go on but it's not going to go on unchecked.

Environmentalists, planning and zoning, all these people are still going to be around. Projects get approved on a one-by-one basis. They go before local zoning and committees...'

— Perry Dye

them for what they can do and try to get clients to recognize that not everyone can build a golf course," Dye said. "It may appear to be simple. It appears to be kind of like road construction or any major type of dirt construction, but golf course construction is totally unique..."

"And I've worked with a lot of contractors trying to get into the industry, but they tend to get not too enchanted because it is just so specialized that even though they are in the construction industry they can't switch into the golf course construction industry and pick it up real quickly..."

"It's the shaping and USGA greens mix, and all that sort of (technique) that is a specialty. And now it's a specialty in demand."

While the developer owns the course and the architect draws up the design specifications, Dye sees the builder as "the construction heart of that deal."

Because of that specialization and the enormous amount of money spent on a golf



Perry Dye

course today, Dye believes developers should take care in selecting a builder. "People may spend a lot of time selecting an architect," he said, but the architect's fee is usually 6 or 7 percent of the total project cost while the builder deals with around 93 percent. It's important that you deal with a good qualified person who is experienced, has done it before and knows how to give you the product," Dye said.

As the demand for builders' services increases, so does the demand that they master new fields of expertise, Dye feels.

"More and more nowadays we're having to deal with things we've never had to deal with before because premier, easy-to-build-on land is now taken by houses and what is left is what the golf course is allowed to go on, so we're usually left with a swamp, a hole, a landfill to build on," he said.

"A golf course is used to cover up a lot of blemishes. We haven't quite gotten into putting golf courses on toxic waste dumps, but it is something that would be an added

Course builders' 1989 officers

The Golf Course Builders Association's new slate of officers includes:

President: Perry Dye of Dye Designs, Inc., in Englewood, Colo.

Secretary: Jerry Pierman of International Golf Group in Juno Beach, Fla.

Treasurer: Jim Kirchdorfer of Irrigation Supply Co. in Louisville, Ky.

amenity."

Animals, fish, alligators, birds, all types of vegetation — all are causing problems for golf course developers in one place or another around the United States.

"I don't think people in the industry are going to go unchallenged by problems — especially environmentally speaking," Dye said. "We have problems we are going to have to work on."

"But I don't think that green grass and golf courses are going to be eliminated by our society for any reason. The open space created by a golf course and the maintained effect it has are positive influences. It's a very popular game. We have 23 million or 24 million golfers here in the United States."

"Golf is going to go on but it's not going to go on unchecked. Environmentalists, planning and zoning, all these people are still going to be around. Projects get approved on a one-by-one basis. They go before local zoning and committees... and I would much rather approve a golf course to be built on my piece of ground than I would a toxic waste dump."

"It is an alternative to use the ground. It works. I think people recognize that."

Burton's Walton chairs NGF's directors

W. Morris Walton, president of Burton Manufacturing Co., Inc., is the new chairman of the National Golf Foundation board of directors.

Other officers are Vice Chairman Glenn Rupp, president and chief operating officer of Wilson Sporting Goods Co.; Secretary

Charles Yash, vice president of marketing/sales for Golf Products of Spalding Sports Worldwide; and Treasurer Allan Solheim, vice president of Karsten Manufacturing Corp., who was re-elected.

Appointed directors were Gary Wiren, president of Golf Around the World; Terry

Williams, director of McKinsey & Co.; Gail Goodrich, vice president-acquisitions for American Golf Corp.; and Joseph Greenday, president of Golf Writers Association of America, Inc.

The National Golf Foundation is headquartered in Jupiter, Fla.

GCSAA changes its hierarchy

Gerald L. Faubel of Saginaw (Mich.) Country Club is the new vice president of the Golf Course Superintendents Association of America.

Faubel was elected at the association's recent International Golf Course Conference at Anaheim, Calif., during which Dennis D. Lyon of Aurora, Colo., was installed as president.

Stephen G. Cadenelli of Metedeconk National Golf Course in Jackson, N. Y., was appointed secretary-treasurer.

Cadinelli and Randy Nichols of Cherokee Town & Country Club in Dunwoody, Ga., were re-elected directors.

Gary T. Grigg of Shadow Glen GLC in Olathe, Kan., is a new director. Randy P. Zidik of Rolling Hills Country Club in McMurray, Pa., will fill Faubel's unexpired term.

William R. Roberts of Lochmoor Club in Grosse Pointe, Mich., and Joseph G. Baidy of Acacia Country Club in Lyndhurst, Ohio, continue as directors.



GCSAA President Dennis Lyon, center, with Vice President Gerald Faubel, left, and Secretary-Treasurer Stephen Cadenelli.

Association formed for turf journalists

A national association has been created to provide professional enrichment for turf and ornamental journalists.

The Turf and Ornamental Communicators Association (TOCA) will include editors, reporters, freelance writers, photographers, representatives of corporations and public relations agencies, and others involved in the business of providing information to turf and ornamental professions.

Bill Liles, director of Ciba-Geigy Corp.'s Turf and Ornamental Department which has provided a grant to fund TOCA, said the association "will allow editors and other communicators to develop their writing, editing, design, photographic and other skills, plus keep abreast of trends in this fast-growing industry."

"We hope others in the business community will come forward to help support this worthwhile association," Liles said.

TOCA will meet annually for seminars and a business meeting. Dues will be \$75, which includes a newsletter. An organizational meeting is tentatively scheduled for this fall.

Car association's Inman sees major challenges

BY MARK LESLIE

The new president of the National Golf Car Manufacturers Association believes the industry is about to experience the greatest growth it has ever seen.

Club Car Inc. President George Inman, who was elected president of the organization at its annual meeting, foresees an upbeat year both at home and abroad as golf popularity booms.

The golf industry faces the "challenge and opportunity" of meeting the demands of growing numbers of golfers, and this "brings a great opportunity to everybody who is supplying anything such as golf cars to the industry," says Inman.

Saying that golf course builders cannot keep up with the growing demand for courses, Inman said the industry will see "more crowding and more difficulty in getting on courses, and so I see that as being the biggest challenge and it's a great opportunity for everyone supplying the needs."

Citing the National Golf Foundation's finding that one golf course a day is needed between now and the year 2000, Inman said, "Take that type of growth alone, multiplied by the number of golf cars that are normally put on a new golf course, and you can extrapolate that into better growth for the golf car industry — on new business alone — than it has ever seen in the past."

Inman said the average fleet of new golf cars for a full course is between 55 and 70.

While in the past, many courses added two or three cars a year, "golf cars are now a part of the game," he said. "They are the tre-

The industry will see 'more crowding and more difficulty in getting on courses, and so I see that as being the biggest challenge and it's a great opportunity for everyone supplying the needs.'

— George Inman



George Inman

mendous revenue source, and they're needed, and courses start out with a full complement."

He said many of the courses, especially the resort courses, and many of the upscale minicourses want the image of good equipment.

"Golfers don't want to play on junk; they want to play on nice new equipment, so they (courses) are starting right off the bat with a full complement of new cars, which is good for our business," Inman said.

Inman also sees "tremendous activity" overseas.

"We have had more interest in international sales in the last six to 12 months than we have in all my history in the business," he said.

"And that's all the way from the East to the West and all over. Europe is getting ready to

really bust open. There's no doubt about that."

Inman said the entire golf car industry is upbeat about this year and the future, especially because of its members' love for the game.

"If the members ever allow ourselves to get selfish then the association will disband," he said. "We'll lose that spirit, the camaraderie that is there, the sport that we are all interested in."

Rossi doesn't expect that to happen. Rossi said the golf car manufacturers are "good people ... always looking at the best interests of golf."

Rossi pointed out that all the companies are doing independent research on compaction of the ground and materials for golf paths. They also stand behind self-imposed manufacturing standards they established

Golf car makers' 1989 officers

NGCMA's new slate of officers includes:

President: George Inman, president of Club Car Inc.

Vice President: Todd Sauey, president of Columbia ParCar Corp.,

Secretary-Treasurer: Don Rossi, the association's executive director.

10 years ago, and support the National Golf Foundation and other golfing organizations.

"The whole industry creates a spirit that is really healthy," Inman said.

An Augusta, Ga., native and resident, Inman has been involved in the golf car business since 1961. He worked with E-Z-GO for 16 years, the last several as vice president of operations. In 1978 he and seven other E-Z-GO employees led a purchase of Club Car, and he took over as vice president of operations for 10 months until becoming president, chairman of the board and chief executive officer.

Since his group bought a major minority of the publicly owned Club Car, it has grown twenty-fold. It has grown from 75 employees to more than 600 and now controls 30 percent of the golf car market with 135 outlets that sell the cars throughout the United States and in 26 foreign countries.

Fertilizer Institute elects Geise chairman of new officers

Al Geise is the new chairman of The Fertilizer Institute, Washington, D. C.

His and other elections came during the association's recent annual meeting at New Orleans, La. More than 1,000 industry representatives attended.

Geise is vice president of plant

food, Cenex/Land O'Lakes, St. Paul, Minn.

Al Rouse, president and chief operating officer of Terra International, Sioux City, Iowa, was elected vice chairman. Gary D. Myers, Washington, D. C., was re-elected president and chief staff officer.

Others elected to the executive

committee were: Philip Ashcraft of Agway in, Syracuse, N. Y.; Michael Hochgesang of Jasper Plant Foods Warehouse in Jasper, Ind.;

Also, Herbert Kirby of Arcadia in Parsippany, N. J.; Richard Norton of Allied Signal in Morristown, N. J.; Charles Seaton of Kaiser Estech in Savannah, Ga., and

Dean Travis of J.R. Simplot in Pocatello, Idaho.

Billie Turner, IMC Fertilizer, Northbrook, Ill., immediate past board chairman, is an ex officio member.

Other Washington staff officers re-elected were: Ford B. West, vice president, government relations;

Thomas E. Waldinger, vice president, public affairs, and Harold W. Hale, vice president, administration and secretary-treasurer.

With Hale's announced plans for retirement later this year, the board elected P. Whitney Yelverton to assume Hale's position effective June 1.

USGA awards \$660,300 in grants

The United States Golf Association has announced a record \$660,300 in grants this year as part of its turfgrass research program.

This is an increase of more than \$190,000 over 1988.

The program, now in its seventh year, is a cooperative venture shared by the USGA and the Golf Course Superintendents Association of America.

The USGA now has provided nearly \$3 million in grants in an attempt to develop new turfgrasses and management techniques that will reduce golf course maintenance costs and water use by 50 percent by 1993.

Grants will be awarded in 1989 for 19 projects to many institutions for studies involving turfgrass breeding, cultural practices and the USGA Turfgrass Information File at Michigan State University.

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NEW COURSES

Ault, Clark finishing four in East, S'east

Four courses designed by Ault, Clark & Associates, Ltd. of Wheaton, Md., will be completed this year, including three in the East and Southeast United States.

The architects have targeted September

as the completion month for Wild Quail Golf and Country Club in Wyoming, Del., Savannah Lakes Village Golf Course in McCormick, S.C., Kiln Creek Golf Course in Newport News, Va., and Emerald River Golf Course in Laughlin, Nev.

Another course, Ponce De Leon Golf Course in Hot Springs Village, Ark., is expected to be complete in September 1990.

Wild Quail Associates' Wild Quail private course is a 6,800-yard layout in central Delaware. The 6,950-yard private Savannah Lakes course, developed on hilly terrain by Cooper Communities, Inc., borders the S. Thurmond Reservoir.

The Kiln Creek terrain was perfectly flat but because of water drainage for the development, Ault, Clark & Associates sculpted more than 3 million cubic yards of soil, creating what it feels is "tremendous movement and elevations throughout the course."

The private, 18-hole course, developed by R.G. Moore Building Corp., will cover 7,000 yards.

The Nevada course, developed by John Midby & Associates, will cover 6,950 yards of hilly terrain bordering the Colorado River and surrounding four new casinos. It will be a daily fee course.

Cooper Communities is also developing the Ponce De Leon course, which will cover 6,900 yards and be a private facility built in conjunction with housing.

Palmer Design readies five

Palmer Course Design Co. of Ponte Vedra Beach, Fla., plans to open five new courses this year and is building another it expects to debut in 1991.

Palmer Design's Eagle Watch in Woodstock, Ga., will lead the parade with a May opening. It will be an 18-hole, daily fee course.

Cullasaja Club in Highlands, N.C., will open in July as a private 18-hole course.

White Eagle Club in Naperville, Ill., Spencer T. Olin Golf Club in Alton, Ill., and Angel Park in Las Vegas, Nev., are booked for August openings. White Eagle will be a private, 18-hole layout, while Olin will be an 18-hole municipal course and Angel Park a 36-hole daily fee facility.

Blueberry Hills, which Palmer is designing as an 18-hole private course in New Ipswich, N.H., is expected to open in the spring of 1991.

Maples completes private courses

Golf course architect and developer Dan Maples, who in November completed the private Longleaf Country Club which he owns in Pinehurst, N.C., is finishing another course this spring.

Dan Maples Design, Inc., expects to open

Providence Country Club in Charlotte, N.C., around ponds and meandering creeks and along rolling terrain.

The 6,905-yard par-71 course, owned by First Carolina Investors, will be a private facility.

Nevis Island faces 8-billion yen facelift

Tobishima Corp., a major Japanese construction firm, has announced that it will participate with French and Canadian concerns in development of a high-class resort on a Caribbean island.

Tobishima will form a joint venture with the Paris-based Dumez, a leading construction company in that country, and Four

Seasons Hotels of Toronto, to develop the resort of Nevis Island, part of the St. Christopher, Nevis Island Group.

The firm, Nevis Hotel Development Inc., will invest some 8 billion yen in the first phase of construction work to build a golf course there due to open by the end of the year, the announcement said.

Plans for academy endanger project

State funding for a golf course at Rocky Gap State Park in western Maryland could be jeopardized by a decision to include a two-hole golf academy in the project.

State Sen. John A. Cade, R-Anne Arundel, said he would not vote to support the academy if state funds were used to build it.

Gov. William Donald Schaefer requested \$12 million in this year's budget for the golf course at the park northeast of Cumberland.

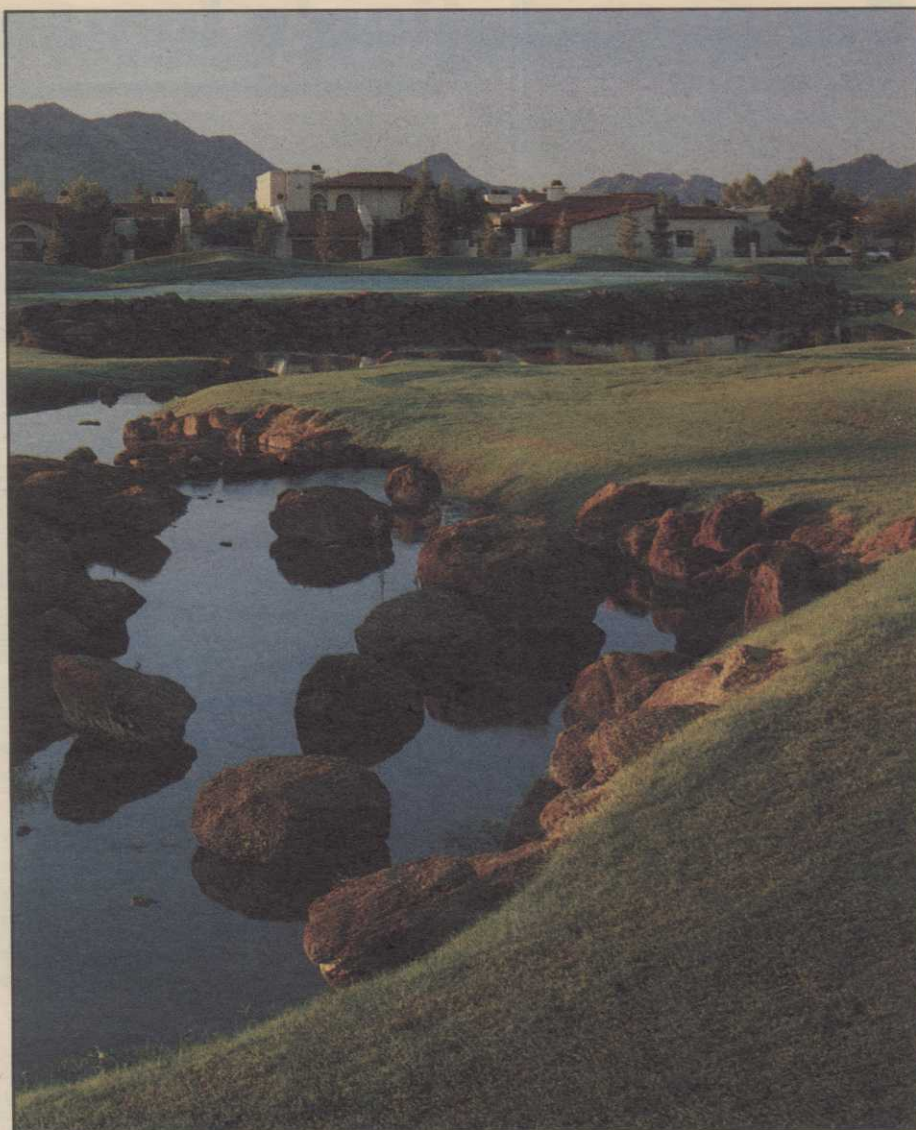
Cade said he and other members of the Senate Budget and Taxation Committee made a com-

mitment to build an 18-hole golf course if the state gets a private developer to build a conference center that many lawmakers believe is necessary to make the golf course financially viable.

But he said there was no commitment to pay for a golf academy with two additional holes, where golfers would go to improve their game.

Sen. Laurence Levitan, D-Montgomery, chairman of the budget committee, said the Department of Natural Resources

"ought to try to find private funding for the academy."



Stonecreek Golf Club in Phoenix, Ariz., redesigned by Arthur Hills and Associates, is a stunning course that meanders through the Paradise Valley area. This is the sixth hole of the layout, which Resort Management of America President Henry DeLozier wanted built to give players "the privilege of playing the game the way the pros play it." The course is actually in its third generation, being the transformation of the old Anasazi Golf Club.

Hills' firm dazzles with two-hole green

With one course having opened in January, three more due to be unveiled in July, and another nine under construction from Florida to Michigan, Arthur Hills and Associates are busy.

The firm almost completely redesigned Stonecreek Golf Club, formerly known at Anasazi, which opened in January in Phoenix, Ariz.'s Paradise Valley for resort developer Westcor. The 6,931-yard par-71 layout, long and narrow, strongly resembles the format of the Old Course at St. Andrews.

Stonecreek's dominant feature is a dry creek bed that has been deepened and redefined and filled with hundreds of thousands of rocks from the Salt River. The channel comes into play on all but one hole.

The course also features a double green (for holes 10 and 17) rising eight feet above the creek, which divides to encircle it. A USGA official said this was the finest example of a double green he had encountered.

One of the prime improvements to the previous facilities is a 330-yard-long practice area with tees at both ends and six target green in between.

Architect Hills and associates Mike Dasher and Steve Forrest are eyeing July openings for Willoughby at Mariner Sands in Stuart, Fla.; Fox Hills Country Club in Plymouth, Mich.; and Pine Trace Golf Club in Rochester Hills, Mich.

Developers Sun Oil and Erling Speer plan a private club at Stuart where the course will measure 6,700 yards.

The 6,750-yard course at Plymouth and

the 6,600-yard course at Rochester Hills, Mich., will both be daily fee.

Elsewhere, Hills and Associates is designing:

- Ironhorse, a 6,900-yard private course in West Palm Beach, Fla., for developers Josh Muss and Alan Sher.

- Old Trail, Jonathan's Private Landing, a 6,900-yard private course in Jupiter, Fla., for Alcoa, Inc.

- Windward Hills, two 7,000-yard 18-hole courses in Atlanta, Ga., for Fuji Development.

- Green Ridge Country Club, which is relocating from its 27-hole site to a 36-hole layout in Grand Rapids, Mich.

- Maumee State Park Golf Course, a 6,900-yard municipal course in Maumee, Ohio, for Ohio State.

- Fairfield Communities (whose name will be determined), a 7,000-yard semi-private course in Green Valley, Ariz.

- Green Valley South (whose name will be determined), a 7,000-yard layout in Las Vegas, Nev., for American Nevada Corp.

- Airport Site, a 7,000-yard superior-type municipal course in Salt Lake City, Utah.

- And Harbour Pointe, a daily fee course in Seattle, Wash., for a limited partnership.

Hills and Associates is also in the bid stage on two courses — Windsor Parke in Jacksonville, Fla., being developed by Florida & Coro Investments; and Hatchett Creek at Jacaranda in Venice, Fla., a private course being developed by Gulf Stream Land Development.

Borland opens firm in Chicago

Bruce Borland has launched Pro Golf Designs, a Chicago-based golf course architectural firm specializing in the design and remodeling of public and private golf courses throughout the United States.

The Golf Club of Illinois, a recent Borland design, was rated by Golf Digest one of the best new courses to open in 1987.

The former senior project designer for Dick Nugent Associates also is a contributing editor for Par Excellence magazine.

He is a member of the American Society of Golf Course Architects and the American Society of Landscape Architects.

Contact Bruce Borland, Principal, 1157 North Beverly Lane, Arlington Heights, Ill. 60004.

Blackwolf Run goes 27 holes

Blackwolf Run, Golf Digest's "The Best New Public Golf Course of 1988" will add nine holes in July.

Blackwolf Run is located on the south end of Kohler village in Wisconsin and is rated the Badger State's most difficult course.

The first and second nines, known respectively as the River and Valleys courses, opened last June. The championship set of tees plays to 6,943 yards.

Pete Dye oversaw the project for the Kohler Co.

Please keep us informed

Each month, Golf Course News - in cooperation with the American Society of Golf Course Architects - will publish news stories on new golf courses being built in the United States.

We are asking people who are planning or have begun construction of new courses, or rebuilding or expansion of existing ones, to write to Golf Course News, P.O. Box 767, Yarmouth, Maine 04096.

Golf Course News is particularly interested in:

- The city and state of the course.
- The owner, builder and architect.
- The number of holes and total yards.
- Whether the course is private, daily fee or municipal.
- The target date for completion.
- The type of terrain or any outstanding features of the layout of the course.
- Color or black and white photos of unique holes.

Finger Dye Spann designing municipals

Firm has four municipal courses under construction around country

Finger Dye Spann, Inc. of Houston, Texas, has four municipal courses under construction — from the desert of New Mexico to a wetlands in Colorado — slated for completion at the end of this year and in 1990.

The courses are:

- Farmington (N.M.) Municipal Golf Course, which is being built

in a desert setting with "magnificent sandstone bluffs" around it. Expected to be finished in October, it covers 7,050 yards for "tigers", 6,650 yards and 5,500 yards for ladies. It is being built by Southwest Golf and Atchison Construction.

- Northwest Municipal Golf Course in San Antonio, Texas,

which is in extremely hilly terrain and covers 7,100, 6,600 and 5,600 yards.

Saur Construction and RDM Inc. are developing the course which is due to be completed next November.

