

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

A UNITED PUBLICATION
VOLUME 5, NUMBER 3
MARCH 1994 • \$4.50

INSIDE

Of Surfers & Seals

A course proposed for the California coast has made seal-huggers of local surfers 3

Golf and Taxes

It's tax season, and there are things you should know about the perceived value of your course 11

Bye, Bye Birdie

Some birds you want, some you don't. Learn how to attract purple martins and get rid of geese 16, 70



COLLEGES TAKE SPIRITED RESEARCH STANCE

Spring break is fast approaching, but the nation's collegiate turf programs continue to produce. Working golf course laboratories will soon be realities at Clemson, UGeorgia and Penn State. Meanwhile, superintendents are scrambling to attract the best turf scholars. See pages 15, 21-23.

COURSE MAINTENANCE

Colliers breaks new ground with Audubon 15
Focus on the Bechdolt & Bonino broods 20
Tour of Duty: From Arizona to Louisiana 27

COURSE DEVELOPMENT

Gotham Golf: New digs for Big (Apple) Hitters 41
Q&A with super-turned-architect Bobby Weed 41
Matthews: 'Get superintendent involved early' 44

COURSE MANAGEMENT

Automatic balloting defeated at CMAA meeting 49
Western Golf eyes acquisition strategy 49
Record attendance at NGCOA conference 51

SUPPLIER BUSINESS

Ransomes America streamlines turf operation 59
Scotts to sponsor The Tradition 62
What's new in the marketplace? 65

Mortality study raises questions, eyebrows

By HAL PHILLIPS

DALLAS—Golf course superintendents were 79 percent more likely to contract large-intestinal cancer and 36 percent more likely to contract lung cancer than the public at large, according to phase-one findings of a University of Iowa mortality study commissioned by the Golf Course Superintendents Association of America (GCSAA).

Death certificates of 618 former GCSAA members — who died between 1970 and 1992 — were gathered as part of the research, conducted by Dr. Burton Kross,

UI associate professor of preventive medicine and mental health. Of the 618 deaths, 179 were cancer related.

"Because this is a statistical study, you can't establish any cause-and-effect relationship from the data," said Kross, who presented the study's findings at February's GCSAA conference in Dallas. "Results of the mortality study provide GCSAA with a scientific basis to encourage stop-smoking programs and improved pesticide-handling practices among its members."

Continued on page 32

GCSAA WRAP-UP

- Officers elected; all but two bylaws pass, p. 29
- Renovation and the superintendent, p. 30
- Byron Nelson receives Old Tom Morris, p. 33
- New technologies, products unveiled, p. 34
- Alice Dye honored with Rossi Award, p. 36
- Bob Friend garners GCSAA title, p. 38

Golf Cars: Who has the purchasing authority?

By PETER BLAIS & HAL PHILLIPS

SAN ANTONIO, Texas — Wine, lockers, E-Z-GO, dinnerware, clubhouse architects, Club Car, chocolate mints, table linen, Yamaha, accounts software, tennis court contractors, Melex.

And so it goes, as one strolls the aisles and gazes into the booths at the Club Managers Association of America annual exposition here.

This is the third national trade show that golf car and utility vehicle manufacturers regularly attend. Those companies are also a major presence at the annual superintendents' and golf professionals' shows. They are easily the most visible segment of the golf industry to attend all three.

Just who is responsible for ultimately deciding what brand of golf cars to buy?

"This is something we've struggled to define since I

Continued on page 54



PUBLIC ENEMY #1

Mole crickets cause more damage to Southeastern golf courses than any other pest. How do you kill 'em? Superintendents and scientists — including the University of Florida's Dr. Howard Frank — are experimenting with traditional and biological weapons. See special report, pages 24-26.

Rohm & Haas wins Dimension sweepstakes

By HAL PHILLIPS

ST. LOUIS — We have a winner.

After months of speculation and negotiation, Monsanto has signed a letter of intent to sell Dimension turf herbicide and other products in its worldwide pyridine family of chemistry to Philadelphia-based Rohm and Haas Co.

The sale is expected to be completed by mid-year, according to James Budzynski, Monsanto's product director for dithiopyr, the active ingredient in Dimension. No

Continued on page 62



Dr. James Watson

Architects honor Dr. Watson with '94 Ross Award

By MARK LESLIE

"Surprised but delighted" at his selection, turfgrass research and management pioneer Dr. James

R. Watson will receive the American Society of Golf Course Architects' (ASGCA) 1994 Donald Ross Award.

A vice president and agronomist with The Toro Co. who has been working with golf course architects on turf problems for more than 40 years, Watson will accept the award at the annual Ross Award Dinner on April 18, at the Olympic Club in San Francisco. The banquet will highlight the society's annual meeting.

Only the second agronomist chosen for the award in its 19-year history, Watson explained: "Their [architects] job isn't finished with the design. They still have to oversee construction of the golf course. A lot of the work I've done has involved soils for putting greens, modification of fairways and management of the golf course from the turfgrass standpoint."

Continued on page 47



The stately 18th at Minisceongo Golf Club in Rockland, N.Y. This Roy Case design opens in June.

New Course Listings
Page 45

Robert Hook photo

Fore.



M E D A L I S T™

The Medalist will send the competition scattering. It has fluid form, flawless function. The perfect balance between a smooth, luxurious ride and durable, long-lasting performance. Quite simply, the Medalist is the most profitable golf car you can buy. Call 1-800-241-5855. We'll put you in touch with your nearest E-Z-GO representative. Then you can test ride the car that's keeping the competition on their toes.

EZGO TEXTRON
E-Z-GO Division of Textron Inc.
THE NAME OF THE GAME.

©1994 E-Z-GO Textron Location Courtesy of Arrowhead Golf Club, Denver, Colorado. A National Golf Property Operated by American Golf Corporation.

NEWS IN BRIEF

McALESTER, Okla. — Thundercreek Golf Course project manager Sam Green thinks an 18-hole course here could be open May 1. Green said March will be a big month. "If we avoid bad weather, sprigging and seeding should be done in late February or early March. This will allow the grass to have growing time to be playable by May 1."

...

MARYSVILLE, Ohio — Richard B. Stahl has been named senior vice president of The Scotts Company. Stahl, who joined Scotts in 1967, will be responsible for integrating Grace Sierra, Scotts' most recent acquisition, into the organization and providing for an orderly transition of management of the Professional Business Group. Stahl will also continue to serve as Scotts representative in RISE, NACA and the GCSAA.

...

PALM BAY, Fla. — The City Council and the Recreation Advisory Board here plan to huddle with representatives of four firms vying to design Palm Bay's proposed golf course. If approved, the course would be built on a vacant parcel south of City Hall. The applicants are Clifton, Ezell and Clifton Golf Design Group of Deltona; Ronald M. Garl Golf Course Design Inc. of Lakeland; Sanford & Associates of Jupiter; and Robert Trent Jones II of Palo Alto, Calif.

...

ARBUCKLE, Calif. — A golf course aimed to place and keep youth on the right track has been proposed for a site west of this town, 45 miles north of Sacramento. The Elite Golf Club, formed by Pittsburg's Jess Turner in 1988 to get youths interested in golf instead of drugs and crime, would shift its base from the city-owned Delta View Golf Course in Pittsburg to the proposed course, tentatively named Rancho del Sol. Work on the driving range has begun, and Turner hopes the course will be open in two years.

Surfers & seals keep ARCO project on hold

By PETER BLAIS

GOLETA, Calif. — The California Coastal Commission will choose between surfers, seals and slices this April.

That's when it will hear an appeal filed by the Surfrider Foundation challenging the local government's approval of Atlantic Richfield Co.'s proposed golf course on an oil drilling facility west of the city.

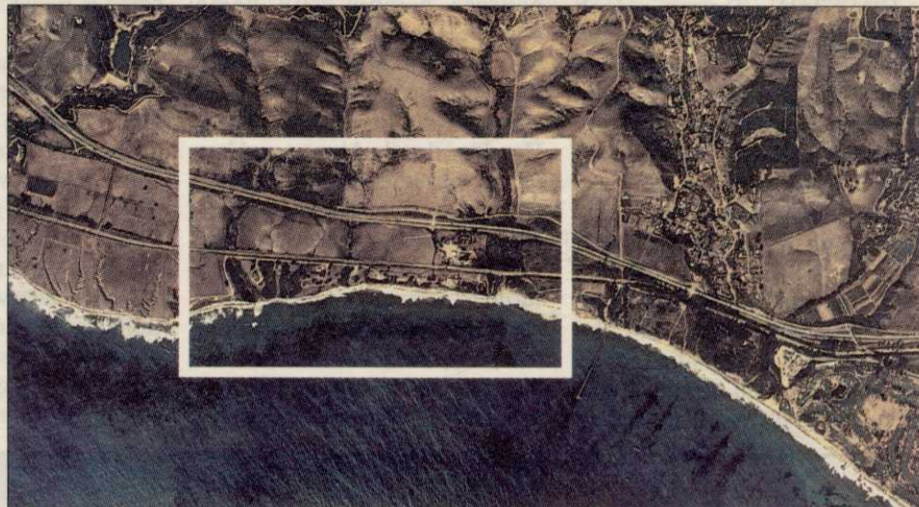
Surfers have traditionally trespassed over the private property to reach beaches near Naples Reef. Their organization claims a golf course will stop them from doing so. They also claim errant balls and golfer traffic could pose a threat to the harbor seal rookery at the base of the 50-foot cliffs.

ARCO counters that the Ben Crenshaw/Bill Coore-designed Dos Pueblos Golf Links will beautify the ravaged site. The company has offered to build two paths surfers can use to reach the beach. And it believes surfboards are more dangerous to the nesting seals than the occasional mis-hit golf ball.

"We've offered to provide public access, but within our budget constraints," noted Whitt Hollis, ARCO's local manager of land services. Hollis said surfers and Coastal Commission staff want ARCO to build, maintain and staff the trail around the clock to insure user safety.

"We don't want or feel it's fair for ARCO to absorb that cost," Hollis added. ARCO presented plans for an 18-hole championship course, nine-hole par-3, clubhouse and seven-acre paved parking lot last year. The price tag for the 250-acre project was \$10 million.

The Santa Barbara County supervisors unanimously approved Dos Pueblos last



The Dos Pueblos site at Goleta (above), as seen through the lense of an aerial photographer, looking East. The existing golf course visible at far right is Sandpiper. The highlighted area in the above photo is enlarged, at left, showing how the proposed Coore/Crenshaw course would be routed.

August. ARCO was therefore fairly confident the Coastal Commission would approve the concept when it met in December. But to the company's surprise, the Coastal Commission staff recommended vetoing the project.

The reason was zoning. The land was rezoned for agricultural use several years ago, even though it hasn't been used for farming since the 1920s.

Fearing a golf course would erode the area's rural atmosphere by encouraging neighboring development, the Coastal

Commission staff recommended against allowing a golf course on the rurally zoned property.

In light of the staff's findings, which weren't available until early January, ARCO asked the full Commission to delay its decision until April, giving the company an opportunity to address zoning concerns.

"The staff said the property must first be rezoned for recreational use before it could recommend approving the project," Hollis said. "We believe current zoning regula-

Continued on page 54

Suppressing Poa Annua Seedhead...

No other soil wetting agent suppresses Poa annua seedhead emergence while it helps to move water deeply and uniformly throughout the rootzone. Isn't it time you give AquaGro® a try?

... Another Reason To Use AquaGro.

AQUATROLS

The Water Management People

800-257-7797

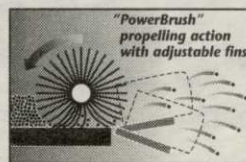
From anywhere in the U.S. and Canada.

The Millcreek 75TD. The Topdresser designed for daily fee courses and daily fee budgets.



Somewhere between the fussy finesse of a greens topdresser and the huge expense of large capacity units - that's where the Millcreek 75TD Topdresser fits in. You might think of it as a heavy duty all

around spreading machine for a multitude of jobs around your course: topdress fairway areas (many use it on greens and tees with great results), load sand into bunkers, spread wood chips on trails, and more. Plus, the Millcreek 75TD is unsurpassed as a grass clipping disperser, saving high disposal costs for many courses. You'd expect to pay around \$10,000 for a machine of this quality. But just wait until you see the price.