- Thorncreek Municipal Golf Course in Thornton, Colo., which has necessitated wetlands

replacement and extensive work with hydrologists in a flood plain. The project, which goes to bid this spring, is planned for spring 1990 completion and is expected to be 7,155 yards long.

- El Paso (Texas) North Municipal Golf Course, an 18-hole course which is due for October 1990 completion.



Professional turf performers.

First-rate disease and weed control demands a professional's touch. And here are the Turf Care products that have what it takes.

Daconil 2787. The cornerstone of a professional spray program. Daconil 2787 is economical to use and the most effective, broadest-spectrum turf fungicide on the market. Controls 12 major turfgrass diseases. Available as a flowable or wettable powder formulation.

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Daconate 6. The proven postemergent herbicide. Highly effective against pesky weeds such as crabgrass. (Sold as Bueno 6 in western states only.)

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Frigate adjuvant. The only product specifically formulated to enhance the performance of Roundup* for control of perennial and annual weeds. For turf renovations and non-cropland use, too.

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The Turf Care® pros.

*Roundup is a registered trademark of Monsanto Company. Always follow label directions carefully when using turf chemicals.

Can-Am Golf forms Hurdzan Design Group

Golf course architect Dr. Michael Hurdzan has announced formation of Hurdzan Design Group, which will provide golf course architecture, construction management and related services nationally and internationally.

Hurdzan Design Group, which will operate as a division of Can-Am Golf Enterprises, Inc., is the successor of the golf course design firm of Kidwell & Hurdzan, Inc., formed by Hurdzan and his mentor, Jack Kidwell.

Since the 1960s, Kidwell &

Hurdzan built or renovated more than 100 golf courses. Several have received national recognition, and both Hurdzan and Kidwell have served as presidents of the American Society of Golf Course Architects.

Kidwell is serving as senior design consultant for Hurdzan Design Group, while Hurdzan is president and chief operating officer, and serves as executive vice president of Can-Am Golf Enterprises.

In 1986 Hurdzan formed Can-

Am along with Michael C. Rippey, president of Can-Am Golf in the United States, and Robert W. Labbett, president of Can-Am Golf in Canada. The company is headquartered in Michigan City, Ind., and Waterloo, Ontario, Canada.

Can-Am Golf and Hurdzan Design Group estimate sales of \$2 million for 1988 and project sales surpassing \$3 million for 1989. They have 30 projects underway in the United States and five in Canada.

"With the development of our design team over the past two years, and the addition of some outstanding new personnel, I feel that we can match any golf course design group in the world when it comes to experience and talent," Hurdzan said.

The firm recently hired designer W. Craig Schreiner, formerly with architect Donald Sechrest; and project manager Dana Fry, who formerly worked with architect Tom Fazio.

Both Schreiner and Fry have

been involved in the design and construction of some of the top golf courses opened in the United States in the last five years, Hurdzan said.

Landscape architects Linda Merchant, Hari Ruiz and Barry Serafin, all of whom have golf course experience and expertise in related areas such as natural resources management, round out the staff.

Hurdzan said the firm will need to add more personnel in the next year.

Korea cutting taxes on imported cars

South Korea's trade and industry minister said his country will reduce excise taxes for imported golf equipment and cars, abolish laws designed to curb imports, and make other moves to narrow its trade surplus with the United States.

South Korea wants to cut that surplus from \$8.5 billion in 1988 to \$6.5 billion this year, said Hahn Seung Soo.

South Korea also will advance the opening of its markets for beef, pork, chicken and fruit juice; implement substantial protection of U.S. intellectual-property rights; and lower import tariffs for high-technology products.

He said South Korea will send missions to the United States to buy \$4 billion of American goods through May.

Barton Creek resort sold

Freeport-McMoRan Inc. has sold the Barton Creek Country Club and conference resort in Austin, Texas, to Club Corp. International for about \$30 million.

Freeport-McMoRan bought the resort properties and about 2,600 acres adjacent to the properties for about \$60 million last year. The company said it will hold on to the 2,600 acres for future development.

Club Resorts Inc. began operating and managing the country club and hotel on March 1.

Fairway merger awaits vote

Shareholders in Prime Financial Partners L.P. of Scottsdale, Ariz., and Fairway Land Co. of Laguna Niguel, Calif., will vote on a merger transaction valued at about \$25 million in stock.

Prime Financial said it plans to acquire Fairway Land in an agreement that calls for issuance of 6 million new Prime units, plus about 5 million warrants for all Fairway Land shares.

Fairway Land is the developer of the Marbella Golf and Country Club project of San Juan Capistrano located in South Orange County, Calif.

Prime Financial said the merger, if approved by both firms' shareholders, should close in July.

Introducing Cutless.®

A new kind of turf growth regulator that gives your course a bottom line boost:

More playability.



Golf world mourns loss of Herb Graffis



Herb Graffis

The golf world has been mourning the death of one of its greats, Herb Graffis, who founded the National Golf Foundation and the Golf Writers Association of America.

"In my book, he was the greatest man this industry will ever see," said Don Rossi, executive director of the Golf Course Builders Association and National Golf Car Manufacturers Association, in noting the passing of the famed golf writer-publisher Feb. 12 in Fort Myers, Fla.

"Herb Graffis' contributions to

golf can not be measured," said Dr. Joseph F. Beditz, executive vice president and acting president and CEO of the NGF.

Bob Rickey, executive secretary of the GWAA, added, "He was interested only in furtherance of the game of golf."

Rossi, who served as executive director of the National Golf Foundation from 1970-1984, said, "Graffis was the best friend I ever had in golf. From the day I took the job he acted as my godfather..."

"I talked with him at least twice a week for the past 10 years. He'd

'In my book, he was the greatest man this industry will ever see.'
— Don Rossi

guide me when I came up with a crazy idea."

Herb's brother, Joe, NGF president when it was Chicago-based, huddled every Tuesday with Rossi. "The greatest experience of my life was being associated with those

two," Rossi said. "When I was wrong they'd let me know. When I was right they were in my corner all the way," said Rossi.

"One of the last things we did together was a slogan. I sounded out Herb with 'Golf Makes America Beautiful.' He countered, 'No. Make that "Golf KEEPS America Beautiful."'"

That's now copyrighted by the USGA Green Section.

"When he founded the NGF he told the manufacturers, 'Golf's got to grow and you guys can help it grow.' The manufacturers taxed themselves on the shafts and golf balls. That funded the NGF for years," Rossi said.

"No one who ever knew Herb—and he knew everyone in golf—will ever forget him."

"Herb Graffis was a second father to me," said Rickey.

Graffis' golf writing led to his induction into the World Golf Hall of Fame in 1977, the first sports writer to be so honored. He also received the PGA of America's first-ever Distinguished Service Award in 1988.

Honors in abundance embarrassed Graffis. "It was almost impossible to compliment him," recalls Rickey.

Rickey cited their contacts in recent months as evidence of Graffis' intense devotion to all aspects of golf. Once weekly, Rickey would send Graffis a tape recording of the game's latest developments.

Graffis, legally blind, would reply by phone. His picturesque comments were as insightful as they were colorful. "Has anyone thought of doing this?" he'd venture, or "How does this sound?"

Almost to the day of his death, this frail, desperately ill gentleman was trying to contribute to the game he loved. His chief concern was how the game would fare perhaps 20 years after his death.

On a personal note, Rickey has especially poignant memories of Graffis. He grew up with Herb's son, Bill, like his dad a brilliant writer. Bill died at age of 50.

"My wife, Wanda, who died six days before Herb, was ailing. I didn't want Herb to find out and add to his worries, but someone, probably old golf writing pal Oscar Fraley, tipped Graffis. He'd call frequently to inquire, 'How's my girl?'"

The NGF honored Graffis in 1977 with creation of the Herb Graffis Award. It's presented annually to recognize "longtime and outstanding contributions in preserving the true spirit of the game; specifically as it was meant to be: for recreation, good fellowship and health.

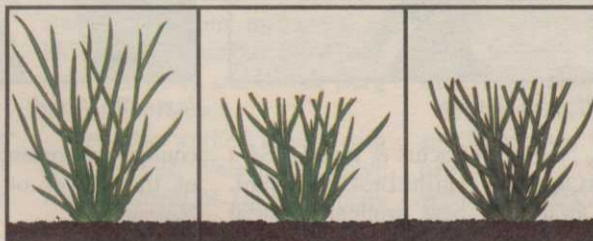
Graffis himself received the award in 1983.

Many major golf organizations, including the Golf Writers Association of America, which he founded and served as president, can trace their origins to Graffis' early spadework. His golf roots ran deeper than any man's, and spanned most of this century.

This is where perfect lies start on your fairway. New Cutless 50W from Elanco.

Unlike other turf growth regulators, new Cutless doesn't stop the development of warm and cool season turfgrass. Instead, it reduces or slows your turfgrass's growth rate by shortening the internodes of the growth stem with no adverse effects on their roots. The result is improved turf quality and more playable fairways.

With Cutless, your turfgrass appears thicker and stronger for a denser, more consistent playing surface. Golf balls just naturally sit up better.



1. Sprig of grass in normal state.
2. Seven to 10 days after Cutless application, mowed sprig sometimes exhibits slight discoloration of treated area and leaf tip browning.
3. Growth reduction peaks between third and eighth weeks, accompanied by darker green coloration and increased tillering.

Don't just take our word for Cutless. Take it from Scott Niven:



Scott Niven
Superintendent, Stanwich Club
Greenwich, Conn.

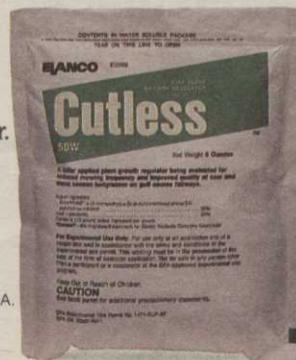
"I've reduced clippings 30 to 50% when we mow fairways. My guys don't have to empty the baskets as much, so we save time and money on labor. But I think the best advantage is the reduction in the amount of water you have using Cutless. It's a marked difference.

"Initially, you get so little discoloration with Cutless that a golfer would never notice it. But after 4 weeks, the difference was between night and day on how dark green the Cutless turf was.

"Cutless helped us convert from 80% Poa annua to over 95% bentgrass within five years. But I'm just as impressed with how Cutless creates a much thicker turf. It makes the grass as tough as nails, helps the ball sit up higher for our golfers."

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Cutless also reduces your water use, resulting in less turf wilt. And lower irrigation costs.

But Cutless does more than that. Much more. It also gives your turf a rich, darker green color.

Because Cutless-treated grass grows at a slower rate, there's also a dramatic reduction in clippings. Up to 50% less. With less mowing frequency. Also up to 50% less. You not only save time and labor costs, you

can also manage your hard-to-mow areas more efficiently.

Here's another added benefit with Cutless. As your turfgrass grows up thicker and more competitive, there's less room for troublesome weeds to interfere. Cutless also helps crowd out *Poa annua* for conversion to a more desirable turfgrass such as bentgrass.

GCSAA honors Skogley, Brandt, others

Researchers, superintendents, golfers join those garnering organization's citations

The Golf Course Superintendents Association of America has presented Distinguished Service Awards to James W. Brandt and Dr. C. Richard Skogley, its Leo Feser Award to Sherwood A. Moore and the Old Tom Morris Award to Juan "Chi Chi" Rodriguez.

The GCSAA honored the men at the 60th International Golf Course Conference and Show in February.

Brandt, a past president of the GCSAA, recently retired after 35 years as superintendent at Danville Country Club in Illinois.

A graduate of Oklahoma State University, Brandt earned a master's degree from Purdue University. He was an officer of the Indiana GCSA and the Midwest Turfgrass Foundation and helped organize the Central Illinois GCSA, serving as its president for five years.

Brandt also was one of the founders of the Illinois Turfgrass Foundation, which was instrumental in starting the turfgrass program at the University of Illinois.

Skogley is a professor of turfgrass agronomy and a turfgrass researcher at the University of Rhode Island, where he earned bachelor's and master's degrees. He earned his doctorate from Rutgers University.

Skogley has focused on management and plant improvement in his research, and has spoken at many seminars on such topics as bentgrass species and varieties for golf turfgrass.

An honorary member of New England area golf course superintendents organizations, Skogley has served as a chapter newsletter editor and on GCSAA national committees.

The Leo Feser Award, presented each year for the best-written article by a GCSAA member for Golf Course Management magazine, went to Moore for his May 1988 article "The Wisdom of Experience."

A past president of GCSAA and long-time contributor to the magazine, Moore said, "I am quite surprised and honored to receive this award. I feel fortunate to have been a friend of Leo Feser. It is an honor to accept an award named after such a great individual."

Rodriguez was honored for his work with disadvantaged children at the Chi Chi Rodriguez Youth Foundation in Clearwater, Fla.

Presenting the award, GCSAA outgoing president John A. Segui said, "Mr. Rodriguez has truly demonstrated the characteristics so commonly associated with Old Tom Morris. He has dedicated his life to promoting the game, but more so, he has dedicated his life to helping his fellow man."

Rodriguez, who has a dozen Senior Tour victories, said, "My greatest victory is when one of my kids gets a college degree. Golf is only a means by which to help others."

Old Tom Morris was a greenkeeper, club and ball maker, golf course architect and golf professional who won four British Open championships between 1861 and 1867.

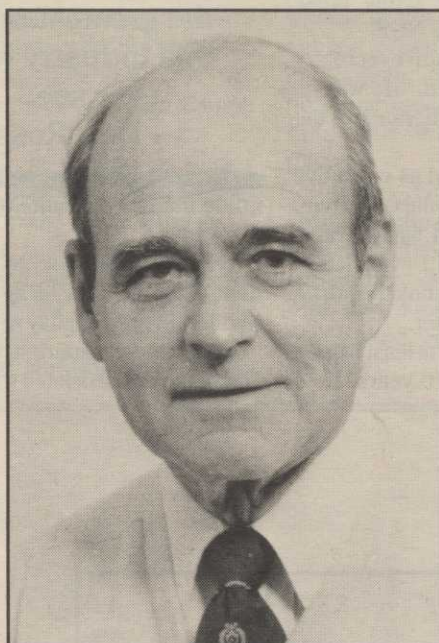
Newsletter awards

The GCSAA also honored editors of six outstanding newsletters.

The Best Overall Award for 16 pages or more went to Monroe S. Miller for the Wisconsin GCSA's "The Grass Roots."

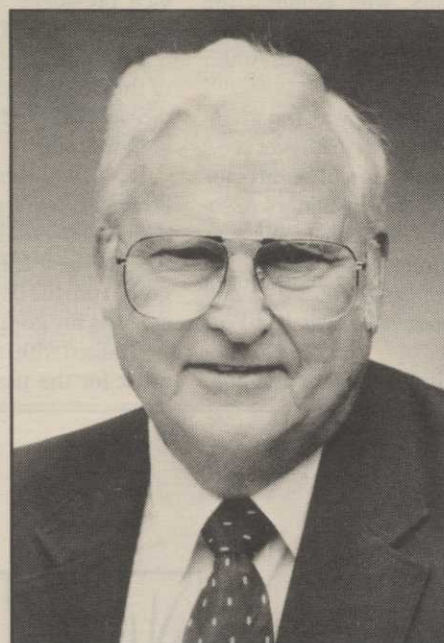
The Best Overall Award for 16 pages or fewer went to Ilona Gray for the GCSA of New Jersey's "The Greenside."

The Best Cover Award was won by Dan Jones of the Florida GCSA's "The Florida Green."



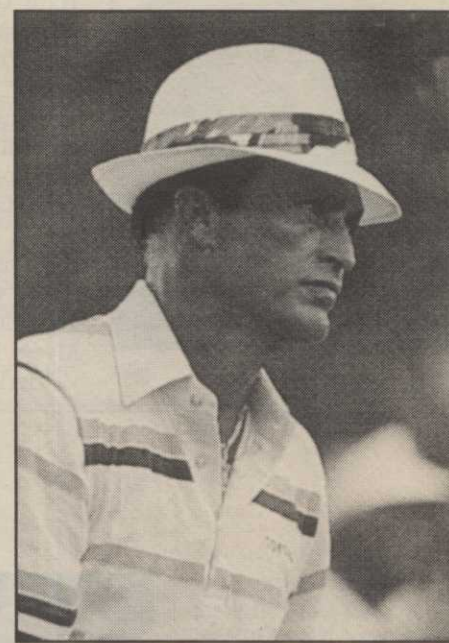
Dr. C. Richard Skogley

Linda Nogalo of Cactus & Pine GCSA's "Cactus Clippings" won the Best Flag Award. The award for best original editorial



James W. Brandt

content was presented to Ronald W. Kirkman of the GCSA of New England's "The Newsletter."



Chi Chi Rodriguez

Dr. Richard Duble of the Texas Turfgrass Association's "Texas Turfgrass" was given the award for best format and readability.

Past winners of the GCSAA awards

Old Tom Morris

1988 — Gene Sarazin
1987 — Robert Trent Jones Sr.
1986 — Patty Berg
1985 — Gerald Ford
1984 — Bob Hope
1983 — Arnold Palmer

Leo Feser

1988 — Sherwood Moore
1987 — David E. Hassel
1986 — David C. Harmon
1985 — Theodore W. Woehrle
1984 — Jerry W. Redden
1983 — Gordon C. Witteveen
1982 — Louis E. Miller
1981 — Paul N. Voykin
1980 — Donald J. Pakkala
1979 — Oliver Miles
1978 — Dan Jones
1977 — James M. Hildebrand
1956 — Tom Dawson Jr.

Distinguished Service

1988 — Dr. Jack Butler
William B. Davis
Dr. Kenyon Payne
Eberhard Steiniger, CGCS
1987 — Dr. James R. Love
David S. Gourlay Sr.
1986 — Andrew Bertoni
John B. Steel
Howard Kaerwer
Chester Mendenhall
1985 — James L. Blackledge
William C. Campbell
Clifford A. Wagoner
1984 — Warren A. Bidwell
Keith Nisbet
1983 — James B. Moncrief
Dr. Joseph Troll
Dr. James R. Watson
1982 — Milton J. Bauman
Sherwood A. Moore
Alexander M. Radko
Ben O. Warren Jr.

1981 — Geoffrey S. Cornish
Dr. Ralph Engel
Hans C. Schmiesser
1980 — Manual L. Francis
Dr. John Madison
1979 — Dr. C. Reed Funk
1978 — Dr. Roy L. Goss
Dr. John C. Harper II
Arthur A. Snyder
1977 — Harold W. Stodola
Paul E. Weiss Sr.
Robert M. Williams
1976 — Dr. Joseph M. Duich
Leo J. Feser
Thomas C. Mascaro
1975 — Dr. William H. Daniel
Raymond H. Gerber
Dr. Fred Grau
1973 — Walter R. Boysen
1964 — Theodore W. Woehrle
1961 — Dr. Jesse H. DeFrance
Eugene Marzalf
James Smith
1960 — Joseph C. Dey Jr.
Helen F. Lengfield
Oyvind J. Noer
1959 — Dr. John Monteith
Oyvind J. Noer
Richard S. Tufts
1958 — Dr. Glenn Burton
Professor L.F. Dickinson
Malcolm R. McLaren
Professor H. Burton Musser
Joseph Valentine
1957 — Thomas Dawson Jr.
Herbert Graffis
1954 — Dr. Fred V. Grau
1952 — Oyvind J. Noer
1941 — Frank W. Ermer
William H. Johnson
1940 — Colonel John Morley
1935 — John MacGregor
1932 — Colonel John Morley

1986 — Riley L. Stottern
1985 — Eugene D. Baston
1984 — James W. Timmerman
1983 — Robert W. Osterman
1982 — James A. Wyllie
1981 — Michael R. Bavier
1980 — Melvin B. Lucas Jr.
1979 — Charles H. Tadge
1978 — George W. Cleaver
1977 — Theodore W. Woehrle
1976 — Richard W. Malpass
1975 — Palmer Maples Jr.
1974 — Charles G. Baskin
1973 — Clifford A. Wagoner
1972 — Robert V. Mitchell
1971 — Richard C. Blake
1970 — Norman W. Kramer
1969 — John J. Spodnik
1968 — James W. Brandt
1967 — Walter R. Boysen
1966 — Edward Roberts Jr.
1965 — L.R. Shields
1964 — David S. Moote
1963 — Roy W. Nelson
1962 — Sherwood A. Moore
1961 — L.E. Lambert
1960 — James E. Thomas
1959 — Elmer G. Border
1958 — Robert M. Williams
1957 — Paul E. Weiss Sr.
1956 — A. Ward Cornwell
1955 — William Beresford
1954 — Norman C. Johnson
1953 — Leonard J. Strong
1952 — Malcolm E. McLaren
1951 — William H. Johnson
1950 — Ray H. Gerber
1949 — Carl A. Bretzlaff
1948 — Chester Mendenhall
1946-47 — Marshall E. Farnham
1941-45 — Harold W. Stodola
1940 — John Gray
1939 — Frank W. Ermer
1938 — Joseph Ryan
1937 — John Quail
1936 — John Anderson
1935 — Fred A. Burkhardt
1934 — W.J. Sansom
1933 — John MacGregor
1926-32 — Colonel John Morley

Past presidents

1988 — John A. Segui
1987 — Donald Hearn

George Toma does Super (Bowl) job on turf

BY VERN PUTNEY

Sports Illustrated dubs George P. Toma "The Nitty Gritty Dirt Man," but the head of field operations at the classy Arrowhead Stadium and Royals Stadium at the Harry S. Truman Sports Complex in Kansas City, Mo., does a Super job.

Super as in Super Bowl.

He's supervised the setting for all 23 Super Bowls. Plus four Pro Bowls.

His handiwork is the first view for anticipating millions as the stage is set for perhaps TV's greatest sports attraction.

Toma takes a workmanlike approach to what he believes is his sole responsibility—providing the athlete with the best possible playing conditions—something golf course superintendents can identify with.

To cope with the variety of elements encountered, Toma and associates have developed what is called "Super Bowl Grass." The grass is a combination of Derby, Regal and Gator Rye. They complement each other. Derby and Regal harmonize with 70- to 90-degree weather, while Gator can contend with the cold of Canadian climes.

PAT in football stands for point-after-touchdown. In the turf trade, it's the abbreviation for "Prescription Athletic Turf." This type of playing surface has given Toma four field headaches.

When Super Bowl grass was put over PAT sod at Chicago's Soldier Field in August 1988 to prepare for a pre-season game, roots didn't take. It looked like a land mine had exploded there.

Toma and Jim Dugan, supervisor with the City of Chicago Parks District, cut out a two-inch strip 60 feet wide from goal post to goal post, and resodded. Four nights later, the Chicago Bears and Los Angeles Raiders played in presentable footing. Not one piece of sod came up during the game.

While PAT has been a difficult problem, Toma believes improvement will follow product modification.

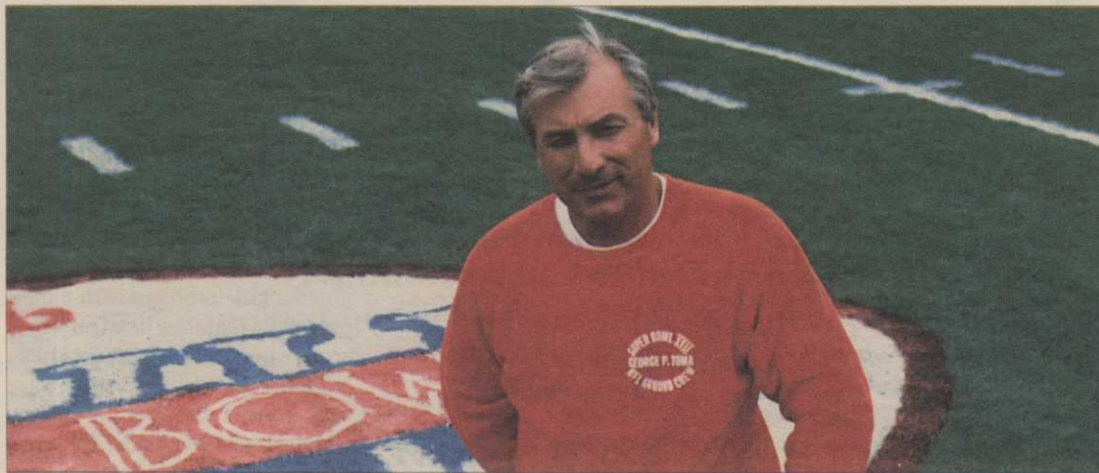
Toma has experienced a couple of near-calamities in California.

He recalls with pride "The Miracle of Jack Murphy Stadium."

That San Diego site was barren of grass. That situation was overcome in 25 days and nights of loving labor. It was a good field but needed overhaul desperately. Pregerminated grass was soaked and resoaked. The field was seeded 25 days before the scheduled playing date. Topdress, water and spray followed. Voila!

Then there was the swirling Candlestick Park controversy in 1981 at San Francisco. Mayor Diane Feinstein and City Hall officials had been under intense pressure for a field that resembled a disaster area. Her Honor, termed by Toma "General Patton," donned hip boots, entered the stadium work force and turned around the deteriorating situation.

"The City by the Bay"



George Toma stands in front of one of his fields.

celebration knew no bounds when Dwight Clark clutched Joe Montana's last-second pass for a division playoff title preliminary to a Super Bowl crown.

In Toma's book, the Candlestick grounds crew members also were world champions.

Some other game preparations have not gone smoothly, despite the pleasant-to-the-eye product the camera conveyed.

Last December, for instance, 60 million British Thermal Units (BTU) were required to heat Soldier Field for the divisional playoff game.

In 1969, the year the Kansas City Chiefs defeated the Minnesota Vikings in the Sugar Bowl at Tulane University, there was no grass on the field. Wood chips and sawdust were used. Shavings were painted green.

And how about the media menace? Try sprucing up the field, painting the goal posts and other workaday chores on a Tuesday while up to 2,000 members of the press scurry for stories and try to line up pictures.

Wednesday through Friday, as Toma huddles on the field with those involved in pregame and

halftime activities, footballs are flying overhead.

Thankfully, Toma has excellent working relationships with such standout stadium managers as Rick Neff at Tampa Bay; Bill Wilson at Jack Murphy, and Connie Burg at Aloha in Hawaii.

He's also worked closely with Dr. James R. Watson, executive vice president of Toro Company who is, according to Toma, "the greatest agronomist I know."

Supers a special breed

Of golf course superintendents, Toma says, "They are a special breed."

He accompanied Dale Sandin, groundskeeper at the Orange Bowl in Miami, Fla., to an evaluation proceeding in Miami. City Hall sentiment seemed to be that "all Sandin does is cut grass."

Toma interjected, "How about considering these attributes? Farmer, course babysitter, doctor (diagnosing the best grasses); pharmacist (remedies for unwanted grasses); mechanic, gas station overseer, plumber, machinist, supply clerk, paymaster and paymaster—among basic duties of golf course superintendents."

Sandin then was seen in a different light.

Further relating to superintendents, Toma observed that the true test of value is an ability to obtain maximum results from money allotted.

He cites success of Dr. Watson and Toma's son, Chip, in building two fields for \$25,000 each at William Jewell College in Liberty, Mo. They have absorbed up to 4.75 inches of rain a day without practice shutdown, Toma noted.

The NFL Kansas City Chiefs use the fields for six weeks, the college and Liberty High School the remaining period. After seven years, the fields referred to as the "Chip Toma-Dr. Watson Milk Shakes" are in excellent shape.

Though he's in a business paralleling course supers, Toma admits knowing little of golf.

The Edwardsville, Pa., native, now 60, plucked tomatoes, not golf balls, as his first job. Pay was 10 cents an hour.

A neighbor, groundskeeper at a nearby baseball field, was his next employer. When famed baseball entrepreneur Bill Veeck bought the franchise, he named high school senior George as field supervisor.

"I didn't know blue grass from rye grass," confesses Toma.

He learned quickly, thanks to apprenticeship under turf legend Emile Bossard at Cleveland from 1948 to 1950. Toma rose rapidly up the baseball ladder, from Wilkes Barre, Pa., to Buffalo, N. Y., to Charleston, W. Va., then to Kansas City, a post Bossard advised against because of harsh growing conditions there. Toma's dealt nicely with flood and baked conditions since Nov. 1, 1957.

Offers abounded

While weaving his way through baseball's path to the major leagues, Toma turned down flattering offers from such as Detroit slugging great Hank Greenberg, then Tiger general manager, and a dozen major league stadium officials.

Most tempting, perhaps, was the pitch of New York Yankee players Tony Kubek, Bobby Richardson, Moose Skowron and Hank Bauer. "Come over to us," they chorused. "Not only will we guarantee you a World Series share, but we'll pay your dollar a day fare over the George Washington Bridge."

Appealing as that last sweetener might have been, Toma pled preference to remain a small town boy. He's comfortable in KC.

However, what cosmopolite is as well traveled? After the Super Bowl, Toma winged his way to Hawaii's 80 degrees for the Pro Bowl. Then it was back to KC and two days of a chill factor of minus 17 degrees. The overcoat didn't get a decent fitting before spring training with the Kansas City Athletics at Orlando, Fla., beckoned.

Return to KC to prepare for the baseball-football seasons came in late March.

Soon, it's Super Bowl time again. Not a bad routine.

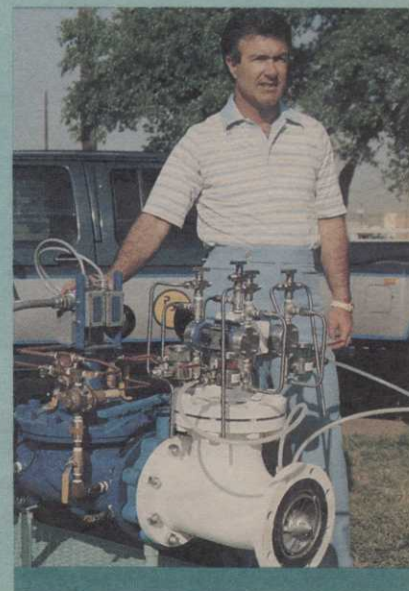
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PGA Golfer Marty Fleckman demonstrates the PSI Fertigator.

Surviving and prospering in the dead

BY VERN PUTNEY

Except for two weeks early in February, when Alaska's Arctic grip returned America's northern states to harsh reality, golf course owners and superintendents gained pleasant reprieve last winter.

Less snow and chilling rain meant more playing days and more bearable maintenance working conditions than normal.

Not that all equipment and course care was a breeze.

Cheyenne (Wyo.) Country Club course superintendent Frederick J. David would welcome moisture.

"We're real dry, and we could use the snow in our ski-golf seasons setup. This unusual winter has meant little skiing," David said. When temperatures go above 42 degrees, he and two aides water the greens and tees.

Equipment repair accounts for 90 percent of David's winter maintenance. Topsy-turvy weather conditions also sometimes trick

gophers into earlier spring appearances.

Elkhorn Country Club in Sun Valley, Idaho, had ample snow cover — more than three feet to accommodate cross-country ski trails. Ken Huring of course superintendent Larry Bauman's staff noted a little problem with moles, but added that they head for waste areas when summer approaches.

Before the Alaskan cold wave sent a mass shudder across the country's northern tier, the novel

winter experience was enjoyable. Peter Freidel of Coronado Golf Course in Hot Springs Village, Ark., recalled days in the high 60s before the "Big Blast" sent thermometers plummeting near zero.

Freeze-thaw-freeze

"Ordinarily, December through February is our cold period, but this winter largely has been mild freeze and quick thaw," Freidel said. "Our course often is playable, but not always comfortable. We'll gladly accept the weather bonus, even if it means more mowing to combat bee nests in the summer.

International Falls, Minn., grabs media attention as the nation's harshest icebox, but at least two owners of golf courses slightly north and west would argue that dubious distinction.

"It's as cold or colder at Warroad Estates," declared Lee Leach through teeth chattering from a minus 45-degree day. "Especially if one dared venture out to one of our wind-whipped holes. Not all of our 18 holes are tree-protected."

Dan Fabian of Oakcrest Country Club in Roseau shares Leach's frigid view. "The wind-chill factor is numbing, and there seems to be little letup in snow."

Both Warroad and Roseau are about five miles from the Canadian border. Fifty percent of Warroad's daily play comes from Canadians.

Leach wears many hats (in the winter, fur-lined) as owner, manager, superintendent and professional. His is a family operation, and he's able to farm out course chores to wife Jan, sons Guy, 22, and Rick, 17, and daughters Connie, 19, and Janna, 13, as play gets heavy in April when winter-weary enthusiasts shed skis and parkas.

Entering his fourth season at Warroad after pro posts at Abbey Springs in Fontana, Wis.; Bristol Oaks in Bristol, Wis., and Hunter Country Club in Richmond, Ill., Leach must do things differently because playing time is a month less in both the spring and fall.

Somewhat offsetting the short season is summer playing opportunity. It doesn't get dark until nearly 10:30 p.m.

Tarpaulins an answer

Leach has eyed with keen interest the new tarpaulin-like snow covers for greens. Snow fences help control snow mold.

Equipment maintenance, course improvement, and preparing and mailing of club promotional material help the family partnership pass the long winter.

Like Leach, job description of Little Falls Golf Club superintendent Douglas F. Veillette runs the full gamut. There is no club pro at the 18-hole municipal course located in the center of the state.

Veillette stocks the pro shop, sets clubhouse policy for the 10-12 summer employees and meets with the advisory board to define strategy.

When winter comes, Veillette concentrates on greens safeguard.

Equipment repair accounts for 90 percent of course superintendent Frederick J. David's winter maintenance at Cheyenne (Wyo.) Country Club.

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of a long winter with spring far off

He feels this past winter's abundance of snow is better for green survival chances than last year's open winter.

"Dessication is the major problem," Veillette said. The Little Falls season usually runs from the second week in April to the second week in November.

"If there is no snow cover, greens start to grow in the spring; but if there is a cold snap, greens can be hard hit," Veillette said. "Plentiful snow can mean snow mold, but that can be dealt with through proper treatment."

The season perhaps is two weeks shorter on each end for Double Eagle Golf Course in Eagle Bend, in central Minnesota.

Steve Weibye, whose brother Ron owns the course, believes there was enough snow this winter to form a protective blanket over greens and avoid frost-line problems.

Maintenance can be minimal. Double Eagle's 18 reversible holes span just 80 acres. The 5-year-old layout last summer suffered from lack of rain. Water pumps worked overtime, but nature appears to have provided needed moisture this winter.

Tee boxes and landing areas

Tee boxes and landing areas had Weibye's maintenance attention just before he took off for a golfing vacation and visit with his dad in Texas.

Don Tolson has no great maintenance worry at Yellowstone Golf and Country Club in Billings, Mont. For the 28th straight month, the 18-hole championship course a bit south of the Big Sky State's center was playable part of the time.

We're very fortunate as to location," Tolson said. "The Yellowstone River runs through this area, set in a valley. The Chinook winds are an ally. They're usually above freezing and melt the snow. We may close a few days because of snow, but not enough to keep us from year-round operation."

Tolson has three aides and administers an annual budget of \$250,000-\$300,000, including capital. Considered large by state standards, this outlay provides continuing course improvement, Tolson said.

During winters, Tolson and a mechanic concentrate on machine maintenance indoors.

Fifty miles south of British Columbia lies Sudden Valley Golf and Country Club in Bellingham, Wash.

Course superintendent Bryan Newman said the 18-hole links — part public, part private and part resort — largely remains open year-round. "Should snow and rain combine forces for a few days, there might be brief course closing."

That time is welcomed by the maintenance staff. "It's a great opportunity to go over the course, bring in and paint outside fixtures and overhaul and tune up machinery," said Newman.

"We're fortunate to be on the west side of the Cascade Range which splits the state. Eastern region courses in much the same latitude, such as in the Spokane area, must shut down for up to three months. We're real wet, but playable," said Newman. Sudden Valley weathered the Alaskan blast nicely.

On the other side of the United States, in more chilly conditions, golf comes to a standstill. The course superintendent simply shuts down course machinery and hibernates until early April.

Such is the situation for Floyd Sullivan, for the past 35 years superintendent at Aroostook Valley Country Club in Fort Fairfield, Maine, whose pro shop is in the United States while its clubhouse is 50 yards away but in New Brunswick.

'If there is no snow cover, greens start to grow in the spring; but if there is a cold snap, greens can be hard hit. Plentiful snow can mean snow mold, but that can be dealt with through proper treatment.'
— Douglas Veillette
Little Falls Golf Course, Minn.

AVCC's 18 holes are open from mid-April to mid-October. The remaining time, the course which is solely in Canada rests in the hand of nature which, Sullivan said, hasn't dealt too severely with AVCC over the years. "If we get too much rain early, ice buildup can follow and be damaging," he said.

Massachusetts doesn't lose many days to snow and hail. A blockbuster of a storm in late February changed things a bit along Cape Cod.

"Twenty or 30 members like to play weekends, despite restriction to temporary greens," noted Dick Zepp of Whitinsville Golf Course. "We can work around them, overhauling machinery, clearing brush and trees and adding to area accessibility."

The snow covers for greens, gaining in popularity, are a help, said Zepp, the president of the Golf Course Superintendents Association of New England. "When winter is open but there is a deep frost, broken irrigation lines can be a problem.

"Whatever winter and spring bring, the damage can't be worse than last summer's nightmare," declared Zepp. "Greens in particular and the course in general took a frightful beating from the combination of humidity, unrelenting rain and excessive heat Bay State courses received their worst beating in 30 years. I hope it will be another 30 before nature goes on another rampage."

New York State, like New England, basked in its mildest winter in history.

Dick Perry of Foxfire Golf and Tennis Club in Syracuse, in the heart of the snow belt, welcomes the disappearance of white downfall, but admits many members are pressing for early re-opening. Foxfire usually closes around Thanksgiving and projects mid-April opening. The last two springs, play has begun March 25.

Perry is enmeshed in a three-year drainage program: "3,000 feet last fall and 9,000 to go."

His winter projects include painting tee markers and flagsticks.

Unlike Perry, Jim Masseth of (not so) Chili Country Club in Rochester was concerned with lack of snow. "Without it, we're hurting for water," he said.

Robert A. Haskins of Soaring Eagles Golf Course in Horseheads, due south of Rochester, at the moment isn't worried about the water table.

"We're a public course. We close from Dec. 1 to April 1, not because of the weather but because there are not enough players to justify staff cost," he said.

Animal pests

Haskins said he is fortunate to have escaped the mole nuisance at times plaguing neighboring courses, but expects to do battle with skunks next summer.

"They're damaging to fairways as they dig for grubs," he said. "The overly abun-

dant geese prevalent in 1987 didn't return last summer, and the few deer imprints on greens are easily repaired."

The mole cricket insect is occupying the attention of Thomas Sizemore at Brooksville (Fla.) Golf and Country Club.

This pest, transplanted into the United States, probably was at its worst last summer at Brooksville. The mild winter didn't help Sizemore's fight plan. "If it's a cold winter," Sizemore explained, "the mole cricket will go deep. Current warmth means early emergence."

Chuck Poole and his 32-man crew at the 36-hole Woodmont Country Club in Tamarac, Fla., haven't stopped mowing in the warmest winter in state history.

"We could use some rain and a dip in

mercury, he said. "And I haven't seen an alligator on the course. But the presence of one or two would liven things a bit."

Pat O'Brien, an aide to course superintendent J. D. Batten at Kings Crossing Golf and Country Club in Corpus Christi, Texas, in two years hasn't heard a peep out of or seen a whooping crane. Their winter headquarters are at nearby Arkansas.

They've never been a problem in O'Brien's 25-year area residence. Pat O'Brien, an aide to course superintendent J. D. Batten at Kings Crossing Golf and Country Club in Corpus Christi, Texas, in two years hasn't heard a peep out of or seen a whooping crane. Their winter headquarters are at nearby Arkansas. They've never been a problem in O'Brien's 25-year area residence.

Sandhill cranes can make too frequent an appearance, he noted. As with most Southern and Western courses undergoing dry spell, grass continues to grow and extra mowing is in vogue.

As the superintendents swing into spring, they're alert to weather variables and the effect on summer play. West, South and Midwest forces are braced for myriad conditions.

Along the East Coast, drought is their chief worry. April and May may bring unusual rain, but at the moment lack of moisture is a worry.

As one superintendent said, "It never rains but it pours when you contend with climate."

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Shoot the lights out!

Night golf takes hold across the country

BY VERN PUTNEY

Night golf no longer is a fantasy, and the light switch came none too soon, say many golfers who work 9 to 5.

The Nitelite ball, introduced in 1986 by Pick Point Enterprises in Mirror Lake, N.H., more for novelty than practicality, has been swatted in 19 countries and an estimated 5,200 tournaments.

The 4-inch lightsticks, placed on flagsticks, 150-yard markers and tees, are visible a half-mile away.

Next step probably will be installation of light poles at strategic locations, in the pattern of driving ranges.

What this would do to the work schedules of hard-pressed course superintendents, professionals and clubhouse staff is anybody's guess.

Certainly, it won't lighten the load. The few who might have thought of night play hadn't advocated it publicly. A 55-hour work week in season is sufficient.

Pick Point president Nelson F. Newcomb, a fine golfer, wasn't quite in the dark when asked about an illuminated golf ball. As a schoolboy, he'd painted a football with phosphorous, which gives off a white glow, to extend after-school playtime.

Still, the former St. Louis Browns baseball farmhand's initial response to queries from avid golfers was, "They don't play golf at night, do they?"

Not unless necessary, it seemed. Callers largely were twilight league golfers who tee off at 5 to 6 p.m., then race the clock, dusk and darkness.

The last few groups caught out on the course wanted a ball they could see to finish their round.

Largely to satisfy what Newcomb felt would be a minor market, he and his research staff huddled. Since they'd scored well with a lighted football a decade earlier, and had succeeded with a lighted whiffle

What night golf would do to the work schedules of hard-pressed superintendents, is anybody's guess.

ball, hockey puck and other sports equipment, the golf ball appeared worth a try.

First step was to drill three holes through a golf ball, then plug four of the six holes with a plastic substance that glows. Six points of a rapidly spinning ball would create the illusion of a completely lighted ball.

Alterating the ball would mean distance would be lost. The plus was that the ball wouldn't be.

Reaction was so enthusiastic that a whole new world of playing (and business) opportunity may have been ignited.

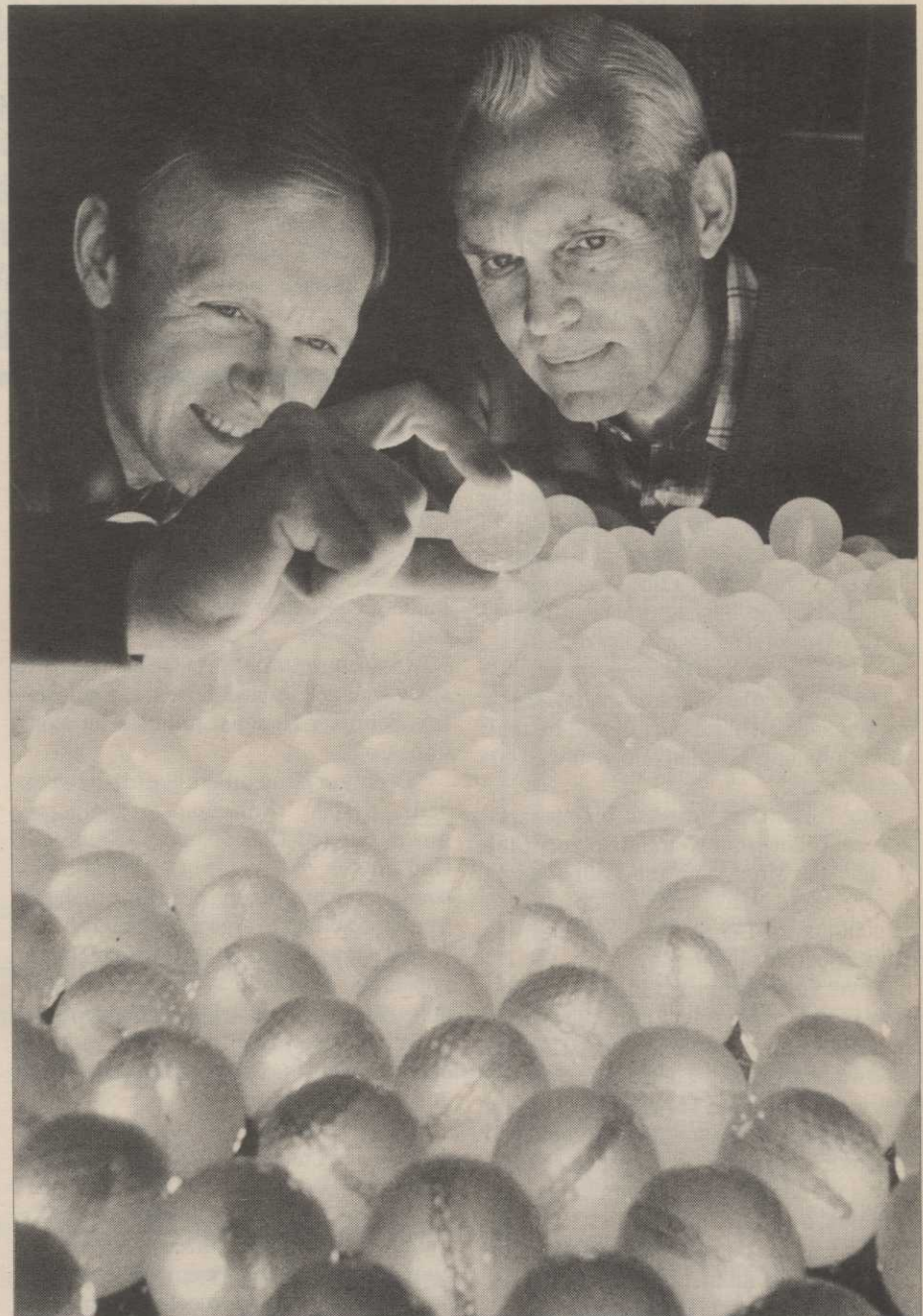
Further refinement is in the works for the ball which (with two nightsticks) sells for \$5.95 and has been bought quickly at golf shops.