Patented Spreading Action

Millcreek's patented "PowerBrush" action and adjustable directional fins enable you to spread almost any flowable material in paths from 3' to 10' wide. A single operator needs no tools for safe, easy adjustments. PTO or engine-drive. 2 cu. yd. capacity.

MILLCREEK
MANUFACTURING CO.

2617 Stumptown Rd.
Bird-in-Hand, PA 17505

1-800-879-6507

Dealer inquiries invited.

Melnyk, Burke joust over Champions moniker

HOUSTON, Texas — Jack Burke Jr., who with fellow pro Jimmy Demaret formed The Champions golf club of Houston in 1938, may have taken round one — but Steve Melnyk isn't about to throw in the towel.

After filing suit against Champions Golf & Country Club in Rogers, Ark., a jury ruled that Burke's trademark name had been infringed upon and the Rogers club must change its name. Burke said he would stay on the court playing field until all

courses comply with name change. He said that, "for 35 years we've done a lot of hard work to make Champions what it is. I don't want any confusion surrounding it." He added that the biggest problem he had with others using the Champions name is the confusion it will create for champions from the club.

Enter Melnyk, the tour player-turned-TV broadcaster who owns Riverside Golf, a management company that looks after no less than five courses named Champions Club. Melnyk said his club's

name is registered with the U.S. Patent Office.

"I respect what Jackie Burke is doing out there in Houston," Melnyk told the *Houston Post*, "but it has no bearing on what we are doing here. I went out to meet with him and try to resolve it, but without success. I can't stop one's ego from running amok."

In his own version of Target Golf, Burke said the next lawsuit would be against Champions Club course in Lexington, Ky. That case is to be heard in April.

Missouri track secures zoning approval

SPRINGFIELD, Mo. — A proposed 18-hole golf course, centerpiece of a development at Evans Road and U.S. Route 65, has received county rezoning approval and has a name — Millwood Golf & Racquet Club.

The next step is selecting a golf course architect. Construction hopefully will begin this spring. The course could be ready for limited play late this summer. The daily-fee facility will feature from three to

five tees on each hole.

Developer Keith Keltner plans to offer semi-private club memberships that would include preferred tee times. The clubhouse will encompass a restaurant, lounge and meeting banquet rooms.

The \$75 million project embracing 180 acres will have 50 to 75 "villa" homes, smaller, leased houses built closer together and termed by Keltner "upscale but affordable."

Mission, Texas muni looks to add nine holes

MISSION, Texas — Shary Municipal Golf Course generated \$1 million in the year dating from Sept. 30, 1992.

That's sufficient cause to favor adding nine holes to the 18-hole layout and constructing a driving range.

Mayor Ricardo Perez said the city may buy a 60-acre tract of land east of Mayberry Road and south of Griffin Parkway for the expansion. The expansion and range could be ready next fall.

Said Perez: "It's an economic tool in that it attracts a lot of winter tourists who want to reside and settle in Mission. So we thought we'd enhance the course for the golfers — and for more revenues."

Second-class postage paid at Yarmouth, Maine, and additional mailing office. *Golf Course News* (ISSN 1054-0644) is published monthly by United Publications, Inc., 38 Lafayette St., P.O. Box 997, Yarmouth, ME 04096. Phone number is 207-846-0600.

The publisher assumes no responsibility for unsolicited material or prices quoted in the newspaper. Contributors are responsible for proper release of proprietary classified information. Copyright 1994 by United Publications Inc. All rights reserved. Reproduction, in whole and in part, without the written permission from the publisher is expressly prohibited.

Reprints and permission to reprint may be obtained from Managing Editor, *Golf Course News*, P.O. Box 997, Yarmouth, ME 04096. Back issues, when available, cost \$5 each within the past 12 months, \$10 each prior to the past 12 months. Back issue orders must be paid in advance either by check or charged to American Express, Visa or MasterCard.

Golf Course News is distributed in the U.S. without charge to qualified personnel of golf course facilities and to golf course builders, developers and architects. Subscriptions to Canadian golf facilities cost \$25 annually; other paid subscriptions to the U.S. and Canada cost \$45. All foreign subscriptions cost \$125 annually to cover air delivery. All payments must be made in U.S. funds drawn on a U.S. bank. **For subscriber services, please call 215-788-7112.** Send address changes to *Golf Course News*, P.O. Box 3047, Langhorne, Pa. 19047-3047.

WHAT THIS MACHINERY DOES TO YOUR GRASS, PRIMO



GET UP TO \$80 CASH BACK WHEN YOU BUY PRIMO.



Now through April 1, 1994, you're eligible to receive \$15 cash back when you buy one quart of Primo®. Or, \$80 cash back when you purchase one quart along with two 1-gallon containers of Primo.

Just fill out the information below, and mail it to Ciba Turf & Ornamental, Primo Rebate, P.O. Box 19900, Greensboro, N.C. 27419-9900. And be sure to attach a distributor's invoice to verify your Primo purchase.

Limit one rebate per customer. *To be eligible, purchase must fall between December 1, 1993 and April 1, 1994. All submissions must be postmarked by April 15, 1994. Allow 6-8 weeks for rebate return. Offer limited to states where Primo is registered and to turf management professionals only.*

☐ **\$15 for 1 quart**

☐ **\$80 for 1 quart and 2 gallons**

Name _____

Business Name _____

Address _____

City _____ State _____ Zip _____

SSN/Tax I.D. _____

For Ciba Use Only _____

6150TT90A0 RAMAC 58960 Program 40304

Primo is a registered trademark of Ciba-Geigy Corporation. Always read and follow label directions.

GCN 3

New USGA head: Green Section a priority

By MARK LESLIE

Saying research is "far ahead of what most people realize," the new president of the U.S. Golf Association (USGA) revealed the association will initiate an extensive effort to inform the public of the advances and findings of that research.

While observing its 100th birthday, the USGA needs to "make certain we look forward as well as backward," said Reg Murphy, of Baltimore. "In terms of the Green Section, great progress has been

made in developing new turfgrasses. Now we need to see more of them growing on golf courses. The amount of work that has gone into grasses that require less water, fertilizer and maintenance is critically important to both the economics of local golf courses and the environment."

The Green Section, he said, will begin "an extensive program this year to describe what we have



Reg Murphy

learned in the environmental research projects. We hope to get that out to everybody who's interested, including every green superintendent in the country, with seminars, publications — all the tools of communication."

[*Golf Course News* has already initiated a column, *Off the Record*, where Green Section will release research information. See page 24.]

"With some minor exceptions,

golf courses have been very good for the environment. Not much of the material that has been put on golf courses has been getting into ground water," Murphy said.

While saying there is very little basis for "any of the fear that some extremists have tried to create," Murphy added: "But, it takes a long time for the extremists to be quieted by fact. We're going to have to be somewhat patient."

Murphy, 59, who retired last year as president and publisher of the *Baltimore Sun*, said the route to publicizing scientific studies is to:

- "establish a baseline of credibility" by getting scientists to

publish their findings in peer-review journals;

- present those finds in layman's terms to the general public; then

- organize public discussion of the issues.

"As you begin to do that, there will be an inevitable backlash against the people who tried to create all the fear. But that doesn't happen overnight," he said.

He promised: "We will not lessen our commitment [to turfgrass research] in any way. And we will continue the research that deals with fungicides, pesticides, ground water — all the elements we've been looking at the last few years."

The new budget is not quite as extensive as that for the last three years, when about \$4 million was spent, and groundwork laid for continued studies. Besides the funding for turfgrass breeding, the USGA will spend more than \$500,000 this year on research, Murphy said.

Citing superintendents as golf's "most underrated group," the Caves Valley Golf Club member said: "We play golf on great golf courses because somebody out there is paying attention to quality of turf. I'm glad we're doing things in conjunction with them that makes golf a better game."

Travel agents launch ambitious golf development

BURLINGTON, N.C. — Bill and Janet Winstead, operators of Travel Reservations Inc. here, hope to launch construction of the St. Clements Golf Club Community in the first quarter of 1994.

The multi-million complex — which will be surrounded by homes for more than 700 families, businesses and a conference center between Roxboro and Hyco Lake — could take up to 15 years to complete.

The Person County Planning Board and Board of Commissioners have approved the project. The course will be within easy reach of the 1,000 Hyco Lake resort area residents.

Attracting investors is the current aim of the Winsteds.

Resort planned for Denver suburb

BROOMFIELD, Colo. — A \$30 million resort featuring a 27-hole golf course will be built in this northwestern Denver suburb.

A 263-room hotel and an athletic club will be part of the Interlocken Conference Resort. The hotel will open in the spring of 1996. Recent voter approval of a \$12.1 million 9th Street Interchange at US-36 will provide access to the hotel and business park. International Hospitality Group of Arlington, Texas, is developing the resort component.

GOES TO YOUR MAINTENANCE COSTS.

You already know that

Primo® can reduce your fairway mowings by up to one-third.

But what you may not

have considered, is how fewer mowings can mean more free time for your crew to work on other projects.

And it goes without saying

that if you can get more done in less time, you save money.

It's all possible with Primo

for turf growth management.

Because Primo makes grass grow half as fast. And the cost of applying it is more than recouped by your lighter mowing schedule.

Contact your authorized

Primo distributor or Ciba

sales representative to learn more about how Primo can help you save time.

Because, as they say, time

is money.



CIRCLE #104

Turf research tax in hands of Ariz. Legislature

By MARK LESLIE

PHOENIX, Ariz. — Legislation that would assess 10 cents per round played at golf courses in the state to fund turf-related research and activities is in the hands of the Arizona state Legislature.

House Bill 2471, which would form the Arizona Turfgrass Commodity Council, was to go to the House floor at the end of February.

If passed into law, it will go into effect July 1 and the first collections from golf courses will take place in October, according to Mark Clark, president of the Cactus & Pine Golf Course Superintendents Association.

Clark reported "real cohesiveness" in the golf industry in support of the bill. It is endorsed by the Arizona Women's Golf Association, Junior Golf Association of Arizona, Arizona Golf Association, Southwest Section of PGA, Arizona/Nevada Club Managers Association and Cactus & Pine.

The Commodity Council, if approved, will allow the industry to self-finance appropriate programs beneficial to the green industry.

The council would be funded by assessments on golf course facilities based on the number of rounds played. Moneys would fund, among other things, research of low water-use grasses, thus promoting water conservation; research on the effects of various chemicals used on turfgrass; and research on the environmental implications resulting from golf course use of treated wastewater.

The council would be composed of 15 members appointed by the governor. They would represent the six participating organizations, city parks, public schools and other interests.

Similar commodities groups have been successfully formed for agricultural products — to promote research and marketing for their industries. This would be the first in the country for golf.

More information is available from Turfgrass Research and Communications, Inc. at 602-821-8145.

Indiana theme park to include course

PLAINFIELD, Ind. — A \$120 million theme park proposal embracing 120 acres for a golf course and land set aside for future development has been unveiled by officials of GRP Development Corp. of Bloomfield. They hope to open in the spring of 1997 a 425-acre complex at Ind. 39 and I-70 near Plainfield. Plans also call for a 65-acre theme park with 30 acres of commercial development, plus 65 acres of parking.

Nevada complex to include 36 holes

SPARKS, Nev. — Two 18-hole golf courses will be the centerpiece of a proposed 1,500-acre project in Spanish Springs financed by Squaw Valley residents Mr. and Mrs. David Loeb.

Mr. Loeb, chairman of Countrywide Credit Industries, envisions the golf course cost as up to \$8 million, combined, with a clubhouse tab of \$2 million.

The first course, targeted

for completion in 18 months, probably will be public.

The project will embrace 1,800 homes and a 200-room resort.

Pyramid Engineering of Sparks and San Francisco-based golf course architect Robert Trent Jones Jr. and EDAW Land Planners are working on the project.

The development wants to use recycled water for the golf courses.

Third course slated for Sun City

LAS VEGAS, Nev. — A new executive golf course and an additional 1,700 homes are the latest projects planned by the Del Webb Corp. for its Sun City Las Vegas complex.