"We're working on a ball we feel will be the distance equal of any on the market," Newcomb said. "The night ball is far removed from the novelty stage. However, we have no plans now to have the ball conform to USGA specifications. Because of nightstick insertion, acceptance may never be practical."

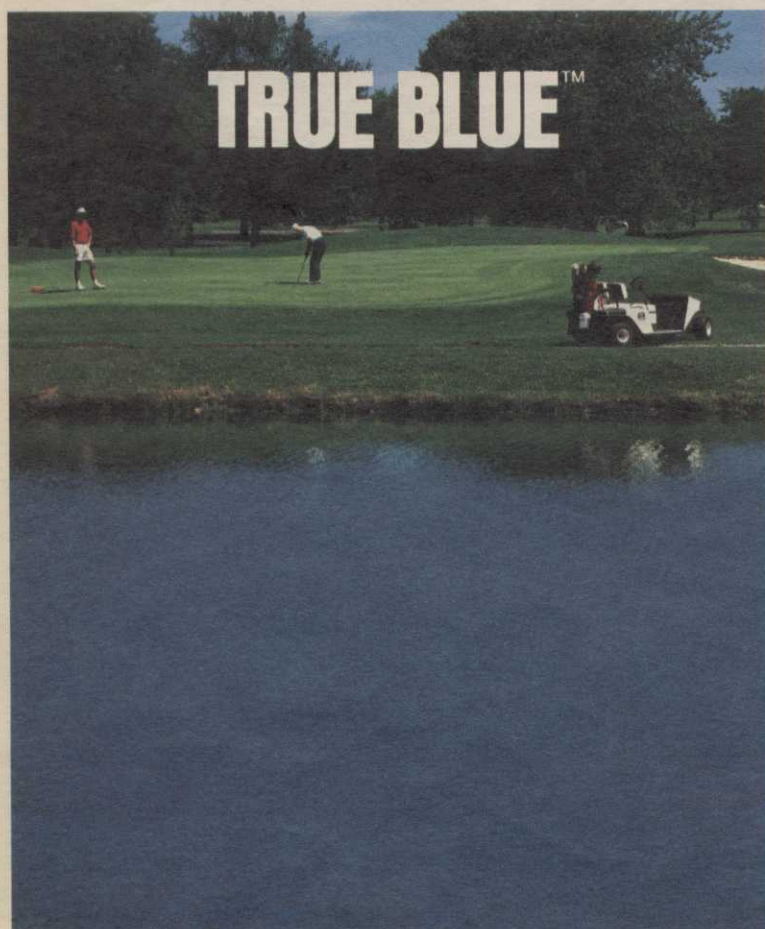
Pros tested the ball at the recent Professional Golfers' Association Show in Orlando, Fla., and consensus was that only about 10 percent of yardage was lost.

Therefore, it may have been more than curiosity that attracted sales representatives of major golf ball companies to the Pick Point booth. A glowing giant competitor may emerge.

Introduction of a Nitelite putter triggered eye appeal and its balance and feel drew favorable comment, but "The Ball" retained



Pick Point president Nelson F. Newcomb, right, and son Corky look over their invention, Nitelite golf balls, that may revolutionize maintenance and use of courses.



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the spotlight.

One booth visitor underlined the ball's most practical aspect. "In 1987," he recalled, "I held one night tournament. This jumped to four in 1988. This year I plan 30. This means \$500 extra per night in proceeds from greens fees, golf cars, liquor and lounge business. These events will increase my income \$15,000 a year."

Closest-to-the-pin and putting contests are other night features that require little manpower, are fun and are profitable.

A spokesman for Nevada Bob's, one of the nation's biggest discount golf outlets, reports "tremendous" interest.

"Nitelite has been our No. 1 accessory item since first shipment in the fall of 1987," said Dave Dyer, manager of Nevada Bob's in South Portland, Maine. "The ball has taken off, and it's tough to keep in stock. They're bought in lots by course officials and committee members staging nine-hole scrambles."

On display, no sales pitch is required, adds Dyer. Curiosity alone is enough to prompt investment.

Dyer, formerly a pro at several Maine courses, predicts the ball not only will light up the sky and fairway, but will revolutionize the game.

"Course supers and club pros think they work long hours now. Wait a few years!" he

Continued on next page

Craze turns on switch for 9-5 workers

from page 20

said. "I base this on the daily work force once shut out of the game and now, thanks to Nitelite, able to participate and enjoy a sport in which so many are involved.

"The course super and pro, or designated substitute, must be on hand to protect the course and conduct nocturnal business. This could turn out to be a 24-hour, seven-days-a-week operation."

Newcomb is more cautious in his assessment. "Still," he observed, "another 50,000 to 100,000 rounds annually can buy a lot of added staff and generate increased course profitability."

He noted that Nitelite play has found favor at convention sites. Executives cooped up in seminars during the day flock to the arclight action.

The manufacturer pointed out that the totally translucent illuminated ball is official size and weight, but acknowledged that that one or two clubs longer may be required when judging distance to the green.

lite ball in July 1987. Fifteen foursomes played 12 holes in four hours. Water holes were skirted. The ball was teed up all the way around.

Lee and assistant Doug Thompson have staged several night events since the program. Late-late evening golf is so popular that premium rates are charged to discourage all-night — and early-morning — play. Even so, it's hard to close up shop before midnight.

The inaugural Moonlight Pro-Am tourney last December at Boca Raton, Fla., Executive Country Club, won by Jean Guy Dumont, netted \$1,200 for the American Cancer Society.

A series of scramble events to benefit the ACS concluded with the NiteLite Nationals last October at Doral Country Club in Miami, Fla.

A tourney at Monroe, La., proved a fantastic fund-raiser, as did an event at Hickory Woods Golf Course in Ypsilanti, Mich. Course manager Jeff Fulton was worried

'Still, another 50,000 to 100,000 rounds annually can buy a lot of added staff and generate increased course profitability.'

**— Nelson Newcomb
Pick Point president**

The longest known drive is 310 yards by Scotty Baker, son of Jim Baker Sr., pro at St. Leo (Fla.) Golf Course. Scotty, 5-11 and 220, whales the regulation ball in the 375-yard range.

A Nitelite tournament at Arrowhead Country Club in Emmons, Minn., lured 1,500 players and there have been several tourneys at the Marriott Camelback in Scottsdale, Ariz. Ex-Sen. Gary Hart and Karsten Solheim, manufacturer of Ping golf clubs, paired for second place at 1 under par.

Billy Max, head pro at Colonial Country Club in Lynnfield, Mass., held a nighttime New England Pro-Wife tourney. Said Max, "The course looked like World War II with the balls shooting through the darkness like tracer bullets."

Billed as the first professional NiteLite tournament and dubbed "The Night Belongs to Michelob" in a bow to its sponsor, a Tournament Players Association four-hole event scored high in popularity last June at Urbana, Ill., Golf and Country Club. More are planned this year.

Richard Lee, pro at Hyland Hills Golf Course in Southern Pines, N. C., staged a Carolina PGA Section pro-am with the Nite-

that the last foursome wouldn't finish until daylight. Fortunately, it completed its nine-hole round at 5:30 a.m.

Bill Ridge, assistant pro at Bob-O-Link Country Club in Lawrenceburg, Ky., played 504 holes in a day — and night. He beat the old marathon record of 424 holes by starting at midnight and playing the first 17 nine-hole rounds with a NiteLite ball.

Owner Dick Harris put the finishing touch to his new Falmouth (Maine) Country Club course last Oct. 31 with a nine-hole scramble which he described as "fantastic, fun and a great social event."

"The darker the better," Harris said. "You can't lose the ball, the eyes adjust, it's a unique mix of people and party atmosphere, and its popularity is going to grow."

Harris wasn't the perfect host. He, wife Nancy, son Jeff and Laurel Myers scored a winning 1-over-par 37.

Golf enthusiast Karen Glidden, from the shop staff at Salmon Falls Golf Course in Buxton, Maine, was a quick convert to "Glow Ball."

Casting about for tournament ideas and increased member participation, she spotted the balls at Nevada Bob's. Dyer explained the variety of uses. Glidden received owner John Barber's approval to experiment. In late May, Glidden picked July 29 as the best tourney trial time — the night of a full moon.

The choice proved ideal. There wasn't a cloud in the sky. "The moon shining on the adjacent Saco River made a beautiful sight for the 45 scramble contestants starting play at 9:15 p.m.," she recalled. "All that was missing was the baying of the hounds. In their place was laughter and levity."

While applauding Glidden's enterprise, Newcomb echoes Harris' outlook — dimmer is brighter. "The blacker the evening, the better ball visibility," said Newcomb.

Golfers who once slipped out of the office early to get in a few holes before darkness, soon may be arriving at work sleepy-eyed. There may be many a suspicious look when they try to explain that they were up all night, not with the baby, but playing golf.

History repeats itself in new form near historical site

Mirror Lake, the home of Nightlite ball manufacturer Pick Point Enterprises, is about 75 miles from Lynn, Mass. The General Electric Co. baseball field there was in 1926 the site of the first organized night baseball game.

The next shining moment in sports history may have originated in this tiny New Hampshire town, population 1,500

Pick Point's future may never be as bright as GE's present, but president Nelson F. Newcomb takes pride in doubling of the company's work force since golf took over the night shift.

Foursome in '30s ahead of their time

Illustrating that there is little new under the sun — or moon — the retiring professional at Riverside Municipal Course in Portland, Maine, recalled participation in a night playing experiment there 50 years ago.

Frank Tirabassi, brother Americo and the late Charles Rounds and Roy Walker teed off at 9:30 p.m. Rounds had painted a half-dozen balls with phosphorus and induced the others to give

night golf a whirl.

All but Frank called off darkness play after three holes. Frank went the nine-hole route and scored a 4-over-par 40. His only trouble seeing the ball came on the short par 4 seventh hole. He took a double-bogey 6.

"I hit my second shot into a trap," he said. "The ball blended with the color of the sand. I couldn't distinguish, and needed two shots to get out."

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Continued from page 1

project back to the District 4 Commission for a decision, meanwhile outlining corrective steps to assure the project complies with regulations.

That move was a strong softening of attitude from the stance the board took Nov. 9. At that time, the board unanimously opposed further deliberations on the project.

But a groundswell of protest from Huntington area residents, banded as "Citizens for Huntington's Future," led to reconsideration — a review restricted to evidence on the record.

Truax and his associates in the project, which would embrace luxury condominiums, hotel, conference and sports center, theater and chapel, say the decision "can only be interpreted as a victory for the town of Huntington, citizens and Sherman Hollow."

Some more detached observers disagree. "This so-called favorable ruling has a hollow ring more attuned to Pyrrhic victory," said one skeptic. "It was obtained at frightful financial cost to developers."

Kenneth W. Pillsbury, a Huntington resident, former vocational agricultural teacher in Connecticut and close project follower, sides with that view.

"Apparently the board failed in what might have been the original goal: Stonewall the project long enough to discourage or abort it because of dwindling bankroll," said Pillsbury.

He pointed to a geological survey demanded by the board at an estimated cost of \$35,000. "That's nonsense, totally unnecessary," several geologists have informed Pillsbury.

Reginald Hathorn, until recently a Huntington selectman and long in the forefront of Sherman Hollow support, was more vehement.

"Truax was dealt a low blow," declared Hathorn. "If society — read that self-styled environmentalists — is permitted to make autocratic determination of a person's property and inflict financial hardship without comparable responsibility, where will it all end?"

"And when one person is threatened in such high-handed manner, all are threatened. Somewhere along the way, individual rights have been sacrificed to 'gang' mentality.

"It's becoming much more difficult to gain redress through the courts and judicial system, almost no way short of costly

litigation."

Hathorn expanded on what he sees as discrimination against developers.

"About 95 percent of single-home builders proceed undisturbed. Their septic tanks may be out of whack, but there isn't similar scrutiny, such as hawkish surveillance. When objection is raised, it's likely to be on far-fetched grounds."

Hathorn cited a recent home-builder's dilemma. "Halfway through the building process, a 'Save the View' cry went up. The builder was faced with costly adjustments.

"No self-respecting developer is going to take a second look at Huntington or, for that matter, Vermont, after Truax' harsh experience," Hathorn added.

Sherman Hollow isn't alone in the Vermont golf course battlefield.

Developers of the Tamarac Golf and Country Club had been pursuing permission to build 435 housing units in Stratton and Jamaica along with an 18-hole golf course and clubhouse.

Rather than being continually confronted by the District 2 Environmental Commission, developers scaled back to 180 housing units, all in Stratton. The clubhouse and the smaller part of the 18-hole layout would remain in Jamaica.

Several Vermont golf groups are concerned with such "compromise."

Golf course superintendents, PGA and amateur association officials, course builders and developers have been meeting monthly to create a united front to resist what they feel is a "divide and conquer" strategy.

Sherman Hollow made this statement: "The decision (to toss the ball back to the commission) is very disappointing in light of the continuing position of the board to disallow, ignore or overlook substantial testimony which Sherman Hollow had made part of the record. We feel strongly that, as the process exists, it is impossible to receive fair and equal treatment under the law.

"The decision also appears to set a precedent for many other types of projects, including subdivisions, industrial parks or anywhere turf is used. If equal treatment is applied, it could affect the price of low-cost housing, and may have the potential to place the cost of golf beyond the average Vermont golfer.

"The board has in effect said by its decision that the lay state Environmental Board will make technical decisions independent of the experts in the various state agencies. It also implied that Integrated Pest

Pest management crucial in future

Integrated Pest Management (IPM) is a relatively new term and tool in golf course terminology. Golf course superintendents may have used IPM practices the past 20 to 30 years, but such programs weren't titled.

Its suddenly important stature was spotlighted in the recent Vermont struggle between the state Environmental Board and would-be golf course developers. Home lawn care is addressed, but the regulations apply equally to fairways and greens.

Here's a rundown of its meaning and application from Dr. Richard J. Cooper and Professor Patricia J. Vittum of the University of Massachusetts:

- Turf Integrated Pest Management is an intensive maintenance program that uses cultural, biological and chemical methods to reduce the need for pesticides to control turfgrass pests.

- Time and rate of maintenance applications is most important to improving the health of your lawn and reducing pests before they threaten your turf.

- Healthy turfgrasses not stressed by drought, low fertility, etc., can outgrow pest activity more vigorously than a nutrient-starved, drought-stressed "anemic" lawn.

- Raising lawns according to the season by providing a well-balanced diet — and using the lawn mower — are keys to durable turfgrass lawn with little or no pesticide input.

- Lawn care in the spring will determine how well it will be able to tolerate summer insect and disease activity. Most turf pests are active as the weather warms up and lawns go drought-dormant.

- Disease and insect pest potential are present in every lawn, but they require specific conditions (weak grasses, desirable weather, etc.) to infest and devastate

a lawn.

- One crucial aspect of an IPM program is monitoring the area for pest activity. Normally, an expert is hired to check the area regularly and observe the level of weed, disease and insect activity. The expert then decides whether any corrective action is appropriate. This decision varies, depending on the level of pest infestation, the level of maintenance demanded by the homeowner, and the kinds of action the homeowner is willing to take.

For example, some insect populations cannot be controlled once they reach a certain state of development, so the only alternative is to provide optimum turf-growing conditions. This will enable the targeted area to tolerate some insect feeding without major effect on its vigor.

A pilot scouting program conducted by the University of Massachusetts in 1986 provided researchers with valuable information about the presence and prevalence of some turf pests and permitted concentration of research efforts.

- Turf IPM also includes appropriate watering practices and careful selection of turf species and cultivars.

- Some biological control agents that reduce the activity of the Japanese beetle occur in the Northeast. There is a bacterium which, when applied to the soil, can kill Japanese beetle grubs. However, some local conditions (soil temperature in the summer and winter, soil pH) appear to reduce the effectiveness of this organism.

An IPM program sometimes includes judicious use of pesticides. University researchers have conducted pesticide screening trials to identify materials most effective under a variety of conditions and identified proper application techniques for a variety of pests.

Management (IPM) can not be approved in Vermont. It is unbelievable that the IPM program, aimed at improving and protecting the environment, would be prevented from happening."

Adds Karl H. Deubert, University of Massachusetts professor:

"It is unfortunate when the presence or absence of pesticide residues (the original chief board objection to Sherman Hollow) is

used as a political weapon. Instant pesticide residue experts take advantage of hysteria caused by the mass media."

A final footnote to Sherman Hollow or, when it rains, it pours.

Because of the lack of snow, the resort never was open for skiing.

And what of board sentiment? A discreet silence. After all, it remains in the catbird seat, said one observer.

USGA

Continued from page 1

useful contributions to the game of golf."

Farmer, of Los Angeles, especially pointed to NuMex Sahara, a seed-propagated bermudagrass developed by Dr. Arden Baltensperger of New Mexico State University.

Common bermudagrass has been the only form of seeded turf-type bermudagrass in the world, but NuMex Sahara will be made available in August, according to Mike Hills of Farmers Marketing Corp. of Phoenix, Ariz., which is handling distribution of the seed.

NuMex Sahara is highly drought-resistant, is denser and lower growing than normal, has faster spring green-up than common, has a shorter internode, darker green color, reduced regrowth after clipping, and resistance to a bermudagrass stunt mite.

Although NuMex Sahara is not as fine-textured as many of the hybrid or vegetative-propagated varieties of bermudagrass,

it is less prone to scalping and thatch buildup, according to Baltensperger.

NuMex Sahara "has also proven to be an excellent seed-provider, which is important for the success of any new grass," Farmer said.

Baltensperger's research is one of many turfgrass projects supported by Green Section funds (\$600,000 in 1989 alone). Others are also producing results for golf courses.

Farmer mentioned that "several new and improved buffalograsses ideal for fairway use will become available in limited quantities this year.

"Developed by Dr. (Terrance) Riordan of the University of Nebraska, these buffalograsses have exceptional drought tolerance in playing surfaces," he said.

Creeping bentgrasses that withstand high temperatures, wear well, resist thatch development and have good commercial seed productivity are being bred, he said.



Marion Farmer

He also reported "a major breakthrough" with development of Zoysia grass that has "unbelievable ability to rapid recovery," and resists scarring and injury.

Farmer said the Green Section will play an important role in the continuing growth of golf.

"As you well know, the U.S. is experiencing a tremendous growth in golf course development and demand is not limited to this country," he said. "Germany, France, Spain and Italy all have intensive new course development underway... The Green Section has long played an important role in new course construction..."

"Today the Golf Course Builders of America and USGA Green Section have an opportunity to serve the game better than ever before, and on a worldwide basis.

"Golf will not only keep America beautiful," he said, referring to the Green Section theme, "but perhaps the world as well."

Much ado about nothing?

Animals, golfers have coexisted for 100 years

'Birds Gotta Fly, Fish Gotta Swim
If They're to Retain Vigor and Vim.'

OR

'How Little We Understand What Touches Off That Tingle
When Sudden Explosion of Two Forces Intermingle.'

BY VERN PUTNEY

Environmental experts have unearthed existence of two bear corridors in Vermont, adding "Bears need an undisturbed corridor, so that they can intermingle."

By strange coincidence, these corridors are smack in the middle of proposed golf courses in Tamarack and the Sun Bowl.

In recent years, state environmental

boards have advanced pesticide use or abuse as a deterrent to golf course developers.

The latest "buzzword," or roadblock, is "animals." Seems they must be protected at all costs



(to developers?) and no matter how glaring state regulatory inconsistency.

Suddenly a shroud of sanctuary has been thrown over the Vermont black bear, to be lifted only when hunters take up arms in November. For three weeks, the big, bad bear will become fair game.

Thereafter, it will revert to lovable "Smokey the Bear" status.

As those professing environmental protection and presumably as well-intentioned developers square off in this second round of course-building arguments in the Green Mountain State, wandering Bruin must wonder at his suddenly elevated importance. Is he worth such fuss?

Why such sudden spotlight on a beast which shuns human attention, a carnivore content to roam the woods and emerge in the wee hours to poke around garbage cans? Developers label this a contrived issue intended to throw a monkey wrench into course building. They contend environmentalists have clasped bears to their collective bosom more for the sake of convenience than true love.

Noted course architect Geoffrey S. Cornish of Amherst, Mass., recalls no bear-deer course problems during his boyhood in British Columbia, Canada.

"Bears positioned themselves near landing areas and would carry balls into the woods. A local rule allowed us to play another ball without penalty," said Cornish.

Cornish ranges as far as Banff Springs, high in the Canadian Rockies, in his work. "Man and most species seem to respect each other. Bear and elk have the right of



John Hawes has an observer as he prepares to blast out of a sand trap at Waterville (Maine) Country Club. Foxes have made a den in a sandtrap at the course

Photo courtesy of Gene Letourneau

way on the course," he observes.

The black bear usually is associated more with Vermont's neighbor Maine, but there the deer is under the publicity gun.

Developers seeking to build a course at Falmouth, in southern Maine, ran into deer preservation problems. A dozen deer had staked out acreage on part of a planned course.

Developers had tried to work with regional wildlife officials on an agreement that would permit golfer and deer to live in harmony, as has been the case on up to 100 Maine courses for almost a century.

State and federal officials entered the picture. The upshot was that 140 of the total 400 acres the course eventually embraced when opened the summer of 1988 became a deer yard.

Except to admit that cost of such tender treatment was "significant," developers haven't tallied and won't divulge dollar loss. Unofficial estimate is \$1 million. That makes each deer worth \$82,000. A dear price?

The state is expected to grab a nice chunk of revenue from hunting permits when 30,000 deer are killed with official blessing in November.

Perhaps there should be reciprocal agreement with New York State. Canada geese which were becoming a nuisance there were trapped and shipped to Maine.

David Canavan, immediate past president of the Golf Course Builders of America and

a University of Massachusetts classmate of Vermont Gov. Madeline Kunin, is somewhat mystified as to Maine's stand on deer.

"Granted, we've had a few fish and wildlife problems when seeking builder approval, but deer seemingly would fare better because of improved habitat. As for the current Vermont controversy, I'd have to see more bear facts to comment," quipped Canavan from his Moore Golf office in Culpeper, Va.

Wildlife and golfers don't always co-exist peacefully.

At Waterville (Maine) Country Club last summer, foxes and deer were downright distracting. One flailer blamed a fawn deer for his failure to break 100 for the first time. Searching for his ball in the rough, the player almost stepped on the fawn. The doe mother nearby blew a warning scream. The shaken golfer's score soared.

At least two sandtraps harbored fox dens. Pups frolicked in them or sunned themselves along the banks. "When you tee up and notice a fox staring at you nearby," said one golfer, "chances are you are going to slice or hook."

Other golfers were more practical. "They're hitting us in the pocketbook by stealing our golf balls," they complained.

Waterville CC's public relations head welcomed fox encampment because of national media attention. "In April I hired five foxes and they took it from there," he joked.

Gene Letourneau, whose Sportsman Say column has been a feature of Maine newspapers since 1946, quoted one vixen as saying she had got there first via homesteading and likely would stay and live in peace with golfers.

At most courses around the country, this live-and-let-live attitude prevails. At The Fountains Country Club in Lake Worth, Fla., many veteran club members objected to removal of a half-dozen alligators from the several ponds dotting the 54-hole complex. "They're part of the scenery and constitute no threat," they claimed.

Northerners sighed in relief when wildlife officials rounded them up and relocated them in the Everglades.

Jack Nicklaus has bagged more than his share of eagles and birdies, but dropped a decision to elk while developing the Arrowhead course in Boulder, Colo. Elk browsing on greens inflicted much damage.

Crane nests on 40 acres at Carlton Oaks Country Club in San Diego, Calif., couldn't be touched and added to problems for course architect Perry Dye.

No matter what the bear essentials show in Vermont, the costs won't approach the celebrated "snail darter" case.

After four years of delay on the \$116-million Tellico Dam project on the Little Tennessee River because the fish was the last of its species, the courts quashed the case. Capitulation came in October 1979.

Irrigation school opens

The Professional School of Irrigation has opened in Chantilly, Va., offering courses covering installation, design, sales and marketing, and trouble-shooting.

P.S.I., terming itself "a hands-on school specializing in training people," offers one- to two-week classes combined with extensive field training so students can practice what they learn in the classroom.

More information is available from Garry Brewer at 703-648-0020.

Major resort picks Weston

The Pickering Group has chosen Roy F. Weston Inc. to play a key role in creating a billion-dollar Victorian-style resort and conference center, The Resort at New Morgan, to be located in Berks County, Pa.

Weston was awarded a contract to provide services during the planning phase for the 4,200-acre center and the newly formed Borough of New Morgan. Weston's major responsibilities include functioning as comprehensive program manager for resort development.

Weston will assist The Pickering Group's representative in day-to-day integration, control and administration of all ongoing work at the site to minimize time and expenditures and maximize results and progress.

Weston will also be responsible for a solid waste system, the energy use plan; institutional, financial and legal planning and other developmental assignments.

Recreational facilities will include a golf course at the resort site.

Green Section signs on experts for conferences

April will be a busy month for the United States Golf Association's Green Section conferences.

First date is April 5, at Lakeside Country Club in Houston, Texas.

"The Most Common Mistakes Golf Course Superintendents Make" will be the topic of Jim Moore, USGA Green Section

director.

Seattle, Wash., Golf Club will host a regional conference site April 10.

Among subjects will be "The Superintendent's Relationship with the Green Committee," with Jeff Thomas, superintendent at Walla Walla, Wash., Country Club; "USGA Research: The Payback Has Only Begun," led by Larry Gilhuly, Western Region director from Tuslin, Calif.; "The Traps of Bunker Restoration and Construction," by John Steidel, golf course architect from Kennewick, Wash.; and "An Alternative to Golf Cars," with Gilhuly and John Ford, superintendent at Tacoma Country and Golf Club.

Dr. Tom Watschka of Penn State University's Department of Agronomy will speak April 11 at Oakmont, Pa., Country Club.

"Are the Pesticides We Are Using Contaminating Our Ground Water?" will be his subject.

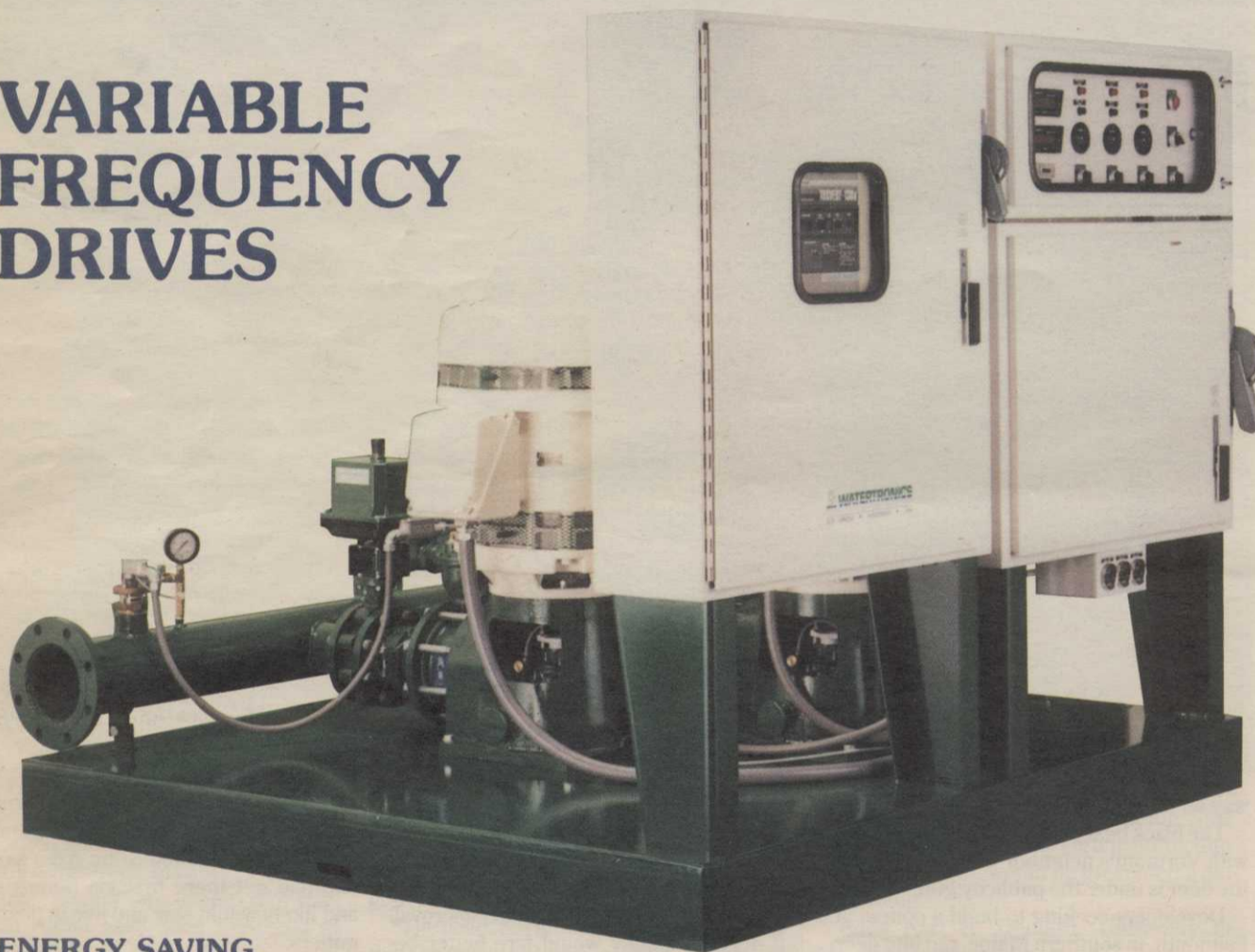
Conferences are scheduled April 20 at Troon GCC in Scottsdale, Ariz., and JDM Country Club in Palm Beach Gardens, Fla.

Arizona speakers and their topics include Tom Hoogheem of Monsanto Country Club in St. Louis, Mo., "Understanding Golf Course Environmental Issues"; Paul Vermeulen, agronomist from Tuslin, Calif., "Bunkers — A Superintendent's Hazard"; and Carla Sasso, contributing editor of Southwest Lawn & Landscape, Las Vegas, Nev., "Focusing on Future Irrigation Technologies."

Tim Hiers, golf course manager at John's Island Club in Vero Beach, Fla., will talk at JDM on "Golf Course Construction and the Superintendent."

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Firms cited for engineering

The Agricultural Engineer's "AE 50" award for outstanding innovation in engineering has been awarded to Amiad U.S.A., Inc., Irrrometer Co., Inc., McDowell Manufacturing Co. and Motorola, Inc.

Amiad won the honor for its three-mode filter for low-volume irrigation, Irrrometer for its remote tensiometric sensing stations, McDowell for its pressure-locked irrigation pipe coupling, and Motorola for its multimode irrigation telemetry system.

ASAE also honored agricultural engineering Professor Allen Smajstrla of the University of Florida with its Nolan Mitchell Young Extension Worker Award.

The award is presented to an ASAE member, under age 40, who has made "unique contributions to agricultural engineering."

Stonecreek retains Resort Management

Westcor has hired Resort Management of America to manage its revamped Stonecreek Golf Club, formerly the Anasazi, in Phoenix, Ariz.

Ground has been broken for a 300,000-square-foot corporate center, which will include a 20,000-square-foot clubhouse, at the course. That facility is expected to open by the end of the year.

Rose new GM at Red Mountain

Mike Rose has been named general manager of Red Mountain Ranch Country Club in Mesa, Ariz.

Rose, who played professional golf in the early 1970s, has nearly 20 years experience in country club operations.

A Houston native, he has worked at Clear Lake Country Club in Houston.

He was also head professional at Woodcreek Resort and Spa in Austin, Texas.

He succeeds Dan Desmond, who was promoted to regional di-



Mike Rose

rector of club development by Club Resorts.

ON THE MOVE

NGF promotes Treater to senior vice president

Gary M. Treater has been promoted from vice president of administration to the newly created position of senior vice president of the National Golf Foundation.

Treater will be responsible for the research and communications departments, and special marketing and promotional programs.

Treater joined NGF in 1985 as a research associate.

Later assignments were director of membership service, and vice president of marketing.

Associated with Kemper Sports Management for two years, he was marketing director for several PGA Tour and Senior tour events.

Dr. Beard presented turf award

Dr. James B. Beard of Texas A&M University has been presented the annual Fred V. Grau Turfgrass Science Award by the Crop Science Society of America.

Funded by the American Society of Agronomy's Division C-5, Turfgrass Science, the award recognizes "significant career contributions in turfgrass science."

Recipients are chosen for the significance and originality of their research, teaching effectiveness, implementation of programs in extension and/or industry, administrative effectiveness, and total impact on turfgrass science.

Beard, a professor in Texas A&M's Department of Soil and Crop Sciences, has pioneered research in the past three decades that has been a key in the emergence of the science of turfgrass culture.

The Crop Science Society said stress physiology of perennial grasses has been a major emphasis of Beard, leading to water conservation, minimal maintenance turfgrasses and cultural practices.

Beard has also conducted innovative research in rooting, netsod production, and root-zone reinforcement of sport fields.

He has written six books and speaks at national and international conferences.

Dunes resort said attracting interested buyers

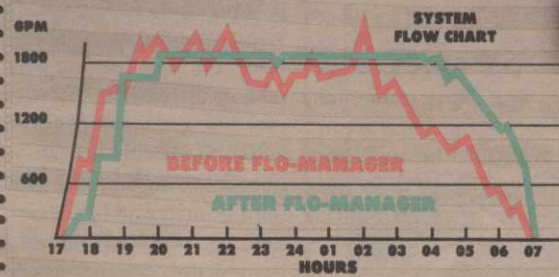
The Dunes Hotel & Country Club, a hotel-casino and golf course in Las Vegas, Nev., that was bought in 1987 by Japanese billionaire Masao Nangaku is attracting several parties interested in buying or managing the 163-acre Strip property.

"It's simply one of many opportunities we're looking at," said Philip G. Satre, president and chief executive officer of Harrah's, the casino unit of Holiday Corp. of Memphis, Tenn.

Other investors, including New York investor Donald Trump, reportedly are interested in the Dunes, which Nangaku bought for \$157.7 million.

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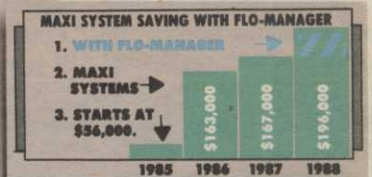
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Test course super endorses self-audit

BY MARK LESLIE

The initial results are in from the first golf course superintendent to use Hall-Kimbrell Environmental Services' self-audit kit and he is sold on its use.

"I'm very, very impressed with the audit," said Richard Stuntz of Alvarado Golf and Country Club in Lawrence, Kansas, next door to the Golf Course Superintendents Association of America headquarters.

"The GCSAA is aiding Hall-Kimbrell with this, and we feel very strongly that golf courses and our membership have to take a proactive stance on environmental issues," Stuntz said. "We feel very strongly that we have to be proactive and regulate ourselves, so that lawmakers will feel it less necessary to come in and enact laws."

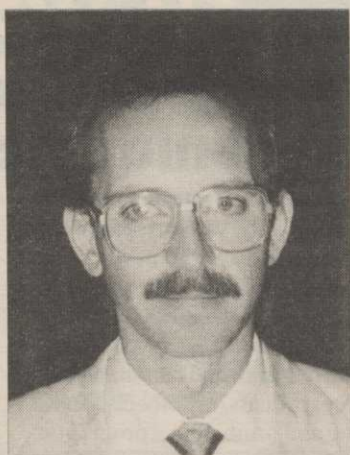
"We will show that we will do things from a safety and environmental standpoint, that we are sensitive to it. Someone who is doing an environmental audit is saying that in a loud way."

Getting a jump

Faced with the prospects of tough environmental laws getting even tougher, golf course superintendents can get a jump on the laws, and save a lot of money, by signing onto the program.

The audit is being tested at a handful of golf courses and is just now available to the members of GCSAA, which has been updating its members on progress of the audit.

"It really started with the board of directors and the government relations committee of the GCSAA at the national level," Hall-Kimbrell project manager Steve Wharton said. "Because of the pressures they are under across the country from the various levels of regulatory agencies they needed to address the issue. They did not have the resources internally within the organization ... and they went



Steve Wharton

through a selection process ... of environmental engineering, analytical firms across the country and they settled on Hall-Kimbrell."

"We want to help superintendents make their golf courses as environmentally pleasant and safe as possible," said John M. Schilling, executive director of GCSAA.

Hall-Kimbrell, which is headquartered in Lawrence, Kansas, has worked closely with GCSAA in the last year to develop the client-assistance program, and the first phase in that program is the self-audit procedure.

The self-audit is designed to assess how well the course is complying with environmental laws, identify programs that are in place in environmental management, and assess the risk in the workplaces and help to reduce potential liability.

Above and beyond

"So what we will be recommending will be not just response actions that will simply bring them in compliance but in many cases actually take them beyond compliance," Wharton said. "We call them 'best-management practices.' In other words, what may be required in an environmental and proactive state like California, New York or Connecticut may not be required if you are in Idaho, Nebraska or

'We will recommend not just response actions that will simply bring them in compliance but in many cases actually take them beyond compliance.'
— Steve Wharton

Montana or someplace that is not quite as proactive... But our recommendations will be the same. In other words, we would say, 'This is what is required in your area to be in compliance, but this is what we recommend as the most prudent response.'

In fact, Alvarado's Stuntz said the most time-consuming part of the self-audit will not be completing the 500-question, eight-part questionnaire but rather following through on the recommendations Hall-Kimbrell makes after receiving the questionnaire.

"I will guarantee that as thorough a job as Hall-Kimbrell does that if you were to do all they advise it would be impossible," Stuntz said, "but they tell you what to do on a priority basis. There are several different levels of priorities on action. Certainly where you are not complying with the law, that is high-priority and I expect to make that type of correction almost immediately regardless of cost or time. Other things will improve the operation or make it safer. Others will take care of issues that haven't reached a particular region yet — underground storage tanks, for instance."

"They (Hall-Kimbrell) are amazing," he said. "They have a lot of knowledgeable people working on this project. I have a pesticide that I want to get rid of, and they have an expert in that area who is work-

ing with me to handle it. When you want to get rid of a pesticide it is a hazardous waste, and they pass me on to another man, who knows who I have to contact, where to go, and how to get approval, et cetera. If I'm concerned about an underground storage tank I speak to another person who is an expert in that field."

Stuntz added that the "depth and breadth of the subjects covered in the audit is far beyond what we as practicing superintendents can contend with... I have a college degree in agronomy, I'm always taking courses and I feel I keep myself pretty well informed, but developments in all these fields have gone beyond our capacity to keep up, like with all the laws. I would have to spend full time keeping up with them and I have a couple of other things to do."

Service we all need

"I think this is a service that we all need."

The GCSAA and Hall-Kimbrell feel a major benefit of the self-audit is cost savings. When outside experts come in to audit a course it can cost in the order of \$1,000 a day, Wharton said, and the final cost is anywhere from \$5,000 to \$20,000 for a comprehensive audit. The cost of the self-audit is \$725 for a GCSAA member and \$900 for a non-member.

Wharton said the self-audit actually pays for itself if you instead face the prospects of a fine for non-compliance with an environmental law.

Fines are heavy

"Most fines — civil, and there are even criminal penalties associated with violation of many of these laws — run anywhere from \$5,000 to \$10,000 a day. So it's a situation where if you feel you can't afford to do it you probably can't afford to not do it," he said.

"One of the things that we've heard is that if the superintendent has a program in place where he can demonstrate to the regulatory agency that, yes, he is proactive, that he's doing this and this to monitor his course, very seldom have they imposed these fines and penalties... Whereas if the superintendent pleads ignorance and shows no effort to take action, they can take pretty heavy action against him."

"Aside from that," Wharton said, "if you have an underground storage tank that may leak and you've not done any testing ... your remediation or abatement costs could run into the thousands of dollars."

Wharton said that when you weigh the cost of the self-audit against having a mishap or fine, it's like having an insurance policy. Several major insurance carriers have contacted Hall-Kimbrell about incorporating the program into the underwriting of their clients, he said, and it is "very likely" a deal will be made with one or more insurance carriers sometime in April or later this spring.

Superintendents everywhere will be keeping abreast of the self-

Kit spells it all out for supers

Hall-Kimbrell's environmental self-audit package includes an instructional video, printed materials and a compliance booklet for superintendents to use.

The program was designed after project manager Steve Wharton "visited 22 golf courses from coast to coast and visited all the states that are particularly sensitive to environmental issues, as well as the ones where there are a predominance of golf courses — California, Florida, Michigan and so forth."

The kit's 500-question questionnaire addresses eight major environmental practices:

- Worker health and safety.
- Pesticide usage.
- Water quality.
- Hazardous waste.
- Underground storage tanks.
- Worker right to know.
- Community right to know.
- Indoor air quality.

Initially a Hall-Kimbrell expert reviews each report before it is returned to a course along with computer-generated findings.

Wharton said followup work will be done after the report is returned.

"We are developing training programs to help (GCSAA) members comply with the federal hazard communications standard, the worker right to know law, programs for the monitoring and maintenance and operation of underground storage tanks," he said. "The community right to know laws are somewhat confusing; there are 39 different variations on them at the state level. So we are putting together some programs to help people comply with that as well."

People may obtain the package through GCSAA Membership Services, 1617 St. Andrews Drive, Lawrence, Kansas 66046; 800-GSA-SUPT.

audit program. As Stuntz said, "My priorities have changed over the last few years. Environment is getting higher and higher on my priority list all the time. The outlook on the environment has changed — personally and in the industry as a whole."

"I believe it's true that we have to do these things if we're not going to poison ourselves to death," he added. "I feel we have to be responsive. Pesticides are an important part of the industry; they need to be used, and used safely."

Laws expected to get tougher

Environmental laws that have become increasingly more strict in recent years will be tightened even more in the years ahead, according to Hall-Kimbrell's self-audit project manager.

Steve Wharton declared, "We can almost guarantee that the laws will get tougher at the state and federal level both."

"There will be a federally mandated law that is transferred to the states for enforcement or implementation," he said. "The Federal Fungicide, Insecticide and Rodenticide Act (FIFRA) is that way; it was implemented in 1972 and has been amended three times since then to be more stringent, and we expect it to be amended again this year..."

"Then you have the new federal law for underground

storage tanks that just was passed last fall."

Wharton said a federal ground water protection act will become law during this current Congress.

"There are literally no standards right now protecting most of the ground water in the United States. Whatever comes into place in this next year will be the first wave, the first stage, in that," he said.

Wharton said the Safe Drinking Water Act "does protect some water but it's usually surface water... Yet, even some golf courses fall subject to those regulations because they have wells for drinking water and irrigation."

Wharton also warned that the Farmworker Protection Act, which does not now apply to golf courses, soon may.

"It's oriented toward the agriculture industry, but there

is a movement afoot now to make it apply to golf courses," Wharton said. "Some of the chemicals used on farms are also used in the golf course and lawn care industries."

A number of states around the country are implementing new, stringent laws, Wharton said, adding, "California, with Proposition 65, is very stringent in many areas. New England though is just as stringent from an overall environmental-concern standpoint. The state of Florida has some very proactive water-quality laws because of the fact that they have a very shallow water table and water is such a protected resource."

"Many of your coastal areas are also tough, but you have some inland states, too — Michigan, Illinois, Iowa — that are coming along with some new laws."

NCA adopts hazwaste program

Citing the use of hazardous and toxic substances at clubs, the National Club Association has announced a plan to provide on-site help to private clubs by scientists and safety experts.

The NCA has joined with Hazco International Inc. to provide a comprehensive, full-service, Environmental Liability Management Program that will help clubs comply with the changing OSHA and EPA regulations and documentation requirements.

The price tag for the basic program is about \$1,700 per year.

"Golf, country, yacht, and city clubs — particularly golf clubs — regularly use up to 200 hazardous and toxic substances, ranging from anti-freeze and cleaning fluids to herbicides and pesticides," the NCA said, adding that clubs must be aware of every one of the substances to provide a safe environment for their workers, members and the community at large.

The NCA said compliance with regulations will be fundamental in defending a club if a lawsuit arises from storage, use or disposal of toxics.

Under the NCA/Hazco program:

- A Hazco safety expert will conduct a comprehensive customized, on-site training class for club employees to satisfy the Right-to-Know requirements established by OSHA. This class will teach all club employees how to handle covered toxic substances and the emergency procedures involved.

- Hazco, which is a subsidiary of Chemical Waste Management, Inc., will provide a customized Written Hazard Communication Program that meets OSHA documentation requirements.

- A comprehensive, on-site toxics audit of substances at each club will be done by Hazco, which will supply the club with a full written audit report.

- Hazco will perform an environmental safety audit and make recommendations on how to correct safety and compliance omissions or irregularities.

- Hazco will meet with club management to discuss and make recommendations on the audit, procedures, and possible dangers at the club; and the company will monitor the club's response to these recommendations.

- Hazco will provide or arrange other optional services, including the testing, removal and/or repair of underground storage tanks, as well as removal services for liquid hazardous materials.

NCA said its Environmental Liability Management Program will serve as the club's hands-on environmental safety auditor for each year the club subscribes. It said the services will be highly customized, "unlike those available in 'do-it-yourself' compliance packages."

Meanwhile, the NCA said it is working with Hazco to develop programs to help clubs finance their safety, compliance, and liability-control services, and the NCA is meeting with suppliers about offering substantial discounts on the purchase of covered substances.

More information is available from Legare Van Ness at the NCA's Washington, D.C., office.

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Guaranteed weed & poa annua free
Sod grown on fumigated sand soil
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Your Best Friend Has Just Hit The Market

Introducing the Putt Puppie. This cute little fellow is made with genuine refinished golf balls. He has a tam o' shanter style hat & a tee for a tail. He's the ideal gift for a boss, your best golfing buddy or any golfing enthusiast. The Putt Puppie is also a great premium gift item for banquets & other golfing events.