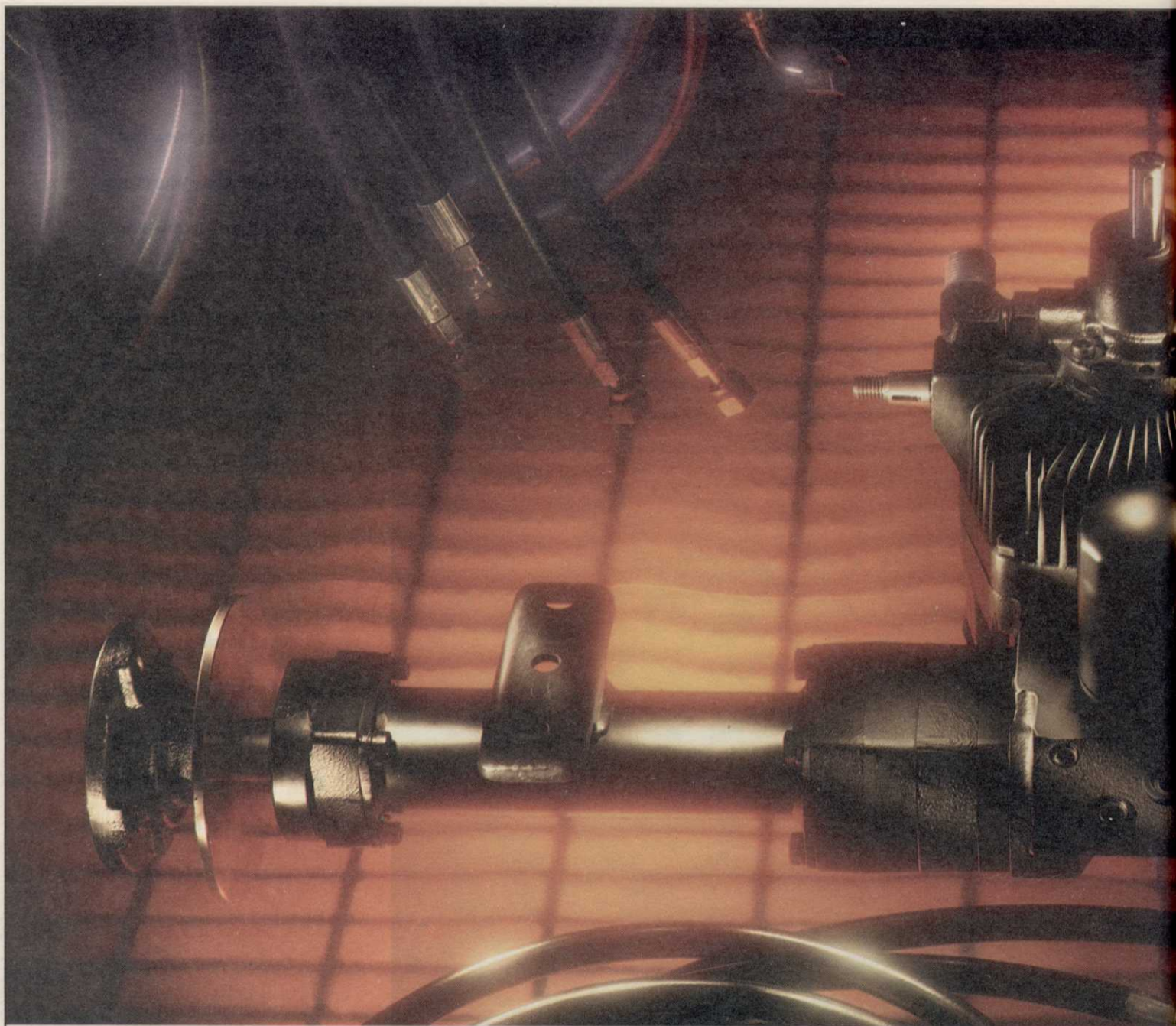
This will boost the retirement community to three golf courses and four recreation centers.

Del Webb is purchasing 582 acres from Howard Hughes Properties, developer of Summerlin in northwest Las Vegas, which includes Sun City.

Del Webb is not neglecting de-

velopment on both coasts. The Roseville (Calif.) City Council approved a Sun City community which would embrace a 27-hole course, 65-acre nature preserve, 3,500 homes, and a 55,000-square foot recreation complex.

The Beaufort, S.C., City Council approved Webb's zoning application and development agreement for an adult community near Hilton Head. The site would include 8,000 homes, three golf courses and other recreational amenities.



For those who've tired

It's simple. Fewer hydraulic lines mean fewer chances of leaks or failures. That's why the John Deere 2243 Professional Greens Mower is the logical choice for work on your most precious ground—your greens.

The 2243 uses a single hydrostatic transaxle instead of multiple wheel motors. It replaces traditional hydraulic motors, hoses and fittings with a single, sealed component.

In addition to reducing

hydraulic lines, the transaxle delivers quick machine response and built-in dynamic braking on slopes.

Add the advantage of the 2243's patented offset cutting units that reduce perimeter

Self-sufficient TGIF doubles membership

By MARK LESLIE

EAST LANSING, Mich. — Turfgrass Information Foundation (TGIF) membership has doubled and participation has grown 30 percent since the mandate for its self-sufficiency was handed down last winter by the U.S. Golf Association Green Section.

"I'm very, very optimistic. These are the right kinds of numbers. That's the kind of response and interest we needed from the industry," said Peter Cookingham, director of the Turfgrass Informa-

tion Center, based here at Michigan State University. The USGA had underwritten the costs since the start-up of TGIF, the world's largest turfgrass-related library.

Now, Cookingham said, "It's a matter of sustaining that momentum, and of delivering on some things we've wanted to but haven't done yet."

First among the new services, he said, will be a printed index — by author and subject — of all the information in TGIF. Cookingham hopes to publish it every six

months, beginning at mid-year.

A major improvement was the addition in December of Internet, which Cookingham called "the mother of all computer networks."

An international network which grew from origins within the U.S. Defense Department, Internet now has life of its own in defense, research and development, universities, national research laboratories and foreign governments, he said.

"The benefit will show quickly for universities and overseas us-

ers [of TGIF] — the universities because most of them have access to Internet through their campus networks; the international users for whom telephones tend to be problematic sometimes because of good and bad connections," Cookingham said.

"For the average superintendent, Internet provides another way to get in [access TGIF]. Long-distance carriers provide access to Internet. Most public network systems, like Progeny and America On-line, have indicated they intend to provide a gateway to Internet for those services."

Students at TGIF-member uni-

versities now can access TGIF without paying for log-on time or telephone connections.

Danny Quast, superintendent at Medinah (Ill.) Country Club and chairman of TGIF's external advisory council, said: "We will serve a lot of purposes over the years, but the most important could be making it available to turfgrass students."

Quast sees "endless possibilities" to the uses for TGIF.

"The flexibility is there," he said. "MCI thinks it's worth billions for the 'superhighway' and Internet is it right now. I'd like to see it expand so manufacturers could contribute information on equipment but not advertising."

"It can also be personalized for organizations like RISE [Responsible Industry for a Sound Environment] and GCSAA [Golf Course Superintendents Association of America]."

In fact, a proposal on TGIF went before GCSAA board in Dallas.

"Things are falling into place very nicely. I'm enthused about it," Quast said.

"I think anybody in society should see how important communications is to any business. This is in place and represents big investment by the USGA, and it's there for everybody. That's why I've worked so hard on it. I think it will grow and grow and be a useful service. We just have to iron out the lumps."

PGA plans 36-hole 'winter residence'

PORT ST. LUCIE, Fla. — The PGA of America reportedly plans to build a winter home for its 23,000 members here.

Tom Fazio of Jupiter will design two courses, a clubhouse with a PGA member area, research and development center, hotel and lodging facilities and 1,000 sites. An additional 18-hole course and a nine-hole par-3 layout are future aims.

The facility would be open to the public, but PGA members and residents of surrounding homes would have preferred tee times.

PGA National Golf Club or PGA of America headquarters in Palm Beach Gardens won't be affected.

Matthews returns to North Country

FAIRBANKS, Alaska — Jerry Matthews, Michigan's most prolific course designer, has been engaged to improve the nine holes at Fort Wainwright Army base here. Matthews is no stranger to Alaska. He spent an Army hitch here in 1957-58.

He will add a new nine complete with grass greens in a climate where such carpets are rare. The new nine will be built on a wooded parcel. When it opens, the old course will be closed and renovated. Completion target is June or July, 1996.

NO INTEREST FINANCING 'TIL APRIL 1
On all new John Deere Golf & Turf Equipment. Or finance today at rates as low as 6.75% APR. An impressive lease package is also available. Offer expires April 30, 1994.

of the same old lines

compaction and you begin to see how the John Deere 2243 separates itself from the rest. For the name of your nearest distributor, or free literature, call 1-800-544-2122.

Or write John Deere, Dept. 956, Moline, IL 61265.



NOTHING RUNS LIKE A DEERE®



Hawaiian island residents divided over resort plan

HANA, Hawaii — The first golf course proposed for Hana may not get off the ground.

Opponents have filed a civil lawsuit seeking to void earlier county approvals and to stop any work from being completed. The suit claims failure to adopt conditions to protect human and non-human resources in Hana, failure to allow public participation in the approval process and failure to require a proper environmental analysis.

Proponents claim the course is a necessary amenity that will attract visitors and ensure the financial health of Keola company, Hana's major employer.

The lawsuit claims that some council members received large campaign contributions from individuals connected with the project.

N.Y. airport may host public course

STEWART AIRPORT, N.Y. — Fairways soon may share space with runways at Stewart International Airport.

Stewart's land-use committee at a recent meeting seemed receptive to developing a public golf course on part of its 8,000 acres.

Mac Zeger of Newburgh presented the committee a petition containing 2,000 signatures favoring a course at Stewart. He added that a private backer is ready to put up \$4.5 million for the project.

Local golfers still are upset over the 1987 closing of the Newburgh Country Club near Stewart, which featured a 141-acre public course.

NEWS IN BRIEF

TWIN CITIES, Neb. — Expansion of Gering Golf Course to 18 holes is under research committee study. The city would need to purchase land owned by Harrison Nelson on the south side of Country Club Road. Two hundred persons have signed a petition requesting course expansion.

SULPHUR, La. — Clearing has been completed for the golf course complex at Park Site 11, and seed may be planted in July or August, according to architect Dave Roberts. The complex eventually will include a hotel/convention center. He said the actual opening of the course would be delayed until 1995.

EVANSVILLE, Ind. — The nine-hole Clearcrest Pines will become 18 holes in late fall of 1995. The site had been Clearcrest Country Club, but now will offer public golf. The course is owned by Gun Club Inc. Ron Pritchard is the architect.

College track delayed by wetland issues

LUDINGTON, Mich. — If environmental guidelines are met, a golf course proposed for West Shore Community College can be built here.

Representatives from Resource Management Group Inc. outlined three items for implementation. They include avoiding wetlands, streams and the South Branch of the Lincoln River during construction; that areas not essential to play be treated as wildlife habitat

and maintained in a natural or enhanced/managed site; and that best management practices be implemented in construction, maintenance and operation of the facility.

About 35 acres of the 185-acre site are regulated wetlands.

The course originally was proposed to the college last February as a "resort-style" 18-hole course on 180 acres of college-owned land.

Armco Steel sells Hills' Shaker Run

MIDDLETON, Ohio — Shaker Run golf course has been sold to a Cincinnati-based partnership for \$6 million.

Cincinnati developers David Brooks and Nick Bauer are the controlling partners. Other general partners are Pat Crooks and Bob Howard of San Francisco.

Armco Steel placed the 18-hole course, set on 538 acres in Turtlecreek Township in Warren County, on sale last year.

Shaker Run, designed by Arthur Hills and opened in 1979

for use by Armco employees, "just was not part of the core steel business," a company spokesman explained.

Long-range plans include building a new clubhouse and adding nine holes in 1995. Short-range plans include enclosing the dining areas in the clubhouse.