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For more information, circle #106

Get A Firm Grip On Key Buying Influences

Superintendents • Greens Chairmen
Golf Course Architects • Developers
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Reach your target market with an ad in
Golf Course Marketplace.

Call Simone Lewis at (813) 576-7077 for more information.

For more information, circle #108

Lawn association joins fight

\$10,000 set aside for legal challenge in New York

The Professional Lawn Care Association of America has earmarked \$10,000 toward the legal challenge of state law and state regulations in New York State.

The appeal, currently in the U. S. Circuit Court of Appeals, has implications for lawn care professionals nationwide.

The New York lawsuit represents a significant step in the struggle for reasonable regulation of the use of pesticides, both for

lawn care services and the entire green industry.

A 1987 law enacted by New York State plus further regulations enacted by the N. Y. Department of Environmental Conservation require customer contracts, prenotification and posting when pesticides are applied.

PLCAA, the New York Pesticide Coalition and other national trade associations feel the regulations and the law are unreasonable, overly broad and unjustified.

These regulations, it is felt, are an extension of the pesticide label and therefore only within the purview of the federal government, not individual states.

The lawsuit was unsuccessful in Federal District court, but the implications of such a decision on the rest of the country were considered so significant as to warrant appeal.

James R. Brooks, PLCAA executive vice president, may be contacted at 1-800-458-3466.

GOVERNMENT UPDATE

Turf Valley exonerated

Investigators have found no evidence of employment discrimination at Turf Valley Country Club, whose manager reportedly made racist remarks last year that were accidentally recorded on a telephone answering machine, according to The Washington Post.

Jean Toomer, director of the

Howard County Human Rights Commission in Maryland, said an investigation into minority hiring practices at Turf Valley CC, near Ellicott City, showed that "blacks are present in the work force in numbers similar to general population statistics in Howard County."

The 17-page report continues: "While there are some job categories, such as officials and managers, professional and sales, which have few or no black employees, (the Human Rights Commission) was unable to determine whether this occurred by chance or . . . (was) due to discrimination because of the small numbers in each of those categories."

Of 168 full-time employees at Turf Valley, the report said, 52, or 30.9 percent, are black. Other minorities accounted for 6.5 percent. Lucie R. Pelgrim, a commission member, filed the complaint nearly a year ago.

The club is owned by Nicholas B. Mangione Sr. The question of employment discrimination at Turf Valley, a popular golf course, hotel and conference center, apparently touched off the racial remark incident last February.

Sherman Howell of Columbia, representing the local NAACP, called the club to ask about its hiring practices.

When Mangione's nephew, Frederick B. Grimmel Jr., a club manager, returned Howell's call, he inadvertently left a string of racial epithets on Howell's answering machine.

Black leaders led a boycott of the club, which many black groups are continuing.

Most other government, civic and business groups resumed their patronage of the club after Mangione apologized and fired Grimmel and the human rights office began its inquiry.

Grimmel has been rehired to what Mangione said is a different job.



CHANGING THE COURSE OF GOLF CAR DESIGN.

Melex' new Model 412 car has the aerodynamic styling of a sleek sportscar. With its new comfort features and ultra-smooth speed control, the 412 rides like a sportscar too.

Unlike most electric golf cars which operate only at full electrical output, the 412's new Curtis/PMC Solid State Speed Control System draws only the energy it needs at any given speed. The resulting savings are dramatic.

Up to 25% more range from a single charge, as much as 30% lower power costs, plus extended battery life.

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or sink into our generously padded bench seat.

While it may be a beauty, the 412 is built tough as a beast, with lightweight, rust-resistant R.I.M. plastic and steel construction. And our brake system is simply the best available.

For over 17 years Melex has been the choice for reliable, affordable golf cars. And now, the exceptional 412 expands those horizons. By design, of course.

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919/828-7645, Toll Free outside NC 1-800-334-8665, Telex 825868



For free information Circle No 134

U.S.-Canada pact amends Seed Act

The Federal Seed Act regulations have been amended removing the requirement that seed imported into the United States from Canada be stained violet.

The rule had become effective when the United States-Canada Free-Trade Agreement went into force on Jan. 1. But its amendment was reported Jan. 31 in the Federal Register.

Comments on the interim rule had to be postmarked by Feb 28.

Maine Golf premieres

Bill Lyons of Brewer, Maine, is keeping the memory green of his native Ireland with planned monthly publication of "Maine Golf."

The premiere issue, appropriately, appeared March 17. The 32 pages range the state's golf gamut, including a feature article on state golf course superintendents by veteran sportswriter Dick Doyle.

Lyons and Doyle hope to blanket the Pine Tree State's vast area with news of all facets of links activities. That may be a major undertaking. The 13 courses either just completed or under construction

bring the state's total to about 140 over a 500-mile span.

Ambitious though this project may be, Lyons believes his magazine will be welcomed by increasing numbers who have turned to golf as their chief source of recreation.

Said Lyons: "Doyle and I plan to keep the golf public informed of everything from the maintenance shack to the pro shop. We'll try to inject a bit of Irish humor while reporting on club championships, scrambles, pro-ams and, of course, the average player."



Bill Lyons at work

EPA drafts pesticide plan

The Environmental Protection Agency is drafting a three-tier, restricted-use pesticide system to ensure that qualified people are applying or overseeing application of pesticides.

The EPA proposal, expected to be published for comment this spring, divides pesticides into three levels:

- Level One pesticides would be used only by certified applicators and only for those uses covered by the applicator's certification.
- Level Two products could be

used by a non-certified person but only under direct supervision of a certified applicator who is only five minutes away from the site.

• Level Three pesticides could be used under direct supervision of a certified applicator who could be at the site or could reach it "within a reasonable period of time." Under this least-restrictive level, "the potential for serious consequences of a delay in arriving on site" would be taken into consideration when determining what is a "reasonable" period of time.

California supershine in debut

"Golden State Fairways," the official publication of the California Golf Course Superintendents Association, made a sparkling debut as that group hosted the annual GCSAA conference at Anaheim, Calif.

The 48-page full-color quarterly magazine, the outgrowth of several superintendent chapter sectional newsletters, is designed for the California golf course manager to benefit the golf industry.

Emphasis will be on turf and landscape information for California golf courses. Content will focus on educational and informational topics.

Tim Sedgley of the Northern California chapter is magazine president. Other chapter officers are Rick Scholes, Sierra Nevada, vice president; Robert Tillem, Central California, secretary, and David Lozoya, Hi-Lo Desert, treasurer.

Dale F. Keller Jr. is publisher/editor, Daniel A. Heath copy editor. Craig A. Ruark heads advertising sales, Gary Zee design/production.

Publication address is R/K Communications Group, Inc. 3376 S. Eastern Ave., Suite 148, Las Vegas, Nev. 89109.

NOW IT'S POSSIBLE TO HAVE EXCELLENT ROOTS LIKE THESE ON YOUR TURFGRASSES.



Irrigation Expo will look back on 40 years

"Forty Wondrous Years of Irrigation" is the theme of the 1989 International Irrigation Exposition and Technical Conference Nov. 12-15.

The conference will be held at the Anaheim, Calif., Convention Center.

The world's largest show devoted exclusively to irrigation, it will include more than 400 exhibits, technical presentations, short courses and certification programs.

The regular use of Regal Crown root growth stimulator on all types of turfgrasses has exhibited phenomenal results. Turfgrass types such as bermuda, bent, zoysia and others develop more roots that are healthier and penetrate deeper when treated with Regal Crown. More roots that imbed themselves deeper into the soil means better nutrient and moisture take-up which yields thicker, greener tops. Regal Crown is a blend of hormones specifically designed to promote root growth in turfgrasses and ornamentals. Used regularly, Regal Crown roots



can minimize hot weather dry wilt stresses and winter desiccation.

Turfgrass managers, golf course superintendents, sod grass growers and nurserymen are praising the results from Regal Crown. You will too.

Regal Crown Results: 1. New roots on bermuda sod after only 6 days. 2. Dense bentgrass roots deeper than cup cut. 3. Zoysia plug, only 2 weeks old. 4. 8" bentgrass roots in 100° July weather.

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For free information Circle No 135

NGF travel card could mean big savings

National Golf Foundation members can now save significantly on their golf-related travel expenditures.

The NGF is offering a new travel service benefit that means discounts ranging from 35 to 65 percent on selected air fares, as well as from 10 to 30 percent on hotel and car-rental rates.

Unrestricted, unpublished discounts of between 40 and 65 percent off regular coach rates are included. No penalties are imposed on last-minute changes and no

Saturday night layovers are required.

NGF says several major airlines are participating in the program and more than 25 hotels and motels are offering discounts of between 10 and 30 percent.

National Car Rental is offering discounts on all its vehicle rentals, from economy cars to minivans and wagons. Discounts of 22 percent off the published counter rates are available during the week. National Car Rental consistently offers weekend specials, and those

Discounts range from 35 to 65 percent on selected air fares and from 10 to 30 percent on hotel and car-rental fees.

using the travel card can obtain an additional 7-percent discount off these weekend specials.

The package is being offered through Worldtek Travel, whose

president, Ken Luciani, said, "The NGF has a membership which spans the entire golf industry. This makes the foundation the logical organization to offer this new travel service."

South T. Smith, NGF vice president of membership services, said members soon will receive their travel service wallet card if they haven't already. NGF members may use two toll-free numbers (800-243-3180 during business hours and 800-243-1723 after hours) to make their

reservations.

Worldtek will deliver the airline tickets to the customer via overnight service. NGF member companies and associations may opt to have a ticketing machine in their offices for their convenience.

NGF members with larger yearly travel budgets are entitled to the services of a full-time travel representative at an in-house travel service center at no cost.

People may contact Smith at NGF's Jupiter, Fla., headquarters for more information.

Who's participating

Airlines participating in the National Golf Foundation's travel service program, which is similar to the PGA and LPGA programs, are:

- American
- Continental
- Delta
- Northwestern
- TWA

Hotels and motels offering discounts in the plan are:

- Amsac
- Best Western
- Crest
- Doubletree
- Forum
- Hilton
- Howard Johnson's
- Hyatt
- LaQuinta
- Lincoln
- Marriott
- Midway Motor Lodges
- Othon
- Quality Inns
- Radisson
- Ramada Inns
- Red Roof
- Sheraton
- Sonesta
- Steigenberger
- Stouffers
- Super 8
- Viscount (at JFK)
- Westin

Ross 1,000th CGCS super

Ronald M. Ross of Hillcrest Country Club in Lincoln, Neb., is the 1,000th active member to earn the Golf Course Superintendents Association of America's Certified Golf Course Superintendent (CGCS) designation.

Ross has been superintendent of the 18-hole private club since July 1984. Previous posts were at the Great Oaks Country Club in Rochester, Mich., and Grand Hotel Golf Course in Mackinac Island, Mich.

GCSAA instituted the certification program in 1971 as a means of recognizing outstanding and progressive course superintendents.

To become certified, a candidate must have five years' experience, pass a rigorous six-hour examination testing knowledge of the game and rules of golf, turfgrass, pest control, financial and organizational management and the history, ethics, purpose and procedures of GCSAA.

REMEMBER THE Roundup®



Around trees and utility poles.

For edging cart paths and sidewalks around the clubhouse.

Garfield Williamson reorganizes

Garfield Williamson, Inc. of Fairfield, N.J., has reorganized and expanded its lawn-seed business, according to company officials.

The firm recently completed a major expansion of its warehouse and production facilities, including state-of-the-art, high-speed packaging equipment.

The Wonderlawn Retail Division and Proform Professional Division will continue to focus on expanding markets in the East and Midwest under the Garfield Williamson nameplate.

Mrs. George Wagner, the widow of one of the company founders,

has been named president and owner. William Lind, a seed broker for three years with John Zuelzer & Son, has been named executive vice president and general manager. Gale Wagner O'Brien has been named corporate secretary.

Garfield Williamson also announced that its Performance Seeds Division has become independent and, as a separate company, will be run by president John Zajac.

Performance Seeds develops, produces and markets proprietary turfgrass varieties.

Triumph wins three more approvals

Special Local Need (24c) Labels for Triumph insecticide have been approved for Ohio, New Hampshire and New Jersey.

The 24c label allows Triumph to be used for insect control on golf course greens tees and aprons, and on sod farms. And Ciba-Geigy now is making the product available in those three states as well as others where it was previously approved.

EQUIPMENT NEWS

Ciba-Geigy doubles turf staff

Ciba-Geigy Corp.'s Turf & Ornamental Department has doubled its staff to manage an expanded product line. In Greensboro, N.C., Owen Towne, formerly responsible for market research, has been named product manager for turf fungicides.

Dr. Marcus Juby of Blue Springs, Mo., will coordinate development

and product support services with customers and researchers east of the Mississippi River, while Dr. Jeff Kollenkark of Clovis, Calif., will handle the Western states.

The company's field marketing staff will increase with the addition of Ron Johnson, promoted to national accounts manager, and new employees Mike Daley (Midwest), Mark Jirak (Mid-Atlantic), Jimmy Johnson, (Indiana, Kentucky and lower Michigan), Ray Lea (south Florida), Russ Nielsen (New England), Ken Russell (upper Southeast) and Gregg Schaner (Ohio, West Virginia and west Pennsylvania).

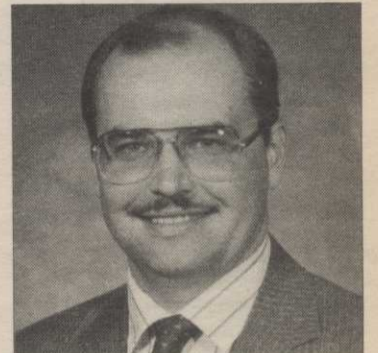


For turf renovation — from spot to complete course.

To control brush in the rough.

To keep trap and hazard borders neat.

Along fences, planters and beds.



Tom Meier

Steiner names Meier to post

Steiner Turf Equipment in Orrville, Ohio, has appointed Tom Meier as director of finance. He will be responsible for all finance and accounting functions, as well as data processing and purchasing.

Meier joins Steiner after four years at Ransomes, where he most recently has been controller. Both Ransomes and Steiner are subsidiaries of Ransomes, Sims and Jefferies of Ipswich, England.

A graduate of the University of Wisconsin-Oshkosh, Meier was an auditor with Arthur Anderson & Co. until joining Ransomes.



Sheryl Bunker

Ransomes hires new controller

Ransomes Inc. has announced the appointment of Sheryl Bunker Schnering as controller at its Johnson Creek, Wis., headquarters.

Ms. Schnering earned a BBA degree in accounting at the University of Wisconsin-Madison.

She worked five years with Price Waterhouse, most recently as senior accountant.

Now's the time to Remember ROUNDUP® herbicide for all kinds of jobs around the course. Remember that ROUNDUP controls weeds roots-and-all. That means you'll save time and labor by eliminating retreatment.

Remember that ROUNDUP stays where you put it...so there's no washing or leaching problems to harm desirable vegetation. And Remember that ROUNDUP is biodegradable and won't build up in the soil. That fact will give

you the environmental confidence you need to use Roundup everywhere you've got a weed, brush, edging or trimming problem. Or even for complete or spot turf renovations. See your dealer and Remember the ROUNDUP.

Always read and follow the label for Roundup® herbicide. Roundup® is a registered trademark of Monsanto Company. © Monsanto Company 1989 RIP-9-103 DR

Monsanto

For complete information on the many benefits of Roundup for golf course grounds maintenance, call

1-800-225-2883

For free information Circle No 136

NEW LITERATURE

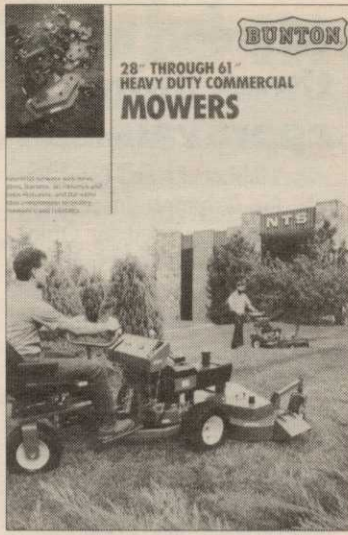
Turf career pamphlet out

"Turfgrass Management as a Future Career," a pamphlet spelling out career opportunities and preparation, is available from Texas A&M University's Department of Soil and Crop Sciences in College Station, Texas.

The pamphlet, describing the turfgrass industry as "big business"

in Texas, details how people should prepare for a career in the field.

It also explains about financial assistance and lists employment opportunities, which include golf course superintendent, grounds maintenance supervisor, research, and work for seed and chemical companies. Circle No. 293



Bunton catalogs its new products

Bunton Co. has released a brochure on its expanded line of commercial rotary mowers.

The brochure includes complete specifications on variable-drive walk-behind rotaries, gear-drive walk-behinds with reverse models, and a new 61-inch rider.

Bunton's variable-drive mowers are available in six cutting widths, from 28 inches to 61 inches, and its 48- and 52-inch-wide gear-drive models feature a full operating reverse drive and specially

designed transmission for "shift-on-the-go" operation.

Bunton offers commercial engines from five manufacturers.

Other new features this year include quick-adjust turf casters for fast, efficient height adjustments in the field, and optional attachments for thatching and mulching while mowing.

For more information contact Bunton Co., P.O. Box 33247, Louisville, Ky. 40232; 502-966-0550. Circle No. 291.

Green evolution topic of booklet

The American Society of Golf Course Architects has made available a comprehensive booklet, "Evolution of the Modern Green," by Dr. Michael Hurdzan, a past president of ASGCA.

ASGCA says the publication is a comprehensive look at design, construction and maintenance of golf greens that is presented "in a manner that will be of interest to turfgrass people and those who are responsible for the design and maintenance of both private and public courses." In the full-color booklet, Hurdzan discusses the origins of greens in the United States, explores the engineering and inner workings of golf's often unpredictable and sometimes precocious "dance floors," explains the various techniques used to build greens, and provides helpful information in maintaining them.

The ASGCA feels the booklet is important for superintendents, golf professionals, course owners and managers, green committee chairmen, municipal committees, people planning new courses or remodeling old ones, and golf aficionados.

It is available for \$5 from ASGCA, 221 N. LaSalle St., Chicago, Ill. 60601. Circle No. 290.

Seed association offers brochure

The American Seed Trade Association has produced a full-color 15-page brochure rich in information about the seed industry, its history, its various segments, and research.

ASTA's publication traces development of seeds from their introduction to America, when adventurers came here in the 17th century, to today's biotechnological research into plant genetics.

Laced with color photographs, it tells about the lawn and turf seed industry as well as those involved in flowers, vegetables, forages, corn, sorghum, soybeans, wheat and cereal, cotton and sunflowers.

The brochure also explains ASTA's functions and duties in areas ranging from legislative action to public research.

For the brochure, contact American Seed Trade Association, Inc., Suite 964, Executive Building, 1030 15th St., N.W., Washington, D.C. 20005-1593; 202-223-4080. Circle No. 292.



Dollar Spot first appears as yellow-green blotches on grass blades. Overall view of affected area shows patches from a few inches to several feet in diameter. Treat preventively at a rate of 1 oz./1,000 sq.ft. every 28 days.



Summer Patch first appears as small patches of light green turf but can fade within hours to a light straw color. Research indicates best results are obtained with a preventive application of 4 oz. when soil temperature reaches 60-70°, followed by a second application 30 days later.



Red Thread, in its latter stages, is distinguished by the presence of bright coral pink thread-like structures 1/6-1/4 inch in length. Use Banner preventively, before disease problems begin, with 2 oz. every 14-21 days.



Anthracnose is most severe on *Poa annua* and first appears as irregular patches of yellowing turf which eventually turn bronze before fading to light tan. Prevent damage with 1-2 oz. of Banner every 14-28 days.

The first preventive fungicide that lets

For years, medical science has known that to achieve the most effective control, different diseases often require differing methods of prescriptive treatment.

Yet only now, with Banner®, are you finally able to gain the same sophistication in the prevention of diseases on turf.

Because Banner is a truly

unique systemic fungicide. With a broader spectrum of control and a more efficient method of treatment than any other yet devised.

Instead of one indiscrim-

Toro machine masters greens and aprons

Toro has unveiled a new piece of equipment - the Greensmaster 3000-D - designed to use on greens, aprons and fairways.

The Greensmaster is equipped with a more durable 17-horsepower liquid-cooled engine and it features power steering and an automotive-style steering wheel. The steering arm is adjustable and can be quickly raised or lowered. Height-of-cut is easily adjusted, from 3/32 to 11/16 inch.



Contact Dennis L. Brown, maager, Marketing Services, Commercial Products Division, The Toro Co., 8111 Lyndale Ave. South, Minneapolis, Minn. 55420. Circle No 232.

NEW PRODUCTS

Creeping bentgrass improved

Cobra creeping bentgrass is a new, improved variety developed jointly by International Seeds, Inc. and the New Jersey Agricultural Experiment Station.

A dark green, Cobra is said to produce turf of exceptional uniformity.

In trial results, Cobra's turf quality has been unusually high when

given bentgrass care and mowed at putting green heights of 1/4, 5/32, 3/16 and 7/32 inches.

Cobra is a favored choice for fairways and tees, where it will thrive when cut at 1/2 to 5/8". At this level, it has proved exceptionally competitive with *Poa annua*.

It has an excellent combination of heat and drought tolerance, as well as winter hardiness.

Contact International Seeds, Inc., P. O. Box 168, Halsey, Ore. 97348. (800) 445-2251. Circle No 257



Powdery Mildew gets its name from the early stage growth of a gray-white powdery fungus on the leaf surface. In cases of high incidence, entire turf areas may appear dull white. Preventive fungus growth with 1-2 oz. every 14-28 days.



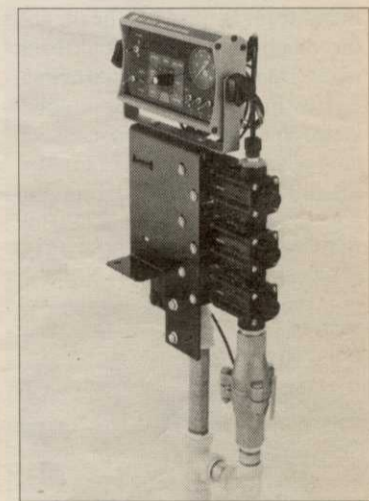
Rust shows up first as light yellow flecks on the grass leaves. If left untreated, leaf surface will eventually rupture and yellow-orange or reddish-brown pustules develop. Preventive treatment calls for 1-2 oz. every 14-28 days.



Spring Dead Spot appears as circular, straw-colored patches on Bermudagrass leaves just as they begin to green-up in spring. The rest of the plant is affected with black to brown dry rot. University research indicates preventive control can be obtained with 4 oz. applied in the fall.



Brown Patch is recognized by a "frog-eye" pattern formed by the diseased turf encircling green, unaffected plants. For prevention, apply 2-4 oz. every 10-21 days. If disease is already present, apply 2 oz. with a registered contact fungicide.