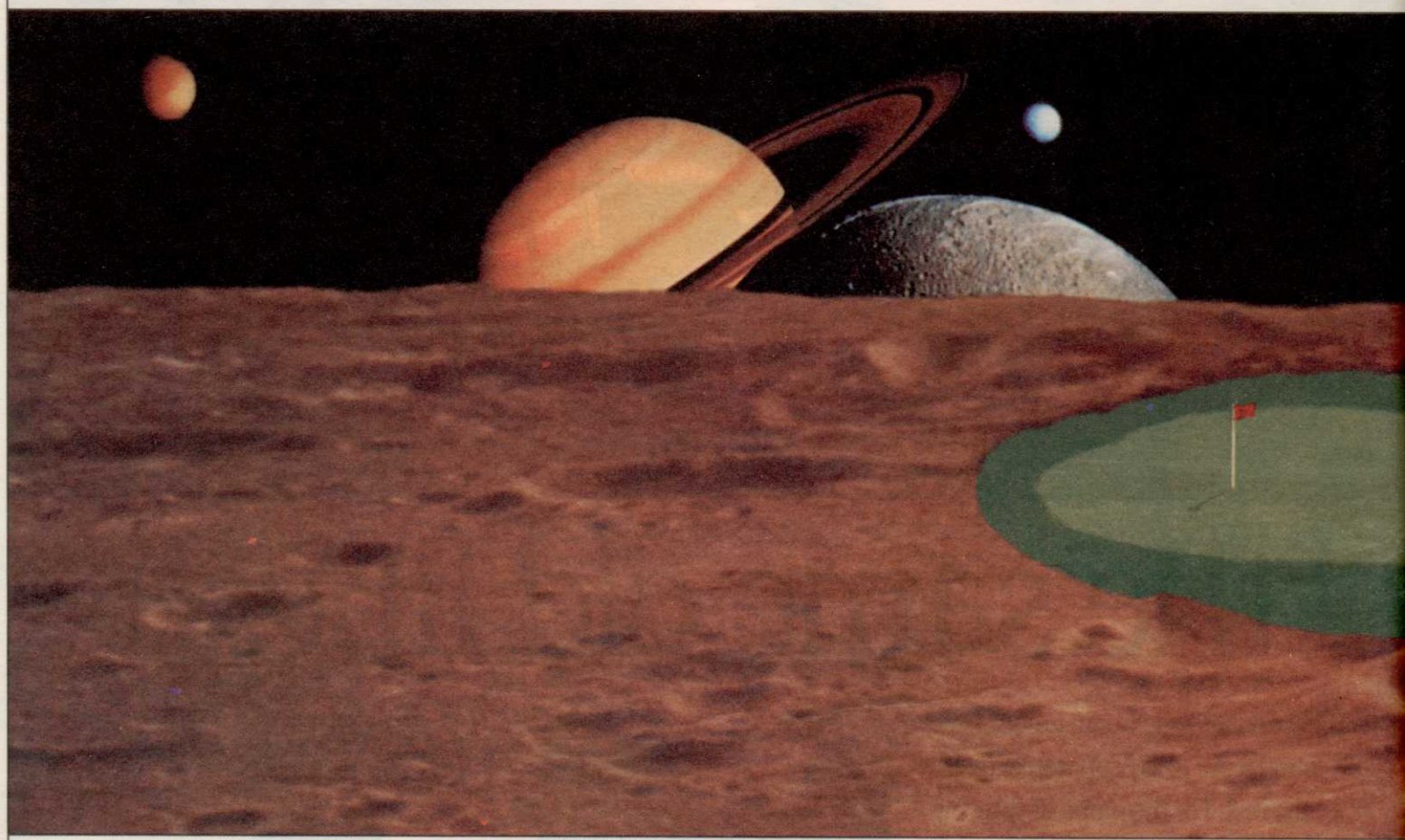
A 3,000-square foot pavilion for outings and awards ceremonies will be built near the 115-acre lake. The course will be re-manicured and the computerized two-pipe irrigation system expanded.

If you can imagine

Behind every remarkable golf course is a remarkable imagination. And at JacklinGolf, we don't think your design should be limited by anything — least of all your grass seed.

JacklinGolf was created exclusively to take your course farther than it's ever been before.

With advanced seed and the technical resources that help your turf establish faster, look better and play longer. From the first proprietary seeded bermudagrass and innovative zoysiagrasses to improved perennial ryegrasses. And breeding and research



© JacklinGolf • 5300 West Riverbend Avenue • Post Falls, Idaho 83854-9499 • Phone 800-760-4321, Fax 208-773-4846

Conn. city weighs course expansion

NEW BRITAIN, Conn. — Alderman Joe Willis envisions rolling hills, picnic tables, nature trails and water rides as the preferred route for future A.W. Stanley Park development.

The inside track, though, may be held by proponents of a driving range and another nine holes for Stanley Municipal Golf Course.

A.W. Stanley Park and the Stanley Golf Course are on land donated to the city in the 1920s by Arthur W. Stanley of the tool-making family.

In the late 1920s, New Britain built the golf course in the city's largest park, which covers 556 acres. A consistent money-maker, the course could use another nine holes to accommodate golfers.

The city Parks and Recreation Commission is weighing five plans proposing that driving ranges be built on the northwest corner of the park. While not taking sides, R. Peter Ledger, director of parks and recreation, thinks Willis' park plan is feasible and a reasonable alternative.

World Golf Village to break ground?

ST. AUGUSTINE, Fla. — Ending a two-year wait, construction is set for the first stage of a \$1.5 billion development in St. Johns County that will feature multiple courses and a golf hall of fame.

Work on a new Interstate 95 interchange will provide the springboard. Expanded plans for the hall, now expected to include most major golf organizations, have slowed the project.

Negotiations to bring a Hilton Hotel to the site have been prolonged. The northwest St. Johns County development slated to include 7,200 homes has been planned since the mid-1980s.

The hall, targeted to open in late 1995, is envisioned as part of a World Golf Village that will include the hotel and a golf course. Officials believe it will draw up to a million tourists annually.

Wisconsin project awaiting lease agreement okay

JANESVILLE, Wis. — A proposed country-club quality 18-hole golf course will receive close scrutiny and hopefully lease agreement approval by the Rock County Board early in March.

L.S.H., Inc. of Janesville plans to build the course on 177 acres of county-owned land south of the Rock County Airport.

If approved, building the \$3.83 million course would begin next year. Opening could be in the spring of 1996.

The project would embrace a 60-station practice range, practice green, 6,000-square foot clubhouse with dining facilities, bar, pro shop and administrative offices.

Martin Design Partnership of Geneva, Ill., designed the 6,600-yard layout.

Palmer to design daily-fee in Bloomington, Ill.?

BLOOMINGTON, Ill. — The city hopes to build a public golf course designed by Arnold Palmer at a cost of nearly \$6 million.

The City Council will vote in the spring on required property annexation. The 18-hole layout designated Fox Ridge Country Club is not expected to open until 1997.

The planned course site is near the Nestle Beich candy plant, owned by the Snyder Corp., a Bloomington land developer. The company has asked Bloomington to annex the property, which would be donated to the city.

Of the \$6 million cost, \$1.5 million would come from public funds.

Spring brings construction at New Jersey site

HILLSBOROUGH, N.J. — Royce Brook Golf Club, a 36-hole public layout in the township's northeast section, is expected to open by mid- or late-1995.

Construction is due to begin this spring on the 440-acre site near Millstone River Road.

The golf course will have on its property an 8,950-square foot clubhouse, pro shop and restaurant.

The project is being funded by Hillsborough Golf Associates under a limited partnership with Belmead Development Corp. of Roseland.

The fence enclosing the facility will have a gap in it because of wetlands on the property. Under state law, nothing can be built on wetlands.

it, we can seed it.

programs that continually push the boundaries

of turf science — for *every* part of your course.

To put your plans into orbit, call your

authorized JacklinGolf distributor or

1-800-760-4321. And get set to use your

imagination.

Free tools for your imagination.

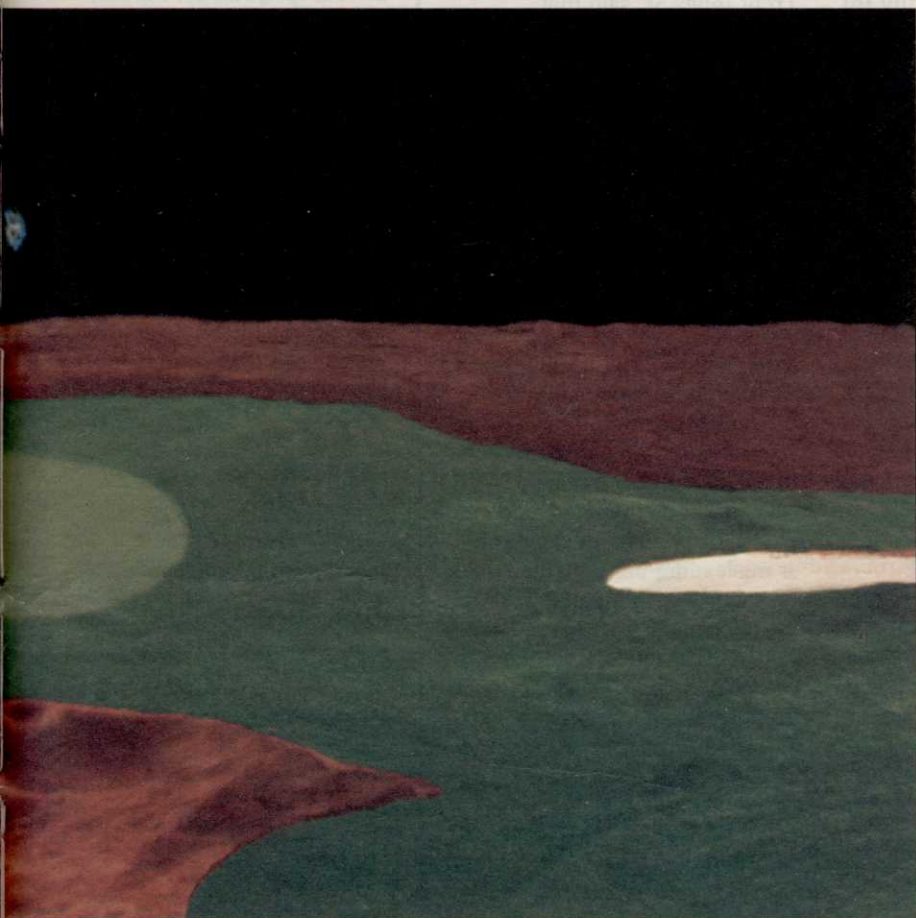
Call our toll-free number for a free

JacklinGolf Imagination Kit loaded with

comprehensive turfgrass planning and

specification tools. Use them to take your

course to a whole new level!



JACKLINGolf

Misplaced concern drives EPA regulatory policy

The ultimate fate of America's golfing public was relegated to secondary importance when Dr. Burton Kross presented results of his GCSAA-commissioned Mortality Study last month in Dallas.

Kross, an associate professor of epidemiology at the University of Iowa, reported that, historically, golf course superintendents have been more likely to contract certain types of cancer than the general public. And while he stressed there is no proven causal relationship between the cancers and the superintendents' exposure to pesticides, he stated rather

definitively that golfers — or course "patrons" — are in no way at risk.

This came as no surprise to industry members in the Dallas audience, but it also struck me as somewhat ironic because pesticide policy — as issued by the federal EPA and various state agencies — is almost completely driven by the perceived effects of chemical exposure on the public at large, not superintendents. In a culture where stories of licking golf balls seem to carry more popular weight than the



Hal Phillips,
editor

preponderance of scientific data, it was refreshing to hear Kross dispel an all-too-common myth — namely, that pesticide use poses a threat to the general welfare.

Whether it poses a threat to superintendents is not clear,

which is why the GCSAA, chemical manufacturers and the golf course industry all support further study.

Most everyone acknowledges that chemical handling practices were woefully insufficient during the 1940s, '50s and '60s, when subjects of the Mortality

Study — those GCSAA members who died between 1970 and 1992 — tended to their courses. Further, most everyone agrees that manufacturers have complied above and beyond the call of duty when it comes to applicator training, specific labeling and continual laboratory testing. The 10 years of research which any product must undergo before EPA approval, speaks for itself.

The new GCSAA leadership did the right thing by addressing the study pro-actively: Quickly releasing the story to news organizations, soliciting the input of other industry

Continued on page 13

Take note: Quotes worth remembering from Dallas '94

Attitudes and foundations. These are what the International Golf Course Conference and Show provides and supports each year. And so it was in 1994 — from the educational sessions on agronomy, to superintendent Peter Leuzinger's rendition on attitude, to U.S. Golf Association Green Section agronomist Bob Brame's analogy between the foundations of greenkeeping and faith.

Leuzinger's quote of an unknown author about attitude was one of a number of interesting notes and quotes gleaned at the conference. Here they are, starting with his:

"The longer I live the more I realize the impact of attitude on life. Attitude to me is more

important than facts. It is more important than the past. Than education. Than money. Than circumstances. Than failures. Than successes. Than what other people think, or say, or do. It is more important than appearance,

giftedness or skills. It will make or break a company, a church, a home. The remarkable thing is, we have a choice every day regarding the attitude we want to live that day. We cannot change our past. And we cannot change the fact that people will act in a certain way. We cannot change the inevitable. The only thing we can do is play on the one string we have, and that is



Mark Leslie,
managing editor

our attitude. I am convinced that life is 10 percent what happens to me and 90 percent how I react to it. And so it is with you. We are in charge of our attitudes."

Politics invades the links: Hearing a

long-winded congratulatory letter from President Clinton, Old Tom Morris Award-winner Byron Nelson said: "It goes on and on, doesn't it? If he keeps writing like that I might have to vote for him next time."

Factoids remedy, bring on the TV cameras: Ron Dodson, president of the Audubon Society of New York: "We can deal with factoids with Preparation F."

No copycats here: "I don't know how people can copy golf holes. It's impossible. We couldn't even copy our own," said Roger Rulewich, asked by Sunbelt to replicate a par-3 hole on all the Jones Trail courses in Alabama.

Hands-down: Best-looking couple in the business is Bob and Christine Faulks of Greensmix.

He just keeps going and going and.... In a surprise appearance at the American Society of Golf Course Architects session, 87-year-old Robert Trent Jones Sr. said that although a visit to a chiropractor three years ago resulted in a broken back that has slowed him down, it has not stopped

Continued on page 64

Letters

HURDZAN ANSWERS EPA CHIEF

Michael J. Hurdzan, who heads Hurdzan Golf Course Design, Inc., in Columbus, Ohio, sent *Golf Course News* this copy of his letter to EPA Administrator Carol N. Browner.

Dear Ms. Browner:

I just finished reading your guest editorial in *Golf Course News* (January 1994 issue) and either you or I are very badly informed.

You specifically indicated that golf courses use four to seven times more pesticides than farms. But how about compared to a home lawn, vegetable garden or even the White House Rose Gardens and grounds?

You also indicated the increased sensitivity of children who walk golf courses, and pesticide runoff that can severely threaten drinking water supplies. Is the basis of highlighting those issues to inform or inflame?

I consider myself an aggressive environmental advocate with a strong earth science background (Ph.D. in plant and soil sciences) who stays in tune with all golf course-related issues and incidents. Yet I have no knowl-

edge of any incidents you allude to, at least in the past five years. Therefore, I would appreciate it if a member of your staff could specifically cite proven examples such as you mention.

If your staff finds no such incident, then I think it would be appropriate for you to so state in another guest editorial. Frankly, the action plan of your letter reads like something from the mid-1980s, for golf courses and turf managers have been doing what you suggest for years.

We in the golf course industry pride ourselves on being the leaders, and not followers, in this current green revolution. I can provide your staff scores of recent research findings, including those from the EPA's Cape Cod study, that support my point and vindicate golf courses.

I would expect a person of your leadership position to be rather open-minded and deliberate about any position you enunciate as administrator of the EPA. I would further expect you to be more like the blind scales of justice, weighing proven evidence and data with the goal of implementing long-term protection of earth, rather

than simply distributing outdated, unsubstantiated advocacy rhetoric. For the sake of science and future generations who depend upon us, let us deal in fact and not scare propaganda.

I look forward to your answer, for if the communication folks of the turf industry are covering up severe or significant environmental degradation or incidents, they need to be taken to task.

As a passenger and parent on this spaceship, I want to know if I or my colleagues are making mistakes or are acting in an irresponsible manner. These issues are far too serious to generalize about or to cover up. Likewise, if we are doing a good job, we deserve some recognition and praise.

I am clearly concerned, not just about the perception of golf courses in the environmental continuum, but also the reality of our role. I know of a multitude of positive impacts, and I want to work on reducing or removing the negative ones, but we must be specific.

Please contact me if I can further assist you.

Michael J. Hurdzan, president
Hurdzan Design Group
Columbus, Ohio

BROWNER'S EPA FACTOIDS

To the editor:

The January issue of *Golf Course News* contained a puzzling juxtaposition of factoids, enviro-political trends and scientific research. Scientific research, of course, finishes third in that lineup.

Factoids, as the late Dixie Lee Ray said, are false, exaggerated or misleading beliefs which gain acceptance by frequent repetition.

Golfers must learn to recognize factoids. The Guest Commentary by EPA administrator Carol Browner is a good place to start. Each factoid is followed by a factual statement: the "whole truth" as science knows it.

1) EPA factoid: The use of pesticides in the United States is excessive and harmful. (Ms. Browner says we must accomplish a "sharp reversal of the pesticide-intensive policy of the past 50 years.")

FACT: In the past four decades, we have developed increasingly sophisticated programs of integrated pest management. Technologically-enhanced agriculture has virtually eliminated soil ero-

Continued on page 12

GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

Publisher
Charles E. von Brecht

Editorial Director
Brook Taliaferro

Editor
Hal Phillips

Managing Editor
Mark A. Leslie

Associate Editor
Peter Blais

Contributing Editors
Terry Buchen, CGCS
Vern Putney

Editorial Advisory Board
Raymond Davies, CGCS
Virginia Country Club
Kevin Downing, CGCS
Willoughby Golf Club
Tim Hiers, CGCS
Collier's Reserve
Dr. Michael Hurdzan
Hurdzan Design Group
Mary P. Knaggs, CGCS
Hazelton National GC
Roger Maxwell
Management Consultant
James McLoughlin
The McLoughlin Group
Kevin Ross, CGCS
Falmouth Country Club
Brent Wadsworth
Wadsworth Construction

Production Manager
Joline V. Gilman

Circulation Manager
Brenda Boothby

Editorial Office
Golf Course News
PO Box 997
38 Lafayette Street
Yarmouth, ME 04096
207-846-0600; Fax: 207-846-0657

Advertising Office
National Sales:
Charles E. von Brecht
227 Second Avenue North
St. Petersburg, FL 33701
813-898-7077; Fax: 813-825-0923

Western Sales:
Robert Sanner
Western Territory Manager
2141 Vermont
Lawrence, KS 66046
913-842-3969; Fax: 913-842-4304

Marketplace Sales:
Mary Anderson
813-898-7077; Fax: 813-825-0923

Golf Course Expo Sales
Michael Lafaso
207-846-0600; Fax: 207-846-0657

Subscription Information
Golf Course News
P.O. Box 3047
Langhorne, PA 19047
215-788-7112

United Publications, Inc.
Publishers of specialized business and consumer magazines.
Chairman
Theodore E. Gordon
President
J.G. Taliaferro, Jr.

NGF **CHARTER MEMBER**
NATIONAL GOLF FOUNDATION

BPA
INTERNATIONAL

Copyright © 1994 by United Publications, Inc. All rights reserved and reproduction, in whole or in part, without written permission from the publisher is expressly prohibited.

IOWA PRE-EMPTION UPDATE

The Iowa Legislature recently passed Senate File 94, barring cities and towns from enacting their own pesticide regulations. Steven Cook, head superintendent at The Wakonda Club in Des Moines, Iowa, attended the public hearings and filed the following report — Ed.

To the editor:

In 1991, the town of Casey, Wis., made the word "pre-emption" very important to the green industry. State pre-emption of local pesticide legislation is an issue that affects the golf course industry more than many of us realize. Certainly that is the case here, in Iowa.

On Jan. 19, after a very long battle, the Iowa House of Representatives voted by nearly a two-thirds margin to accept a bill, Senate File 94, that allows state government to pre-empt local governments from enacting legislation concerning the use of pesticides. Thus the name, pre-emption.

Defeat of this legislation would have meant that any local government, whether a city or county, could write its own pesticide regulations, thereby making compliance to numerous laws a very difficult problem. Opposition to Senate File 94 tried to use the home rule argument, along with hysterical testimony on the evils of poisons, to place control of pesticide regulation in the domain of local officials. Many forces were joined here in Des Moines and throughout the state to help this bill pass thorough the Legislature. The Iowa Alliance of Environmental Concerns, an organization composed of the golf course and lawn care industries, lobbied hard in favor of golf course superintendents.

What many zealots of the environmentalist camp do not realize is that regulation will actually reduce the risk of pesticide abuse. By enacting tough laws which govern the entire state, we will be more assured the pesticide training and application is carried out with authority and uniformity. As environmentalists, golf course superintendents realize the importance and validity of making everyone adhere to the proper regulations of pesticide use. Why would we take away the right of the state to pass tougher legislation?

If control is wrested from the state, it will allow local municipalities to set their own rules. One city may be tough, while another is more lenient, allowing many lawn care companies off the hook. Why make one city safer than another? Why not make the entire state safe?

By letting the state administer pesticide laws, we ensure consistency in the training of applicators. Local governments currently do not have the trained staff or funds to judge the compliance of any new ordinance. Who would pay for this staffing? (A particularly good question at a time when local officials are complaining about federal

mandates they cannot afford to enact.)

Local regulation would not reduce the use of pesticides. That must come from individual companies and employers. Can you imagine the difficulty of compliance if every city in the state of Iowa had its own separate legislation? I suggest state governments make pesticide certification exams more difficult and raise the requirements for continuing education credit. They currently have every right to do just that. Meaningless signs — posted like billboards around a golf course — will do absolutely nothing towards pesticide use reduction. Posted signs do not guarantee the applicator will be wearing a respirator. He/she is the individual who is at direct risk. It follows, then, that he/she must take some responsibility in safety and compliance.

All of our problems have not been solved with the passage of Senate File 94 in Iowa. However, legislators know that golf courses are viable businesses in the state and that pesticides are applied by trained personnel. The issue of state pre-emption will now be decided in each state. It will be important that the golf industry makes itself heard.

Steven M. Cook, CGCS
Director of Association Affairs
Iowa Golf Course
Superintendents Association

DOAK BACKS ASGCA PRESIDENT

To the editor:

I would like to note my agreement with the letter from architect Jerry Matthews printed in your January 1994 issue, with regard to your voting on the "Best Architect of the Year."

I have the greatest respect for Tom Fazio, who was again named Architect of the Year, but I think that it does every architect, including Mr. Fazio, a disservice for you to have such an award.

Essentially, your voting is little more than a popularity contest in what is, unfortunately, increasingly a personality-driven business. Any equitable judging of golf course architecture must be made on a course-by-course basis, though even those judgments are biased by the designer's reputation and project budget. To vote on designers themselves tilts the playing field severely in favor of the handful who are household names and whose work is widespread enough to be known to all your readers.

Few of us would pretend to challenge the output of Tom Fazio's office over the past several years. We only wish we'd had half the opportunities with spectacular sites and generous budgets that he's had.

But if you'd change your award to look at individual designs instead of business reputation, I think you'd have a much more competitive and meaningful award, instead of simply reinforcing the status quo.

Tom Doak, president
Renaissance Golf Design, Inc.

'Tis the season for tax tips

By LAURENCE A. HIRSH

As local governments become hard pressed for operating revenues, they increasingly look to real estate taxes as revenue sources. Golf courses seem to be an easy target. Why not? Only 12 percent of the population plays golf and most are perceived by non-golfers as "rich people in bright clothes chasing a little white ball." Certainly a politically acceptable target.

The golf course industry can fight back.

Since real estate taxes are *ad valorem* (as to the value), the primary issue is usually the appraised or assessed value of the property. Golf courses and country clubs present a complex and unique valuation problem. Few tax assessors — or real estate appraisers — are experienced in performing these valuations, and often the golf course is valued exclusively by reproduction cost analysis. Many golf courses, especially those associated with residential developments, cost

more to build than their economic worth basis and thus unfairly high assessments result. Additionally, the unfamiliar tax assessor may attempt to support his reasoning with recent golf property sales using a price-per-hole analysis comparing incomparable properties having the same number of

holes and resulting in an inaccurate analysis.

Neither of these methods considers the property's income potential or the portion of that income that may be produced by personal property or business efforts and is non-taxable as real estate.