Micro-Trak kit made to fit Deere, Hahn

Micro-Trak Systems' new MTD-3000/JDH Kit takes approximately one hour to install, as all plumbing is assembled at the factory

It's made exclusively to fit the John Deere 1500 and Hahn Multi-Pro sprayers. The kit bolts to the side of the sprayer and uses existing quick couplers without cutting or adapting any hoses.

Once installed and calibrated, the unit will allow the sprayer operator to automatically stay at his target application rate regardless of changing ground speed.

In addition to a GPA readout, the unit will show total gallons applied, area covered, MPH and feet traveled.

Micro-Trak Systems, Inc., P. O. Box 3699, Mankato, Minn. 56002. Circle No 253

Tester features load switch

Among new features of "The Battery Tester" from American Monarch Corp. is a load switch which gives ability to test individual cells.

Light weight, portable and easy to use, the tester accurately measures battery capacity, using standard measurement recommended by battery manufacturers.

American Monarch Corporation, 2801 37th Avenue NE, Minneapolis, Minn. 55421. (612) 788-9161. Circle No 255

you treat each disease on its own turf.

inate rate, Banner gives you the precision to treat up to a total of twelve specific turf diseases with their own recommended rates, timing, and frequencies.

Rates that, in many cases, are lower than those that are required with other turf-grass fungicides.

Which means Banner isn't just an intelligent way

to effectively prevent disease, it's an intelligent way to prevent spending more than you have to.



© 1989 CIBA-GEIGY Corporation, Turf and Ornamental Products, Box 18300, Greensboro, NC 27419. Always read and follow label instructions. *Label pending.

RedMax goes under water

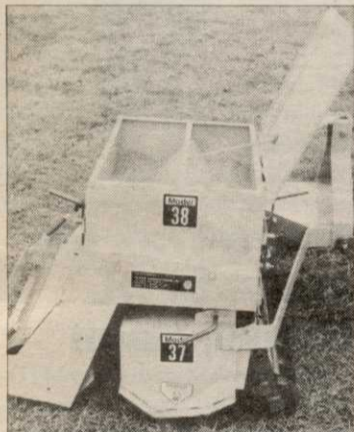
Increased safety and wide versatility are being cited as the hallmark of the RedMax Reciprocator, which can be used underwater as well as above.

Manufactured by Komatsu Zenoah America, Inc., the Reciprocator can be used as a trimmer and brush cutter, edger, branch clipper and pruner. Instead of buying three pieces of equipment, superintendents need buy only one, Komatsu says.

The machine features reciprocating blades that cut weeds, grass and small branches up to one-half inch in diameter. Its two 20-tooth blades reduce the danger of debris flying from the cutting head, and the machine does not kick back when a blade strikes a fixed object.

The Reciprocator has a solid-state, electronic ignition, a 22.5cc engine and weighs 14.1 pounds.

Contact RedMax, Komatsu Zenoah America, Inc., P.O. Box 1545, Norcross, Ga., 30091-1545. Circle No 231.



Slit seeder covers faster

Olathe's Model 37/38 is a new 30-inch wide PTO powered slit seeder with "dual level seeders" for bare dirt seeding, established turf overseeding, thatching and aeration.

This unit easily attaches to any 16-24 HP tractor with 3-point hitch and 540 PTO. The 37/38 seeds on top and into the ground for faster and better coverage.

Olathe Manufacturing, Inc., 100 Industrial Parkway, Industrial Airport, Kan. 66031. (913) 782-4396. Circle No 261

Compuflo lists host of options

Pumping Systems, Inc. introduces the Compuflo prefabricated pumping system.

Compuflow combines ease of operation, microprocessor control and cost-effective performance.

The systems provide 100 to 3,000 gallons of water per minute, are available in combinations of one to four pumps, and offer a host of options.

Automatic controls are backed by several safety features.

Pumping Systems, Inc., 10717 Harry Hines Boulevard, Dallas, Texas 75220. (214) 357-1320. Circle No 262



Kubota debuts tractor

The T1600H debuts as the first Kubota lawn tractor equipped with a liquid-cooled diesel engine.

Its two-cylinder, 13.5-horsepower engine delivers superior performance and operating economy.

A three-blade, 44-inch mid-mount mower provides exceptional cutting performance. A shaft drive system provides the mower and hydrostatic transmission with more power and dura-

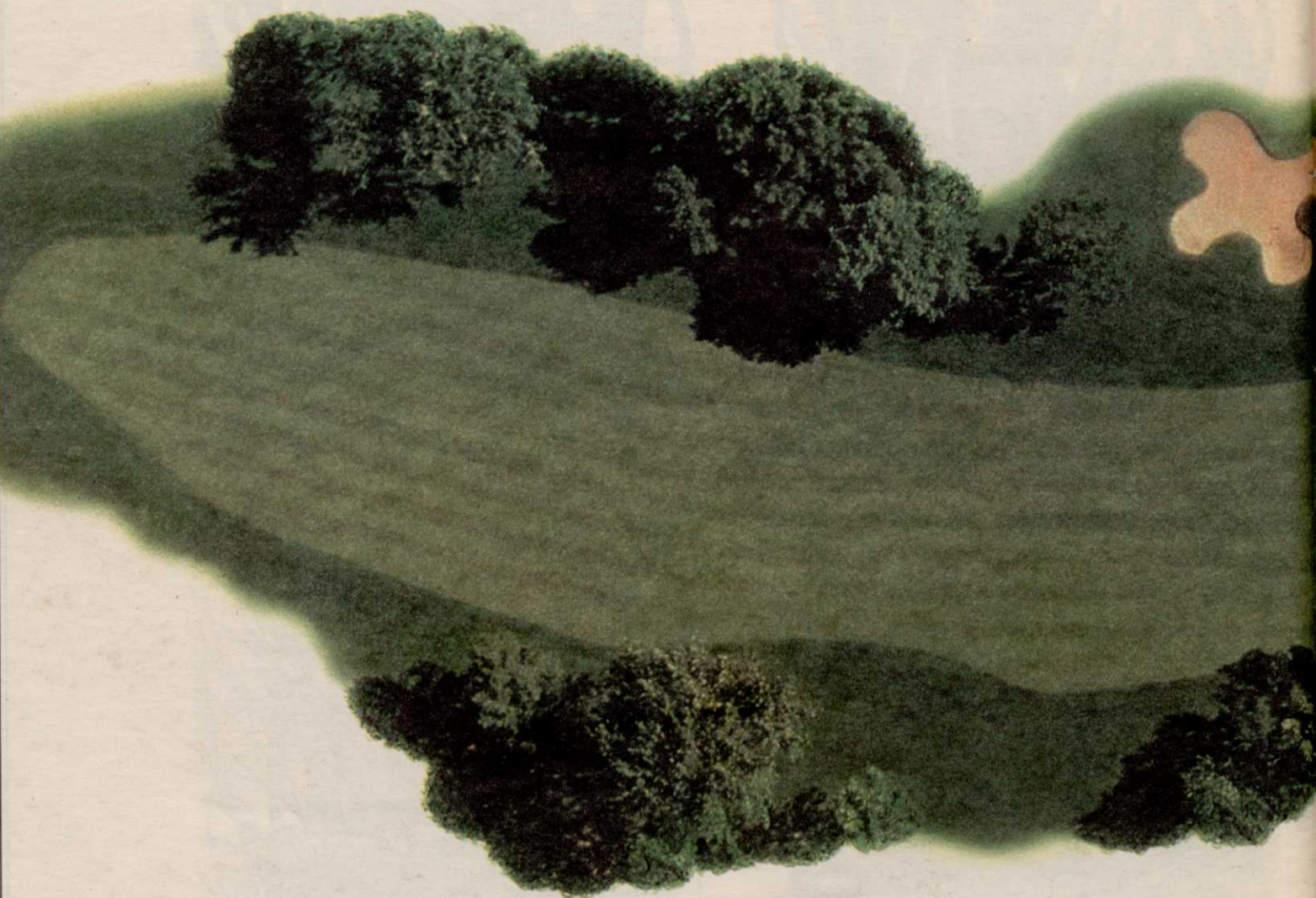
bility than conventional belt drive systems. A single pedal controls both speed and direction changes quickly, eliminating clutching or shifting.

The T1600H is compact and lightweight. This new model is designed with a full flat deck for operator comfort.

Contact *Kubota Tractor Corp.*, 550 West Artesia Boulevard, Compton, Calif. 90220. Circle No 247.



From tee



And everything

From the first tee to the 18th green, your reputation depends on the quality of every square foot of playing surface. That means fairways, too.

It takes a special fungicide to keep that much turf disease-free. It takes CHIPCO®

brand 26019 fungicide.

CHIPCO® 26019 provides unsurpassed control of major turf diseases, including: Helminthosporium Leaf Spot, Melting Out, Dollar Spot, Brown Patch, Fusarium Blight, and Red Thread. It even

protects against Pink and Gray Snow Mold.

And if it's economy you're looking for, CHIPCO® brand 26019 fungicide is your best disease control buy. Just one application protects turf for up to 4 weeks.

As with any crop protection chemical, always read and follow instructions on the label. CHIPCO is a registered trademark of Rhone-Poulenc.

Lebanon sells two in one

Lebanon Total Turf Care has introduced a product for Southern turfgrasses it feels can save time and money because it is two products in one.

Lebanon's Country Club 7-3-22 with Ronstar is a granular fertilizer that contains 1.73 percent Ronstar pre-emergent herbicide. Its homogeneous 7-3-22 35-percent organic fertilizer base has 1.5 units of W.I.N. and promotes turf growth and rich color.

The Ronstar controls many

a wide variety of woody ornamentals, the company says.

Lebanon says the product is for use on established perennial bluegrass, Bermudagrass, perennial ryegrass and St. Augustinegrass, killing annual weed seeds as they germinate. It says that when used as directed, the product will provide economical control of crabgrass, poa annua, goosegrass, Florida pusley, oxalis, stinging nettle, carpetgrass and pigweed.

Contact Lebanon Chemical



E-Z-GO cars convertible

The new E-Z-Go Convertible Car Kit may be used as a personnel carrier, light hauler and, of course, golf car. Put the rear seat in place and it can carry four passengers with ease.

Flip over the rear seat and it becomes a 38- by 35-inch cargo deck with an 800-pound load capacity. Fold the cargo deck for a bagwell that accommodates two golf bags.

Contact E-Z-Go Textron, P. O.



Jacobsen hails Tri-King models

Better traction and maneuverability on slopes and in wet conditions are the featured attractions for Jacobsen's new three-wheel-drive Tri-King 1471, while responsive steering and a foot-operated reel lift are the hallmarks of the new Tri-King 1671D diesel triplex trimming mower.

According to Jacobsen, turf managers had indicated there was a need for three-wheel drive in hill climbing, side-slope mowing and traction in wet conditions; and the company moved to fill that need with the 1471. It extensively tested the Tri-King last summer and found that the added hydraulic motor on the rear steering wheel significantly improved traction.

The 1471's options include five- or 10-blade reels, grass catchers, grooved or solid front rollers, front micro-height adjusters, and traction wheel weights.

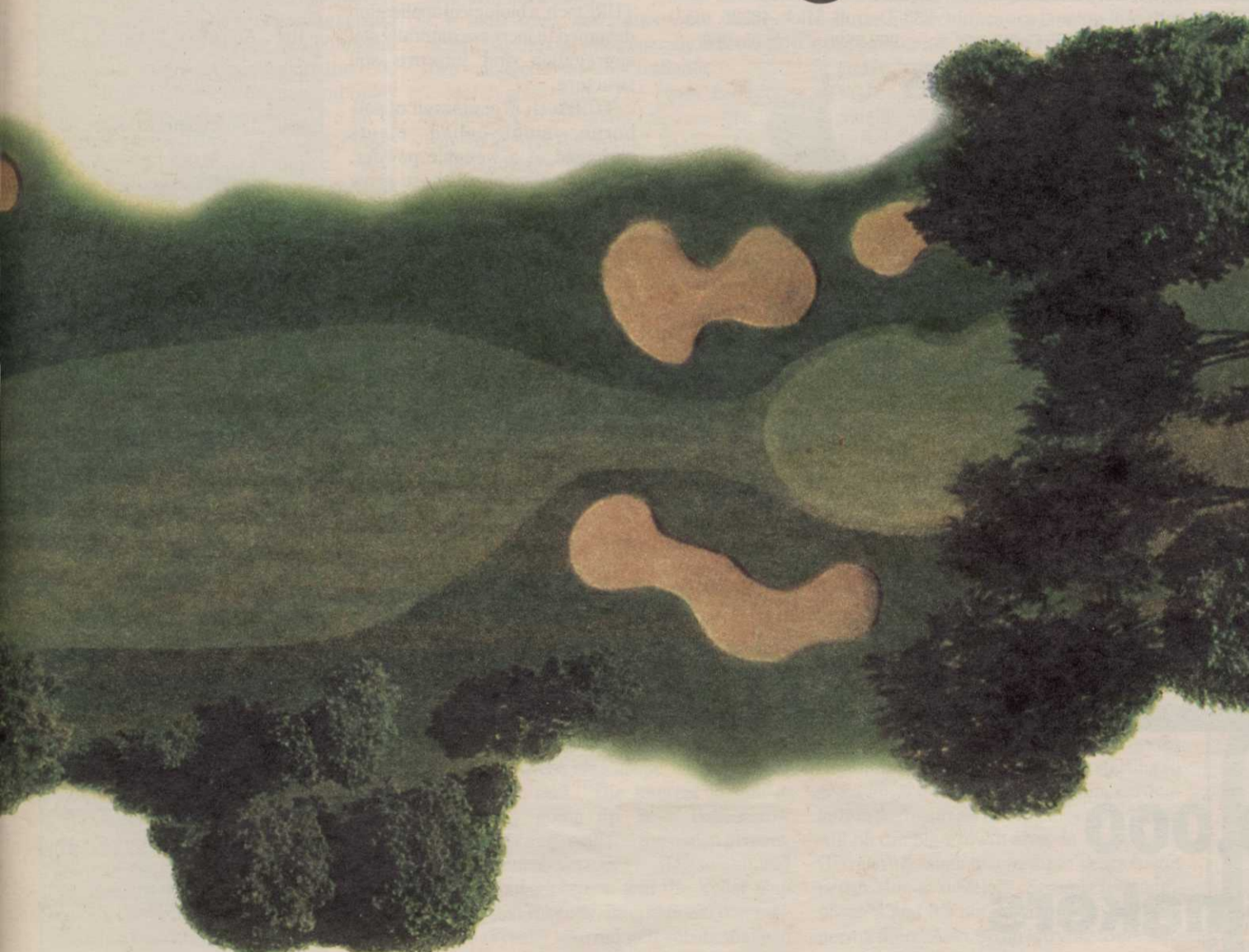
The Tri-King 1671D diesel triplex trimming mower that gives a quality cut on tees and collars and makes cross-cutting fairways easy.

The 1671D has optional three-wheel drive for superior traction on slopes and in wet grass.

The reels can be set for fixed floating operation at cutting heights from 3/8 to 2 3/4 inches. Both 10-blade and five-blade reels are available.

For more information, contact the Marketing Department, Jacobsen Division of Textron Inc., 1721 Packard Ave., Racine, Wis. 53403. Circle No 240.

to green.



ing in between.

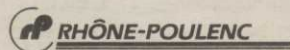
Add the fact that CHIPCO® 26019 does not burn turfgrasses, and is available in two convenient formulations—wettable powder and smooth-pouring flowable—and it's easy to see why so many top superintendents are making their

first choice for full-season disease control.

CHIPCO® 26019. It goes the distance.

Chipco® 26019

Fungicide



Pace label wins EPA approval

The Environmental Protection Agency has approved a label for Ciba-Geigy's newest turf product, Pace fungicide.

Pace is said to provide superior control of Pythium blight and yellow tuft in all turfgrasses, as well as downy mildew in St. Augustinegrass.

Pace's non-contaminated container reduces potential environmental and applicator exposure. It's packaged in water soluble bags and sold in GreenPaks.

Contact: Joe Prochaska, Ciba-Geigy Corp., Greensboro, N. C. (919) 292-7100. Circle No 264

Tee Combo multi-faceted

A wastepaper basket need no longer be an unsightly but necessary staple of the driving tee.

Ecolad Corporation offers Tee Combo's attractive and sturdy 90-pound aluminum receptacles that enhance the surroundings and provide a wealth of helpful material.

Combo's contain course and illustrated golf rules, and the day's tournament information which might include space for longest drive and closest to the pin statistics.

Each receptacle shows the hole layout. There's a ballwasher bracket with locking nut, illustrated pro pointers, spike cleaner and advertising package.

The receptacle is 44" x 21" x 21", has a 55-gallon capacity and is rust-, fire- and salt-water proof.

One-piece construction means no seams. An overlapping lid with



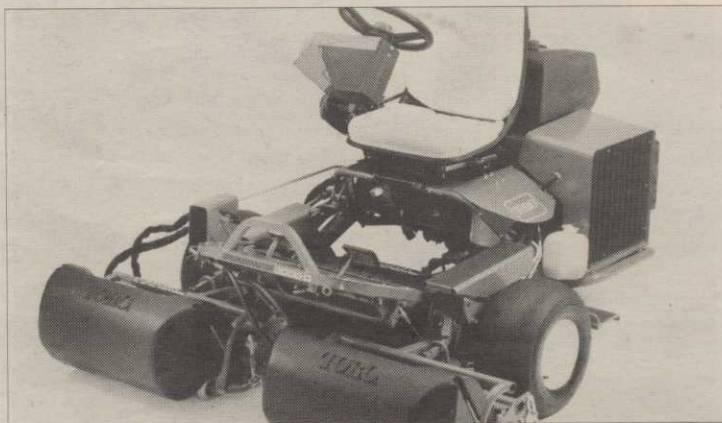
self-closing flap keeps weather and animals out. Contact Ecolad Corp., 65 Cadillac

Square, Mezzanine Level, Suite 233, Detroit, Mich. 48226. (313) 962-3525. Circle No 266

Ransomes gang produces

Ransomes offers its high production, easy-to-operate gang mowers as an economical answer to mowing large open areas such as fairways, sports fields, parks and roadsides. They are offered in various configurations and widths.

Trailed gang units with a mowing width of 2 1/2 feet (one cutting head) to 20 1/2 feet (nine cutting heads) are available, as are tractor-mounted, hydraulic power units with mowing widths of as much as 15 feet.



Ransomes has manufactured and marketed reel mowers for more than 150 years.

Contact Mark Foree, Ransomes, Inc., Johnson Creek, Wis. 53038 (414) 699-2000. Circle No 267

Standard Golf improves hazard markers

Standard Golf Co. has refined hazard markers, eliminating the pulling out and hammering back process.

To install, drive the 1 1/2-inch steel anchor into the turf. A driving

cap is included with each carton. Once positioned, the 32-inch PVC markers easily may be slid in...or out.

The bright, highly visible markers are available in USGA-recom-

mended white for out-of-bounds, yellow for water hazards and red for lateral hazards.

Write Standard Golf Co., P. O. Box 68, Cedar Falls, Iowa. 50613 (319)-266-2638. Circle No 268

Peat tees offer hope

Broken golf tees, a nuisance on golf courses and estimated to cost the average golf club \$6,000 to \$8,000 annually in removal and mower damage, soon may yield to modern technology.

There's now a biodegradable golf tee made of environmentally approved, non-polluting compressed peat moss. It's called Peat "T" Inc. Inventor is Donald P. Noland of Edmonton, Alberta, Canada, a construction contractor.

Noland notes: "Conventional wooden tees can lie on the ground for weeks. Broken peat moss tees

absorb moisture overnight and are mulch by morning."

Most golf tees are made of wood and come from Korea, Hong Kong and Taiwan. Canada imports about 100 million a year, the United States about 1.6 billion.

Peat T makes functional and economic use of a nuisance raw material—100 pounds of peat moss costs 80 cents and yields 39,000 tees.

Contact Peat "T" Inc., 14312-63 Ave., Edmonton, Alberta, Canada. T6H 1S4. (403) 436-1002. Circle No. 263.

TURFtech made to help soil structure

Soil Technologies Corp. of Fairfield, Iowa, has released TURFtech, a biological application designed to increase naturally soil aggregation and improve soil structure.

TURFtech is composed of soil-borne, single-celled plants packaged as a wettable powder. When spray-applied, these grow on the soil surface and produce unmanipulated plant residues (biopolymers) beneficial to the soil without interfering with grass growth.

One of these residues is polysaccharide, a complex sugar. The sugars are capable of bonding individual soil particles and forming a soil aggregate.

Increasing soil aggregation creates additional pore space, allowing air and water to move into the soil more easily. By increasing pore space, TURFtech helps compacted soils to drain. Grass is healthier and less prone to disease.

Contact Soil Technologies Corp., P. O. Box 1415, Fairfield, Iowa 52556. (515) 472-3963. Circle No 269

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Reach 20,000 decision-makers

Golf Course News. The newspaper of golf course business. Reach superintendents, greens committee chairmen and club board members, golf course architects, developers and builders — 20,000 decision-makers.

Contact Charlie von Brecht, publisher, today to reach those decision-makers in the May issue of *Golf Course News*. Closing date is April 14th.

GOLF COURSE NEWS

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Americans cash in on European jackpot

BY MARK LESLIE

Golf's popularity is skyrocketing around the world and American experts and manufacturers are eyeing countries from East to West to export their knowledge and hardware.

"Whereas the United States is in the second or third golf boom, Europe and Asia are in their first — and they're lacking expertise in several areas," said James E. McLoughlin of The McLoughlin Group, who is spending more and more time consulting would-be golf course developers in Thailand, Italy, Austria, Norway, Belgium and even Yugoslavia.

American golf course architects, builders, club managers, and consultants like the Pleasantville, N.Y.-based McLoughlin are being beckoned to Europe and Asia to fill that void in expertise as the golf boom spreads internationally.

Allard Hoogland, managing partner of Expoconsult in Holland which is organizing the first Golf Course Europe exhibition and conference, said, "There are more than 500 new courses planned in Europe and many more plans are being made, and a lot of Europeans are looking to the U.S. for information."

Perry Dye, the new president of the Golf Course Builders Association, agreed, "There's no doubt (golf expertise) is an asset that Americans can export..."

"The golfing capital of the world is the United States. We have 13,000 golf courses and a country like Japan, which is crazy over golf, only has 1,500," Dye said. "We definitely have the expertise. We've built more golf courses; we have more golf course architects in the United States. So it's a natural exporter."

"It's becoming pretty common knowledge that the golf explosion is going on around the world: the Far East, Europe, even South America," Dye said.

Tremendous interest

Club Car President George Inman, president of the Golf Car Manufacturers Association, said there is "tremendous activity overseas" in his business. "We have had more interest in international sales in the last six to 12 months than we have had in all my history in the business — and that's all the way from the East to the West," he said.

"Europe is getting ready to really bust open. There's no doubt about that," he added, "and it's going to be very interesting to see what happens in Russia. I think it's amazing that those of us who are in golf could even be thinking about (a Russian market)."