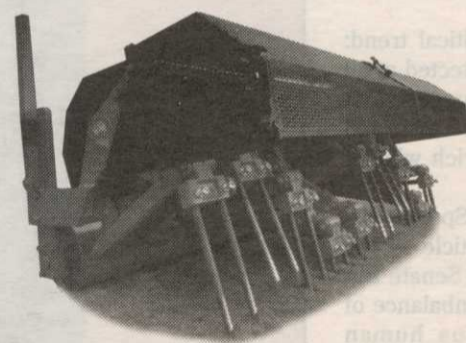
In recent years, many stronger valuation techniques for golf property valuation have been developed as the real estate appraisal profession has devoted more attention to golf courses. The Appraisal Institute has published a new book on the topic, numerous articles have appeared in appraisal publications on golf property valuation and there is a professional group of the most active and experienced golf course appraisers and analysts called the Society of Golf Appraisers, all of which has happened in the past three years. Appropriate

Continued on page 12



Laurence Hirsh

Laurence A. Hirsh, MAI, is president of Golf Property Analysts in Harrisburg, Pa. He is also a member of the Society of Golf Appraisers.



It's ugly. It's slow. It's expensive.
But it works like gangbusters.

And that's what really counts where your turf is concerned. Sure, there are other ways to go but nothing else is as proven and dependable as Verti-Drain®. It's been tested and trusted by the best in the business for over a decade to generate deep root growth with all sorts of soils and grasses. Simply put, it works. It's the only way to go. It can work for you.



Emrex, Inc., Box 1349, Kingston, PA 18704 (717) 288-9360

AMERICA'S PREMIUM
HEAT-TREATED
TOP-DRESSINGS

PARTAC®
GOLF COURSE
TOP-DRESSING

PLUS CONSTRUCTION,
CART PATH, SAND TRAP, AND
DIVOT REPAIR MIXES

TYPAR®
GEOTEXTILES & TURF BLANKETS

Terra-Groom®
USA MADE, NOT IMPORTED

SOIL CONDITIONER
IMPROVES AERATION AND DRAINAGE
BETTER THAN SAND
YET RETAINS NUTRIENTS & MOISTURE!

PARTAC®
GREEN SAND
FOR DIVOT REPAIRS

The Ultimate Solution to Unsightly
Divots at Telegolf Tournaments
and other Sports Events!

AVAILABLE NATIONWIDE
800-247-2326
IN N.J. 908-637-4191
PARTAC PEAT CORPORATION
KELSEY PARK, GREAT MEADOWS, N.J. 07838
ORLANDO (FL) MEMPHIS (TN) RENO (NV)

HIGHLIGHT GOLF HOLES,
IMPROVE VISIBILITY,
and SPEED UP PLAY with

**U.S. GOLF HOLE
TARGETS™**

GREENGRAPHICS® GREEN
PERMANENT TURF COLORANT
SAND TRAP PUMPS
RAKES, PLUG PUSHERS, SQUEEGEES
AND MANY MORE
GOLF SPECIALTY PRODUCTS

Hirsh comment

Continued from page 11

consideration now is given to value created for property surrounding golf courses resulting from costs incurred in building the golf course but not received by the golf course. Better income models and units of comparison have been developed as the real estate appraisal profession has learned how to work mutually with the golf industry to better understand golf properties.

Of the three commonly recognized approaches to value, by far the income approach yields a value conclusion most reflective of market behavior

because most golf properties are purchased as income-producing investments. This should be given utmost attention. Are rates, fees and round counts accurate? Are operating expenses consistent with the market? Is the rate of return consistent with appropriate economic factors? These, along with other questions, must be adequately answered to develop a value for the property. While the sales comparison and cost approaches can also provide accurate value indications, the income approach usually reflects market behavior most accurately.

Assuming that a value conclusion has been developed,

we realize that this includes income from and value attributed to items such as food and beverage sales, pro shop revenues, golf carts and other personal property and business items not directly attributable to the land and improvements (real estate). These items cannot be assessed as real estate and must be extracted from the overall value to produce a value conclusion for the real estate.

Real estate taxes often can amount to an expense in excess of \$100,000 for golf properties and the author has seen assessments of more than double the property value. When capitalized, this potential

tax savings can result in a substantial increase to your golf course's bottom line as well as an increase in the value realized from the property upon any future sale.

Pursuing a fair assessment will offer a number of challenges: First, as a golf course (or especially a private club) you will be an easy target. This means that you should have as much information supporting your appeal as possible and that your consultants be experienced experts in golf property valuation and tax assessment consulting and litigation.

Secondly, you may be in a state which has assessment laws and procedures which

might preclude the valuation from being done in the most accurate and technically correct manner.

Third, any estimate of personal property and business value is subject to close scrutiny because there are no techniques for valuing them which have been universally accepted or applied.

On the other hand, there are few experts in golf property valuation and often a property assessor who wishes to avoid future confrontations will be more receptive to a well prepared case in order to more effectively value other golf properties in his or her jurisdiction in the future.

EPA factoid letter

Continued from page 10

sion, created food surpluses unprecedented in history, and has reduced the amount of land necessary to feed a growing population, thereby increasing land available for forestation.

2) EPA factoid: Golf courses are large users of pesticides.

(Ms. Browner says: "Today's golf courses use a large quantity of pesticides. In fact, golf courses use four to seven times more pesticides per treated-acre than farms.")

FACT: Golf courses are not large users of pesticides in absolute terms. How could they be? They comprise less than 1 percent of a national total of 450 acres of farmlands and golf courses. The per treated-acre use of pesticides comparison is preposterous and insulting to anyone with a knowledge of how statistics are derived — at least the USGA gives a method for computing your index!

3) EPA enviro-political trend: Wildlife must be protected at all costs. (Ms. Browner suggests that imaginative course operators and owners "can create rich wildlife habitats.")

The "Endangered Species Expansion Forecast" article by Joe Dysart suggests that Senate Bill 191 will add to the imbalance of animal rights versus human rights.)

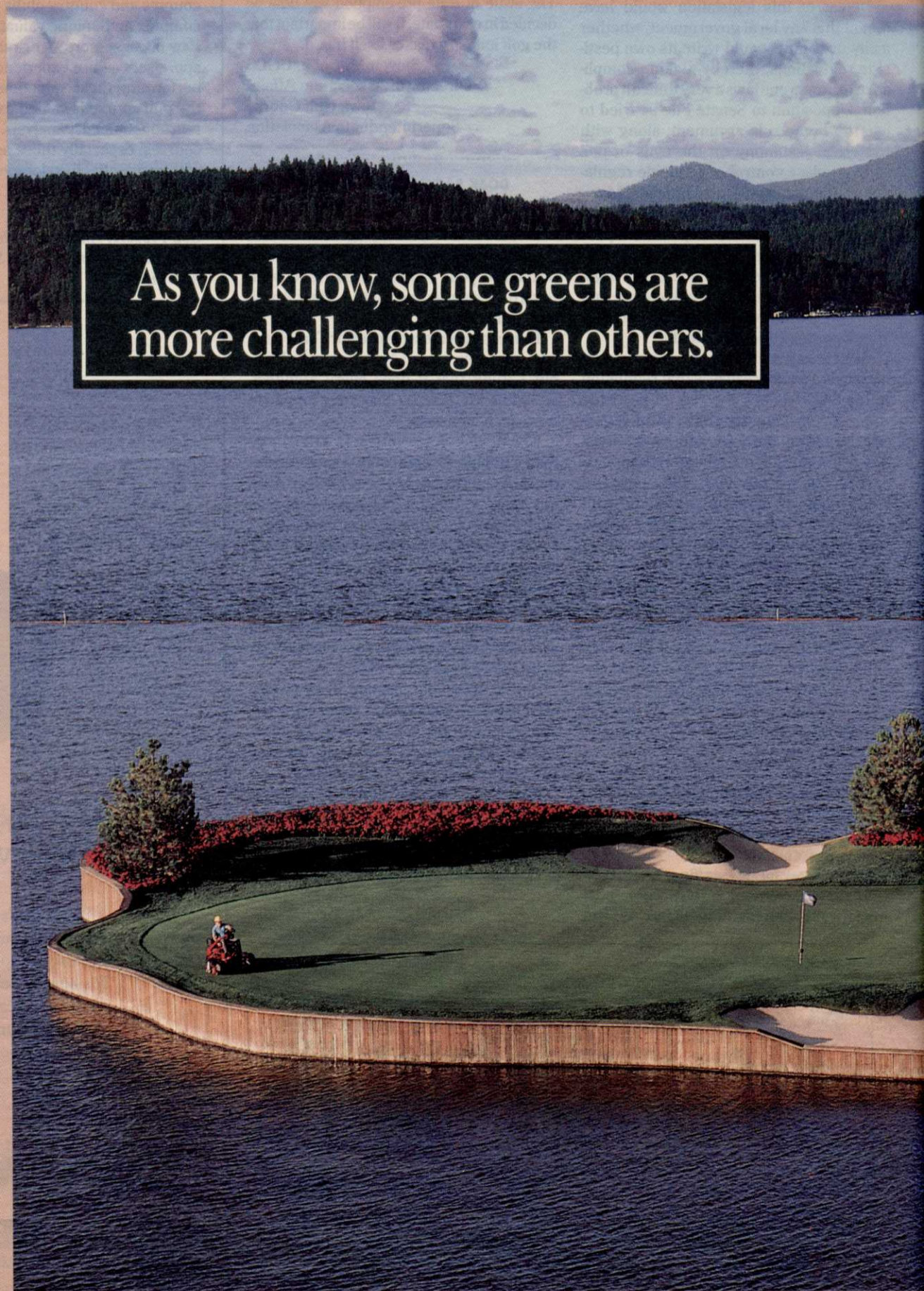
RESPONSE: "It is demeaning beyond belief to consider mankind simply another species of animal, no better and no worse than the wild beasts." (Dixie Lee Ray.

4) Scientific research: "Michigan State research shows insignificant amounts of fertilizer reach ground water."

COMMENT: Interestingly enough, the choice of "Off the Record" had some special meaning in this instance. Science finishes third, and, of course, it is not even "on the record."

Our enviro-vice president has predicted "an environmental holocaust without precedent." Perhaps our enviro-vice president and our EPA Administrator should take better care of our "avid golfer" president by warning him to stay away from the golf course?

David L. Collins, member
Royal Town Planning Institute



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

© 1994 The Toro Company. The Toro Company, 8111 Lyndale Avenue South, Minneapolis, Minnesota 55420. "Toro", "Greensmaster" and "Turf Guardian" are registered trademarks of The Toro Company.

What follows is a transcript of Paul Harvey's radio program. According to Harvey's office, this particular portion aired at 12:03, CST, on Feb. 8, 1994 — one day after release of the GCSAA-commissioned mortality study. Mr. Harvey's was contacted for comment, but did not respond.

Two years ago, you and I talked about the pesticides poisoning so many birds, that our golf courses face a silent spring. I received some indignant response from greens keepers and their association, and from pesticides manufacturers. They were adamant in their insistence that the stuff they were spraying on fairways and greens was not toxic. It was, and it still is.

Today the Golf Course Superintendent's Association of America is holding its annual meeting in Dallas, and a study commissioned by that organization of superintendents is reporting that not only

are golf course pesticides killing the birds, but they're killing golf course superintendents also. Golf course superintendents have a higher incidence of cancer.

The association has to know that this is going to open the door to lawsuits by golf course workers against their employers for exposing themselves to cancer causing chemicals. A statistical mortality study found among golf course superintendents more lung cancer, more brain cancer, more cancers of the large intestine and the prostate, especially however, lung cancer.

Dr. Burton Cross [sic], University of Iowa, one of the researchers on this project, recommends further studies and recommends meanwhile that golf course workers minimize however possible their exposure to pesticides. There's a moral here which demands to be underscored. We and the beautiful wild things live in harmony together, or we perish together.

Phillips comment

Continued from page 13

associations and, indeed, commissioning the research in the first place. This won't stop various media outlets from twisting its results to suit their own purposes. Be prepared for all sorts of "revelations."

Kross' study did reveal much, but it also revealed built-in checks and balances. As it has always been, superintendents have the greatest stake in the safety of chemical products and sound application procedures. The current generation of superintendents has always recognized this fact. Here's hoping this is one of the messages that rings loud and clear in future months, as the media seizes on the Mortality Study and attempts to interpret its results.

...

The one-man media outlet undisputed king of homespun bombast, old friend Paul Harvey, has already seized another opportunity to trash golf course superintendents. His Feb. 8 report on the Mortality Study appears on this page, at left. You're not going to like it, but *Golf Course News* believes that dissenting views are most dangerous when they lack an audience. How else can there be an appropriate response?

A quick recap of Harvey's stated views on the subject of golf course pesticide use reveals the adaptability of his unique value system.

Last April (one year ago, not two years, Paul), after coming across an Associated Press report from a North Carolina environmental forum, he said golf course superintendents were killing birds on their courses. Audubon Society officials and organizers of the North Carolina conference later refuted him in the pages of *Golf Course News*, but why ruin a good story with facts?

A few months later, he noted diminishing job opportunities in the agricultural industry and encouraged turf students to explore careers as golf course superintendents. Hmmm... Why would Mr. Harvey encourage our young men and women to enter a profession that would appear to specialize in killing birds?

His latest parry draws the definitive connection between pesticide exposure and cancer — contrary to the insistence of Dr. Kross, who authored the study — then speculates that superintendents will start suing golf course owners over the matter.

And for the record, it's Dr. Burton Kross, with a "K". I suppose it doesn't matter when you're on radio.

If this guy weren't so widely syndicated, he'd be hilarious.

They come in all sizes, shapes and locations. But every green challenges you to maintain a consistently superb quality of cut.



You gladly accept that challenge. And Toro offers complete families of riding and walk greens mowers to help you succeed.

Like our new Greensmaster® 3100. With fully floating reels and new 3 wheel drive. The softest footprint of all. A quieter engine. And Turf Guardian® leak detector.

No wonder more riding greens mowers bear the name Toro than any other. Because



Greensmaster® 1000 is a proven walk mower easy to operate and uniquely weighted for greater turf penetration.

Greensmaster® 500 features a free floating cutting unit to surmount undulations.

ours are products of Toro's partnership with golf course superintendents for more than 75 years. To design exactly what you need to create beauty and playability of tournament calibre.

We like challenges, too.

TORO

Helping You Put Quality Into Play.™

For more details, contact your Toro Distributor.
1-800-803-8676, ext. 152

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

NOW KILL ALGAE. WITHOUT KILLING YOUR BUDGET.



INTRODUCING ALGAEN-X® ALGAECIDE. It can give you algae control far superior to what you're getting now. And do it for a fraction of the cost of the chemical fungicides you've had to use, up to now. Unlike those chemical fungicides, Algaen-X was developed specifically to control algae. And does it ever!

Algaen-X is fast-acting, knocking down algae on contact. It's so powerful, you can control algae with very low application rates—just 1½ ounces per 1,000 square feet.

And all it costs to treat 1,000 square feet with Algaen-X is about 60¢. The cost-in-use of comparative chemical fungicides can be \$2.00 or more per 1,000 square feet!

You can get Algaen-X now in 2 x 2.5 gallon cases. Call your Scotts distributor today. Or call us toll-free at 1-800-492-8255.

New Algaen-X. It kills algae. Without killing your budget.



Note: Algaen-X registration in California is pending. ©1994 The Scotts Company, Marysville, Ohio 43041.

CIRCLE #110

BRIEFS



WOOD REIGNS IN SOUTH TEXAS

Michael Wood of South Shore Harbour CC in League City has been elected president of South Texas GCSA. Vice president is Don Cole of Greatwood Golf Club in Sugarland, and secretary/treasurer is Mike Burris of Bay Oaks CC in Clear Lake. Newly elected directors are Randy Broyles of Westwood CC in Houston, Mike Link of The Woodlands in Conroe, Ric Kehres of River Oaks CC in Houston and affiliate representative Bill Wade, representing Goldwaithes' of Texas in Houston.

MULLEN IOWA'S PRESIDENT

DES MOINES, IOWA — Ron Mullen, superintendent at Crow Valley Country Club in Bettendorf, is the new president of the Iowa GCSA. He was elected at the 60th annual Iowa Turfgrass Conference, at which Larry Hill of Indianola CC was named Superintendent of the Year. Dan Smith of Carroll Municipal GC and former IGCSA Executive Secretary Sherry Tegtmeier were presented Distinguished Service Awards, while Dennis Jones of Waverly GC was named top assistant superintendent.

LAKE PROTECTION IN KANSAS

The Kansas Department of Health and Environment's Office of Science and Support has produced two brochures concerning lake protection in Kansas. Available to the public, the brochures address the needs of people interested in water resources, lake association members and local entities that are near lakes. They are available from Cathy Kinder at 913-296-5565.

YEAR OF THE ELM

HARRISVILLE, N.H. — The Elm Research Institute has declared 1994 The Year of the American Liberty Elm and is promoting Johnny Elmseed, Arbor Day, Earth Day, Adopt-a-Street and municipal membership programs. The ERI hopes to have 1 million American Liberty elms planted by the year 2000. Superintendents interested in obtaining this disease-resistant elm may contact the ERI in Harrisville; telephone 603-827-3048.

BAZAN EARNS SCHOLARSHIP

COLUMBUS, Ohio — Scott Thomas Bazan, a student at The Ohio State University here, has been awarded Best Sand Corp.'s annual turfgrass management scholarship, which covers a year's tuition and book costs. Bazan, who hails from Medina, Ohio, has worked on the crew at Fairlawn Country Club in Akron and intends to pursue a career as a golf course superintendent. He was honored at the Ohio Turfgrass Foundation luncheon.



Scott Thomas Bazan

First and Foremost

Collier's breaks new ground with Audubon

By MARK LESLIE

NORTH NAPLES, Fla. — Collier's Reserve Country Club has become the first Audubon Signature Sanctuary in the country, setting the pace for this offshoot of the New York Audubon Wildlife Sanctuary Program.

To qualify for the Signature Sanctuary designation, a development must get the Audubon involved before construction. Developers sign a contract, agreeing to adopt environmental guidelines for construction and to adhere to certain standards afterward, such as minimums for water and electricity use, garbage, and impact on the site's ecology.

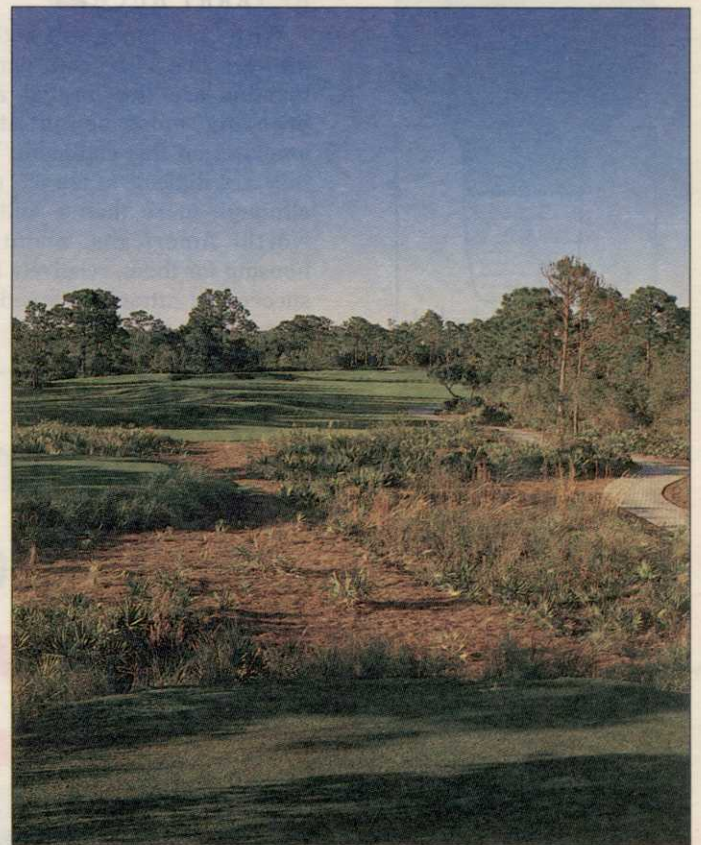
While another seven projects are under construction under the Signature Sanctuary program, Collier's superintendent Tim Hiers said: "It's a little scary being first. Everybody will see what we've done, so they have a launching pad. And, because we're first, we're going to be watched closely by superintendents, developers, Ron [Dodson, president of New York Audubon], and other environmentalists who will be looking for holes in the program."

Saying that six of the 50 to 60 developers that have inquired about the program have joined, Dodson expects that "getting one or two open will increase the amount of participation."

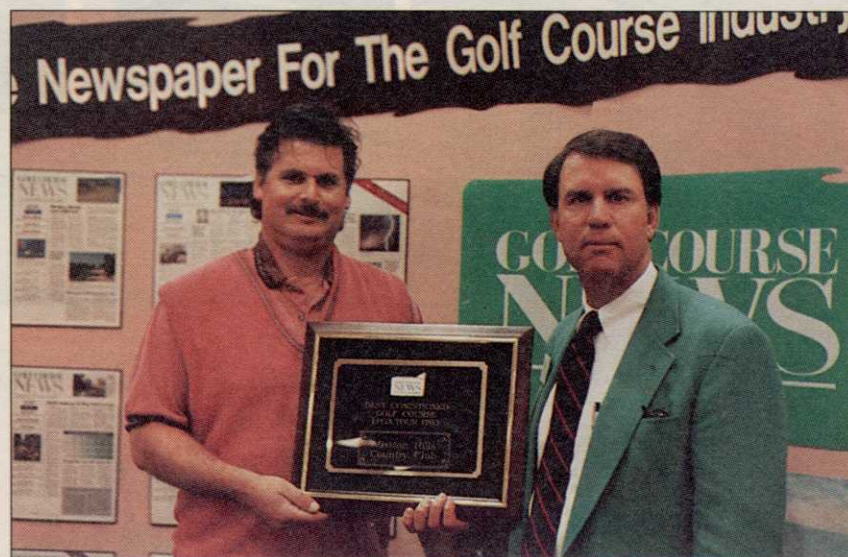
In various stages of development under the Signature Sanctuary program are Summerfield in Stuart, Fla.; Greens-of-Potnets in Delaware; Boulder Ridge in San Jose, Calif.; Ocean Trails in Los Angeles; Pine Ridge in Baltimore; Granite Bay near Sacramento, Calif.; and Grand Island Golf Club near Albany, Ga.

"People are concerned we are going to dictate architecture or

Continued on page 19



The Arthur Hills-designed Collier's Reserve Country Club set the pace for the New York Audubon's Signature Sanctuary program.



ON TOP OF THE JOB

Golf Course News publisher Charles von Brecht, right, presents Mission Hills Country Club Director of Maintenance David Johnson the award for Best Maintained Course on the LPGA Tour. Tour players overwhelmingly chose Mission Hills for the honor in balloting conducted by GCN.

TGIF proves it can make it on its own

By MARK LESLIE

EAST LANSING, Mich. — Turfgrass Information Foundation (TGIF) membership has doubled and participation has grown 30 percent since the mandate for its self-sufficiency was handed down last winter by the U.S. Golf Association Green Section.

"I'm very, very optimistic. These are the right kinds of numbers. That's the kind of response and interest we needed from the industry," said Peter Cookingham, director of the Turfgrass Information Center, based here at Michigan State University. The USGA had underwritten the costs since the start-up of TGIF, the world's largest turfgrass-related library.

Now, Cookingham said, "It's a matter of sustaining that momentum, and of delivering

Continued on page 17

Gold Rush of golf: Getting the good students

By MARK LESLIE

There's a gold rush going on in the golf industry — and the gold is good turfgrass students to intern at courses. Living conditions, pay, and even job duties are being upgraded nationwide as superintendents position their golf courses to attract the best students available.

Superintendents anxious to get turf-wise employees are eyeing improved housing, in particular.

"It's [new housing] happening, and more and more people are thinking about it," said Bob Brame, agronomist with the U.S. Golf Association (USGA) Green Section's Mid-Atlantic Section. "If you're looking at getting students from any distance, you almost have to have housing."

"To get good employees, especially

college students, on a golf course is pretty tough nowadays," said Dr. Michael Kenna, director of research for the Green Section. "Turf students are required to do an internship. But they try to find a job where they won't go broke paying for housing and be left with no money to pay next fall's college bills."

Of the facilities that offer housing to employees, Greenwich (Conn.) Country Club boasts the Mother of All Dormitories — a new two-story structure able to host 45 at one time.