And Jim Hinckley, president of Club Corp. America International, headquartered in

'There are more than 500 new courses planned in Europe and many more plans are being made, and a lot of Europeans are looking to the U.S. for information.'

— Allard Hoogland
managing partner of Expoconsult

Houston, Texas, and the world's largest club management company, said his firm is very busy developing golf courses and resorts in Europe, especially in Germany, France and Spain, Portugal and Italy.

What's lacking

McLoughlin said golf course developers in foreign countries:

- lack an adequate education in course maintenance and operating the equipment;
- need help in overall management of their properties; and
- most often can't afford the "heavy-weight" architects, who generally make their own management teams available.

McLoughlin said, "The Dyes, Palmers, Nicklauses — the heavy hitters — are (involved) all over the world."

Yet only the 10-15 percent of the new courses that are exclusive private clubs or resorts can afford those "big names," he said, and "when you look below the American heavyweights you see a very steady, very strong growth in the developing of golf courses by local designers and contractors..."

"There's a scrambling going on" among those architects who are designing courses below resort level for the average player, and that's the essence of the game... what's going to establish the growth of the game overseas," McLoughlin added.

American architects in fact are in high demand. Some are accepting European proposals; others are staying close to home where they find they have enough business to keep them busy.

Tom Fazio, with six children at home in Florida, is content to stay basically in the Eastern United States — despite repeated calls from a Japanese contingent intent on recruiting his talents.

Fazio acknowledges golf's explosion. "If you were looking at where the hot spots of golf are, it's here, it's Europe, it's Asia, it's all over..." he said. "The interest in golf is continually going up. Seve Ballesteros, Bernhard Langer, all the European players, with the European tour growing so well, and such popular players, and the Ryder Cup victory just recently, international competition has really spurred golf substantially in Germany, France, Italy and Spain, just all

over..."

Architect Keith Foster at Arthur Hills and Associates in Ohio said, "We've been getting inquiries but we're not interested yet. We just turned down a course in Saudi Arabia because of the time involved (in the travel)."

And Jeffrey Brauer of Golfscapes in Arlington, Texas, with a growing family at home, has decided against pursuing inquiries from people from France, Japan and Sweden among other countries.

But many architects are tapping into the overseas market. The Joneses, Robert Trent Sr. and Jr., have both been designing courses on that continent, including one by Robert Jr. outside Moscow. Pete Dye, Palmer Design, Ron Fremme and Robert von Hagge and others are involved overseas.

Management inroads

Meanwhile, Hinckley's Club Corp. of America International has also made inroads in foreign countries.

"We now are building two country clubs in Germany, one city club in Germany and are looking at a couple of sites outside Paris," said Hinckley.

Hinckley said that in the past European courses were built by groups of golfers, and the result was "plain vanilla golf courses." His company is concentrating on the high-end resort courses.

CCA International, which investigated the European market in 1986 and in cooperation with Deutchbank in Germany formed a company called Club Corp. of Europe, has since begun acquiring land to build and operate country clubs in Germany, Italy, France, Spain and Portugal. Hinckley said he has nine projects in Spain, Italy, France and Germany in which the company is finishing the contracts for the land.

"With the opening up of the European Common Market in 1992 you are starting to see a lot of development in Spain, particularly in the resort area," Hinckley said. "Spain will be the big growth area. In France and Germany it takes two to three years to get permission to develop... Spain is less complicated and it's not as difficult to obtain a permit there. Also, Spain is trying to encourage growth, particularly in the resort areas."

Hinckley said 90 percent of the golf courses being built in Europe are on land leased from converted farms and on old family estates that have 150 to 200 acres of unused land.

"There are a few superintendents over there from the United States and quite a few from the United Kingdom," Hinckley said. "What you're going to find is more international-level golf courses with higher maintenance standards. You're going to have to develop more qualified talent over there, and some of that is going to have to be brought over from the United States — superintendents who in turn can train some of the locals."

Foreign visitors

Don Padgett, director of golf at Pinehurst (N.C.) Country Club and regional director of golf operations for CCA subsidiary Club Resorts, said contingents from foreign golf course developers visit his course on fact-finding trips every couple of weeks.

"They don't have the people (trained) to maintain the courses or run the clubs," Padgett said. When they come to this country and CCA they look at what they have for a pool at home and see that it's not so full."

Lack of training in operating golf courses is a major obstacle for foreign developers, Padgett said. "A lot of education has to be done. Probably the largest change in American golf in the last 20 or 30 years has been in the conditioning of the golf courses, and that's not going to happen (overseas) overnight... I'm talking about the upkeep and quality of the planing surface."

Padgett said when foreigners who plan to develop courses see the condition of American courses firsthand "that's exactly what they're going to want over there (abroad)."

And "I'm sure most of the American companies will be there to help them," he added.

Hoogland of Expoconsults said the number of golfers in Europe has doubled in the last decade and that number is expected to double again in the next 10 years.

All parties involved agree the scramble to fill the needs of all those course developers will be interesting.

Europe

Continued from page 1

information about all aspects of planning and running a golf course, and Golf Course Europe will, for the first time, be a specialized meeting point for them. He said he expects between 100 and 150 exhibitors this first year.

"It will be an event, not for the golf public but only for golf course supervisors and golf club managers," the conference brochure says. "On design and financing, on equipment and golf shop management: at GCE '89 one will be able to get all necessary information."

"There will be plenty of opportunity to develop a new outlook on the problems of the existing and newly planned golf

courses of Europe during the conference sessions."

Hoogland has put out a call for technical, instructive and commercially relevant papers for presentation at the conference. People should send a 200-word summary that Expoconsult must have in hand by April 21. Organizers will select the papers by June and typewritten papers will be required by Aug. 25 so that they can be printed for delegates at the conference.

"We start marketing the program in June. So it will give us ample time to be ready in October," Hoogland said.

The agenda for Oct. 4 includes golf course design principles, financing new golf courses, legal and tax matters, and

clubhouse architecture and infrastructure.

The Oct. 5 sessions will cover the European golf market in the 1990s, golf shop management, the golf club as a going concern, and sponsoring, green fees and advertising.

The topics for Oct. 6 include irrigation techniques, remodeling golf courses, golf course maintenance principles, and public golf courses.

Hoogland is also pulling together industry suppliers for "the only European trade exhibition," and he is selling the show as "a unique opportunity for every company marketing to this rapidly growing market."

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CALENDAR

April

1-6 — American Society of Golf Course Architects annual meeting at Pinehurst (N.C.) Hotel.

4 — Annual Golf Writers Association of America board of directors dinner and meeting at Town Tavern in Augusta, Ga., at 7 p.m.

5 — Golf Writers Association of America semi-annual general membership meeting at 10 a.m. at Press Interview Building at Masters in Augusta, Ga.; nominating committee of the PGA World Golf Hall of Fame at 2 p.m. on second floor of Tournament Headquarters Building; and annual GWAA Masters dinner and cocktail party at 6 p.m. at Julian Smith Casino.

4-6 — British Institute of Groundsmen and Groundskeepers National Conference. Contact Neil Thomas at 0274-560556.

5 — USGA Green Section Conference at Lakeside Country Club, 61st St. and Lewis Avenue, Houston, Texas, conducted in cooperation with the South Texas GCSA and Houston Golf Association. Register with Roger A. Harvie, manager of regional affairs, USGA, 4200 Northside Parkway, N.W. 9-100, Atlanta, Ga. 30327.

9-10 — Club Managers Association of America's Conference 1990 Committee Meeting in Orlando, Fla. For more information contact the CMAA, 7615 Winterberry

Place, Bethesda, Md. 20817; 301-229-3600.

10 — USGA Regional Section Conference at Seattle (Wash.) Golf Club, 210 NW 145th St., conducted in cooperation with the Pacific Northwest Golf Association and Oregon Golf Association as well as local chapters of the GCSAA, CMAA and PGA. Register with Ron Read, USGA, Box 730, Pebble Beach, Calif. 93953; 408-624-2011.

11 — USGA Green Section Conference at Oakmont (Pa.) Country Club, conducted in cooperation with the Greater Pittsburgh GCSA. Register with Eric G. Shiel, USGA, P.O. Box 708, Golf House, Far Hills, N.J. 07931-0708.

13-14 — Plant Nutrition and Fertilizers seminar, conducted in Palm Springs, Calif. *

16-17 — Club Managers Association of America's Executive Committee meeting in Washington, D.C. For more information contact the CMAA, 7615 Winterberry Place, Bethesda, Md. 20817; 301-229-3600.

17 — Golf Course Safety, Security and Risk Management seminar, conducted in Washington, D.C. *

17-19 — Club Managers Association of America's Long Range Strategic Planning Committee meeting in Washington, D.C. For more information contact the CMAA, 7615 Winterberry Place, Bethesda, Md. 20817; 301-229-3600.

Pete Dye

Continued from page 1
lem," said Dye, who will be succeeded by Robert Trent Jones Jr.

Saying that environmental regulation is necessary and important, Dye said that when a golf course or development is planned, it means a 150- to 500-acre impact on an area, and "you're going to have a lot of governmental agencies getting into the act from every side."

For the golf course designer and builder this means added cost and the needed expertise in new areas, such as traffic pest-control studies.

"All these young fellows getting into designing have to learn to coordinate and cooperate with all the different agencies, all the different engineering firms, all the different land planners to coordinate all of this," Dye said. "It's good in a lot of ways and yet it's frustrating; it's always frustrating but it's good that they have to be more professional."

Dealing with all those parties is going to be "the biggest problem to deal with," he said.

Dye defended golf courses against those who would attack them on environmental terms.

"In every place I think the environmental people have gone overboard on some of the requirements," he said, "because on a golf course — if the golf course is built and designed properly — you can create an environment that is as good as some of the natural environment."

"And people forget that this old world has been here an awful long time and there have been a lot of changes," he added, "and, also, all the chemicals that are put on a golf course are so monitored now that they're not hurting the bird life or the wildlife... As a matter of fact, it's difficult to find a chemical that will protect a golf course against undesirable worms and bugs because they are

20 — USGA Regional Green Section Conference at Troon Golf and Country Club, 2500 Windy Walk Drive, Scottsdale, Ariz., conducted in cooperation with the Arizona Golf Association and local chapters of the GCSAA, CMAA and PGA. Register with Ron Read, USGA, Box 730, Pebble Beach, Calif. 93953; 408-624-2011.

20 — USGA Green Section Conference at JDM Country Club, PGA Boulevard, Palm Beach Gardens, Fla., conducted in cooperation with the Florida GCSA and Florida State Golf Association. To register contact Roger A. Harvie, manager of regional affairs, USGA, 4200 Northside Parkway, N.W. 9-100, Atlanta, Ga. 30327; 404-233-2196.

22-23 — Club Managers Association of America's Certification Committee meeting in Washington, D.C. For more information contact the CMAA, 7615 Winterberry Place, Bethesda, Md. 20817; 301-229-3600.

May

21-22 — California GCSA meeting at Pala Mesa Resort.

28-31 — FIS (International Federation of Seedsmen) Congress will be held at the Ramada Renaissance Hotel in Jerusalem, Israel. Register with Arlinda Dorsett, Secretary to International Marketing Director, American Seed Trade Association, 1030 15th St., N.W., Suite 964, Washington, D.C. 20005.

June

1-2 — ASSINSEL (International Association of Plant Breeders for the Protection of Varieties) Congress at the Ramada Renaissance Hotel in Jerusalem, Israel. Register with Arlinda Dorsett, Secretary to International Marketing Director, American Seed

Trade Association, 1030 15th St., N.W., Suite 964, Washington, D.C. 20005.

7-8 — Landscape Industries Exhibition at the National Agricultural Centre in England. Telephone 0203-696969 in England.

25-29 — American Seed Trade Association meeting, including election of officers, at J.W. Marriott Hotel in Washington, D.C. Contact ASTA at Suite 964, Executive Building, 1030 15th St., N.W., Washington, D.C. 20005; 202-223-4080.

September

19-21 — Royal Windsor '89 Institute of Groundsmanship Sports and Leisure World Trade Exhibition at the Royal Windsor Racecourse in England. Telephone 0908-311856 for information.

October

4-6 — Golf Course Europe, an international exhibition and conference on the design, construction and maintenance of golf courses and on golf club management, at Rhein/Main Halls, Wiesbaden, West Germany. For more information contact Allard J. Hoogland at Expoconsult, P.O. Box 200, 3600 AE Maarssen, Holland; telephone 03465-73777.

November

4 — Lawn Seed Conference at Crown Center Hotel in Kansas City, Mo. For more information contact the American Seed Trade Association, 1030 15th St., N.W., Suite 964, Washington, D.C. 20005.

* — For more information contact GCSAA, 1617 St. Andrews Drive, Lawrence, Kan. 66046; telephone (800) 472-7878.

Advancing game is aim of new golf publication

Teaching & Coaching News, a quarterly publication of Practice House Golf, Inc., in South Bend, Ind., debuted in January.

Its aim is advancement and improvement of the game of golf and is available upon request to country clubs, golf retailers and interested parties.

James S. Williams is publisher, Brett Ann Holloway editor-in-chief and Michael Hebron contributing editor. Practice House Golf's address is P. O. Box 1496, South Bend, Ind. 46624.

ASGCA

Continued from page 1

for associate membership, which is by far the largest number of applicants than every before.

"This all reaffirms the case that golf course architecture and construction is a very hot business at the time."

Fullmer said the environmental impact of golf courses around the country is high and "most of our professional development will be focused on that area."

Each day time for golf or the ASGCA Golf Tournament is set aside, but the cornerstone of the convention are the "professional development seminars":

• Dr. Joe Beditz, executive vice president of the NGF, will speak at 3 p.m. April 2 on the NGF and its role in golf course develop-

ment.

• Pete and Alice Dye, Michael Hurdzan and Bobby Jones will speak on "The Environmental Challenge" at 9:45 a.m. April 3.

• A USGA Green Section update will be given by the section's national director, Bill Bengueyfield, at 8:30 a.m. April 4.

• Don Knott and Damian Pascuzzo will speak on "Computer-aided Golf Course Design" at 8 a.m. April 5.

• And Stuart Cohen, a consultant with Biospherics, Inc., will talk on "Golf Course Ground Water Contamination" at 10:15 a.m. April 5.

Another highlight, the 14th annual Donald Ross Banquet, will be held at 7:30 p.m. April 3.

The President's Dinner is scheduled for

worried about hurting other wildlife."

Scientific progress has also helped architects and developers, Dye said.

"Now we have the knowledge of how to control our runoff and our ground water and you'll see it more and more going into new golf courses," he said. "And even though it's expensive, it's not prohibitive to control it, so I think (members of) the American Society of Golf Course Architects have a common problem and are getting more professional in how to handle it."

But Dye said it is possible to satisfy all parties.

He cited Old March in North Palm Beach as a case in point. "We were able to contain all the water within the golf course and filter it and run it back in in better quality than it was before. From that particular project we got great acclaim from the EPA (Environmental Protection Agency) and other groups."

7:30 p.m. April 5, and Pete Dye will hand the gavel over to incoming President Robert Trent Jones Jr.

A breakfast at 7 a.m. and board of governors meeting from 8-10 a.m. April 6 will close out the conference.

All sessions are being conducted at Pinehurst Hotel.

Fullmer said a handful of associate members will become full members at the conference.

Those who will be voted upon for associate membership must have supervised construction of five regulation golf courses. If accepted, they will be associate members for three years and will have had to remain active designing courses during that time before becoming full members.



Robert Trent Jones Jr. will take over as president of the American Society of Golf Course Architects from Pete Dye at the President Dinner on April 5.

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Sonar® weed control...

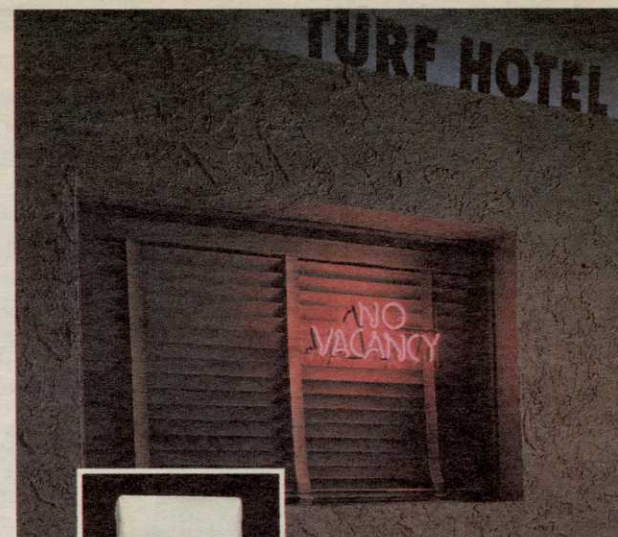


Sonar clearly tells its own story. With season-long aquatic weed control that other aquatic herbicides cannot deliver. Sonar targets specific plants like water lily, hydrilla, duckweed and many other weed problems. And controls them all season long whether you apply before they come up or after.

Unlike other aquatic herbicides, the Sonar label doesn't restrict swimming, fishing or drinking. So restrict your aquatic weeds, not your aquatic use. Try Sonar. And weed out your water without the worry. For details, call toll-free: **1-800-352-6776**.

Circle No 146

With Team™ on your turf, weeds won't check in for 20 weeks.



Sorry, crabgrass. Sorry, goosegrass. You won't be checking in here this season. Not on turf areas treated with Team™ preemergence herbicide.

Only one group has reservations. Your turfgrass. Even bentgrass can relax, Team is that gentle.

That means you can take a 20-week vacation from weeds. From disgruntled golfers. From callbacks. And costly reapplications.

Team is widely available on dry fertilizer from leading formulators, and in granular form from your distributor.

So if weeds are planning to visit your turf this season, tell them sorry. You've booked Team for the season. See your Elanco distributor. Or call toll-free: **1-800-352-6776**.

Circle No 147

Spray herbicide directly over the top of your established shrubs and ornamentals? Go ahead. Surflan® lets you spray with complete confidence.

All you'll see are the bright colors of your landscape or lawn. No crabgrass. No oxalis. No chickweed. And no prostrate knotweed and 50 other grasses and weeds, either. You won't see them for six to eight months, in fact, when you spray Surflan preemergence herbicide.

You'll also see Surflan is more stable on soil surfaces. It'll wait three weeks for water. Then it stays put,

even in heavy rainfall, to provide outstanding weed control. Yet it's gentle enough to spray over the top of 175 different ornamentals.

So go ahead. Fill up with Surflan and take your weed control where you never thought possible. Over the top of your ornamentals without injury. See your Elanco distributor. Or call toll-free: **1-800-352-6776**.

Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Dept. E-455, Indianapolis, IN 46285, U.S.A.
Surflan®—(oryzalin, Elanco)

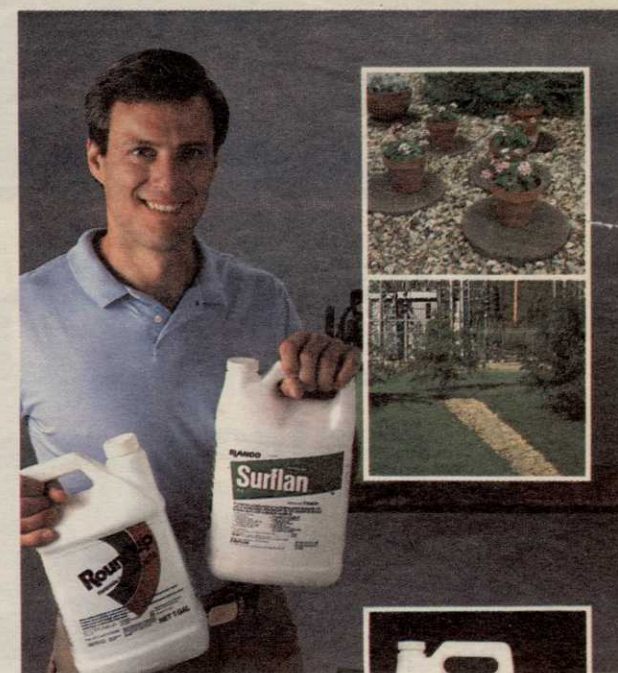


Circle No 148



Take your weed control where you never thought possible.

"I can control weeds three times longer just by adding Surflan® to my Roundup®."



Surflan. Roundup. Mix them together, and you've got control that knocks weeds down and keeps them down. Three times longer, in fact, than Roundup alone.

That's what landscapers all across the country are now finding. They're getting better weed control and more satisfied customers. And they're saving time and labor costs because they're applying just once.

With a Surflan/Roundup tank-mix, you get complete control of over 50 different weeds—including such tough species as crabgrass, barnyardgrass, chickweed, spurge, johnsongrass and foxtail. And Surflan won't harm your nearby landscaped areas, either. It works with little or no lateral movement.

For details, see your Elanco distributor. Or call toll-free: **1-800-352-6776**.

Circle No 149

Surflan®—(oryzalin, Elanco)
XL™—(benfen + oryzalin, Elanco)
Team™—(benfen + trifluralin, Elanco)
(Refer to the XL and Team labels for complete use directions.)
Sonar®—(fluridone, Elanco)
Ronstar® is a registered trademark of Rhone-Poulenc.
Roundup®—(glyphosate, Monsanto)



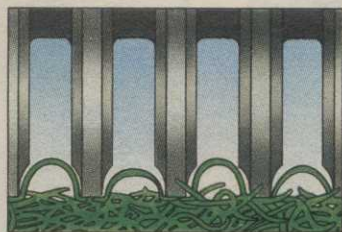
The proof is in the putting.

The Greens King® IV with the revolutionary new Turf Groomer™ greens conditioner has no equal for producing faster, truer greens, *without* lowering height of cut.

This unique, patented greens care system, a Jacobsen exclusive, concentrates on troublesome thatch and horizontal runners that can slow down putting, or even throw off putting accuracy.

The front roller "puckers up" horizontal runners and plant leaves, readying them for clipping.

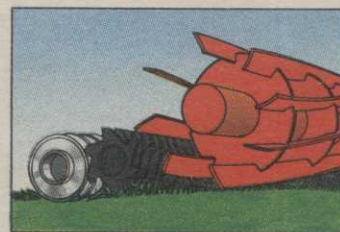
Then, the powered knife blades



Exclusive roller design features bevelled edges to "pucker-up" horizontal runners.



The knife blades rotate through slots in the front rollers, slicing horizontal runners before they lie down.



The horizontal reel follows closely behind to clip grass while it's standing straight, for faster, truer greens without lowering height of cut.

rotate *through* the slots in the front roller, cutting horizontal runners and removing thatch that can choke a green to death.

The reel follows closely behind, neatly cutting the grass while it's still standing straight and true.

The result: Faster, truer putting and healthier, hardier greens, ready for play. And, you get all this

without reducing the height of cut.

So, contact your Jacobsen Distributor to arrange a free demonstration. And, put this revolutionary new greens care system to the test on your own proving ground.

Finance plans available. Jacobsen Division of Textron Inc., Racine, WI 53403. Telex: 264428.

Greens King and Turf Groomer are trademarks of Jacobsen Division of Textron.

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For free information Circle No 141