While one in 10 clubs in his Ritzy Fairfield County has some facilities for staff, Greenwich superintendent Greg said: "We've taken it to a different level."

The \$1.1 million building, completed in October 1992, "absolutely has helped

attract people. We use it as a selling tool," he said.

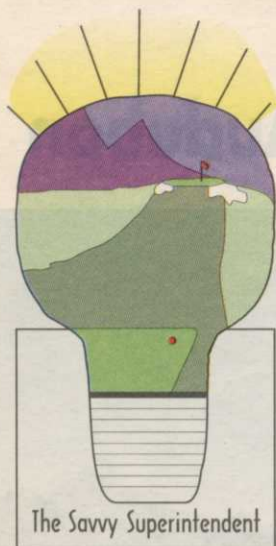
Wojick's houses three interns in his building, which consists of suites that have two rooms and a full bath, and another set of dorm-type rooms with community baths. Others on his crew live elsewhere on the property.

While Greenwich Country Club might have the ultimate facility, others have taken the housing plunge, too, and seriously.

His apartment complex "simplifies the whole process," said Bruce Cadenelli, superintendent at Caves Valley Golf Course in Finksburg, Md.

Cadenelli typically sends letters to a half dozen turfgrass programs from Nov. 15-Dec. 15, and "by Christmas-time I'm

Continued on page 21



Purple martins majesty

By TERRY BUCHEN

With a mosquito-eating prowess that is legend, purple martins are the largest and probably most sought-after swallows on this continent. Yet they are difficult to attract, and although more than a million North Americans maintain housing for them, relatively few succeed in attracting breeding pairs.

While purple martins are not the mosquito-eating machines of lore, they are almost entirely fed by insects. They love larger flying bugs, such as dragon flies, mayflies and cicadas. For this reason, they are ideal inhabitants for golf courses.

Attract a mating pair of purple martins, and it will return year after year, annually laying four to six pure white eggs, which are

incubated for 14 to 16 days.

The 10 most common mistakes to avoid are:

1) Martin houses installed too close to tall trees or in yards that are too enclosed. Air space at bird house height should be void of trees in at least a couple of directions for 40 to 60 feet.

2) The landlord allows other birds to claim the housing first. If the bird house was not used by

breeding martins last year, they will be easily repelled from the entire housing complex. On the other hand, they seldom are intimidated for reoccupying the site they used the preceding year.

3) The bird housing is placed too far from human housing. Martins prefer to nest within 100 feet of people, where they have learned they are safer from predators (snakes, raccoons, opossums, hawks, crows and owls). The bird house should be in the center of the most open spot available, 30 to 100 feet from human housing.

4) The house is not painted white. Another "believe it or not" item, but white reflects the sun's heat, highlights the dark entrance holes and best enhances mating.

5) The bird house is opened up too early. Purple martins migrate, returning to south Texas by late January and the Canadian provinces by mid-April. The oldest arrive first and return to where they bred the preceding year. Last year's fledglings show up over the following eight to 12 weeks in the North, 12 to 16 weeks in the South, beginning four or five weeks after the "scouts."

6) Failure to open the martin housing early enough. This sounds like a "Catch 22" situation considering the preceding point. At unestablished sites, the birds have to see either the open entrance holes or other martins there.

On the other hand, if breeding birds were there last year, superintendents can wait until they see martins standing on the house to open it up. Purple martins will return to the same breeding site year after year.

7) Vines or shrubs are allowed to grow up under the bird houses. Any such unestablished sites tend to be avoided by purple martins because they are more accessible to predators.

8) The houses not built to specifications. A compartment's floor dimensions must measure at least six inches by six inches. Seven-by-12 inches is far superior. The entrance hole should be about one inch above the floor and two to 2-1/4 inches in diameter. Most martins nest in the houses of gourds in the East and Midwest, but in tree or cactus cavities in the West.

9) The house is attached to, or too close to, wires. Martins know instinctively that squirrels can gain access to a bird house.

10) The house cannot be easily lowered and cleaned. Superintendents need to vertically lower their housing often to evict nest-site competitors and check on martin nestlings. Any such disturbances will not cause martins to leave their nest or site. Poorly maintained housing promotes parasites, as well as starlings and house sparrows that compete with martins for nest sites.

The all-new trap rake that does it all... at a price you can afford.

Sand Star Hydro



Introducing the Sand Star, the one and only sand trap rake with hydrostatic drive that combines the solid, reliable performance you need with a price you won't believe.

With all of its features – including a powerful and quiet Kohler Command 12.5 hp engine, three-phase raking and low-maintenance hydrostatic drive – you'd expect to pay plenty for the Sand Star. But you won't. With attachments like a sand cultivator and front-mounted plow,

the Sand Star does everything that its higher-priced competitors do.

Now you can have the best of both worlds: a top-of-the-line performer for a bottom-of-the-line price. The new Smithco Sand Star. It outshines the rest.

ALWAYS OUT FRONT

SMITHCO

WAYNE, PENNSYLVANIA 19087

Passing grade on TGIF report card

Continued from page 15

on some things we've wanted to but haven't done yet."

First among the new services, he said, will be a printed index — by author and subject — of all the information in TGIF. Cookingham hopes to publish it every six months, beginning at mid-year.

A major improvement was the addition in December of Internet, which Cookingham called "the mother of all computer networks."

An international network which

grew from origins within the U.S. Defense Department, Internet now has life of its own in defense, research and development, universities, national research laboratories and foreign governments.

"The benefit will show quickly for universities and overseas users [of TGIF] — the universities because most of them have access to Internet through their campus networks; the international users for whom telephones tend to be problematic sometimes because of

good and bad connections," Cookingham said.

"For the average superintendent, Internet provides another way to get in [access TGIF]. Long-distance carriers provide access to Internet. Most public network systems, like Progeny and America On-line, have indicated they intend to provide a gateway to Internet for those services."

Students at TGIF-member universities now can access TGIF without paying for log-on time or telephone connections.

Danny Quast, superintendent at Medinah (Ill.) Country Club and

chairman of TGIF's external advisory council, said: "We will serve a lot of purposes over the years, but the most important could be making it available to turfgrass students."

Quast sees "endless possibilities" to the uses for TGIF. "The flexibility is there," he said. "MCI thinks it's worth billions for the 'super-highway' and Internet is it right now. I'd like to see it expand so manufacturers could contribute information on equipment but not advertising."

"It can also be personalized for organizations like Responsible

Industry for a Sound Environment and Golf Course Superintendents Association of America."

In fact, a proposal on TGIF went before GCSAA board in Dallas.

"Things are falling into place very nicely. I'm enthused about it," Quast said.

"I think anybody in society should see how important communications is to any business. This is in place and represents big investment by the USGA, and it's there for everybody. That's why I've worked so hard on it. I think it will grow and grow and be a useful service. We just have to iron out the lumps."

Coffman book A must-read

By MARK LESLIE

CHICAGO — Dr. Michael S. Coffman, who educated a few with his first book, *Environmentalism!*, should reach a nationwide audience with *Saviors of the Earth?*

Released in January by Northfield Publishing of Chicago, *Saviors of the Earth?* strikes a powerful chord against extremist views that have been so often repeated that much of America believes them:

The apocalyptic cry has rallied environmentalist forces on such issues of acid rain, global warming, destruction of the ozone.

Coffman says that while the environmental movement calls for increased public support, million-dollar programs, and tighter government regulations, its real goals are not solutions but total restructuring of democracy to fall in line with the environmentalist doctrine. This doctrine is based on a biocentric world view where nature-is-god and human rights are made subservient to Mother Earth.

From the poorly informed Vice President Al Gore to ultra-environmentalists like Earth First! who proclaim humans are a cancer, Coffman strips off the veneer and lays the lies naked.

It's shocking what the government can accomplish when just a handful of these folks are put into high public office. Like Interior Secretary Bruce Babbitt and Assistant Secretary George Frampton, who are, respectively, former chairman of the League of Conservation Voters and past president of the Wilderness Society.

There is much, much more in this fascinating "must reading" for those in the golf industry.

Coffman, who taught forest ecology and forest community dynamics for 10 years at Michigan Technological University, is now president of Environmental Perspectives, Inc., in Bangor, Maine, and speaks his message around the country.

...

Saviors of the Earth?, \$11.99, 336 pages, paperback, available from Northfield Publishing, 215 W. Locust St., Chicago, Ill. 60610; telephone 800-678-8001.

GOLF COURSE NEWS



With Curalan, Long Lasting Control Is Par For The Course.

Finally, there's a turf treatment that works as hard as you do to keep your golf course looking its best. It's Curalan™ fungicide. With Curalan you can control eight tough turf diseases including brown patch, dollar spot, leaf spot, Fusarium patch and snow molds three to four times longer than other fungicides — up to 28 days.

And that's not all. Curalan's long lasting control is specifically designed to work on any kind of turf, at any stage of its growth, as a preventive or curative treatment.

So, whether you want to keep spots, patches or molds from invading your turf, or you need to clear up an existing problem with brown patch or dollar spot, a

treatment with Curalan can do it. This year, go for a new course record in disease control. Call 1-800-878-8060.

Simple Solutions To Complex Problems

BASF

Penn State landscape students' project a boon to grounds budget

By MARK LESLIE

UNIVERSITY PARK, Pa. — Superintendents at the country's 50-odd university golf courses might borrow a page from the Penn State Golf Course textbook. Through an innovative course, students are getting hands-on experience and the golf course is getting nine newly landscaped holes for the cost of the materials alone.

"That's a deal you can't beat," said Scott Rushe, assistant superintendent who coordinated all the materials while landscape Profs. Perry Morgan and Dan Stearns organized the students. "Our budget is limited. The students and instructors provided us with the finished product — they designed it all, built retaining walls, steps and a footbridge, and did the landscaping. And all it cost us was materials.

"Being union, if we had done the work we would have paid \$12, \$13 an hour to build a rock wall. It's hard to say how many hours the students put in — their class time, weekends, free time."

Free work like this need not be limited to universities, Rushe said. He cited a former employer, Country Club of Pittsburgh, where members donated money for flowers, shrubs and other items.

"At both private and public courses, the members can do that. Our ladies league here donated water coolers. This sort of thing can be done anywhere," he said.

The project proceeded so smoothly, there are hopes students will perform some improvements each year, said Rushe, given the assignment by superintendent Rick Bupp.

Jeff Mowrer, manager and head professional at Penn State, said the project primarily allows students "to learn to design and develop things in the classroom and then apply them in the field, which is what it's all about. Second, it's doing something to upgrade the image of the golf courses. We can show the work to people and say, 'Penn State students did that. Penn State professors did this.'"

Thirty-four students began the work last fall at 10 sites on the newly redesigned Blue Course. This semester, many of the same students are taking a planting design course in which they'll develop a landscape planting plan and also put the plants in the ground at the same 10 locations.

"They are designing and planning it. All we have to do is order plants, and look for donations to the university," Rushe said. "When we built the 11 new holes in 1992 we had a plain course — no landscaping or anything." When it opens this spring, it will be a beautified creation.

Among the current sites, much

of the work has been done around tee boxes. The bridge was built around a wetland area.

"We're taking the theory that's taught in the classroom and we're applying it in real life," said Morgan. "The good part about it is that we're able to learn from our experiences in a hands-on way. A lot of the design work is a sculptural thing — you can't just

do it strictly by the plans.

"Actually getting out there and picking out the stones for the walls and seeing how the available materials may affect the design are as important as the plans."

The project also boosted the students' cooperative and competitive spirits, which

Continued on next page



Students build a retaining wall at one of 10 sites on Penn State's newly redesigned Blue Course.



THE BEST FUNGICIDE ON THE COURSE

LONGEST CONTROL • BEST PERFORMANCE • LOWEST RATES

THE CONFIDENCE TO WIN AGAINST BROWN PATCH, DOLLAR SPOT, SUMMER PATCH AND 11 OTHER TURF DISEASES.

Collier's Reserve the pacesetter in N.Y. Audubon's Signature Program

Continued from page 15

other areas. We don't. We give guidelines," Dodson said. "We focus attention on areas like water conservation and vegetation selection. Then members of the program come back to us with their ideas that fit within those guidelines. We might move them forward a little bit. The ultimate goal was realized at Collier's Reserve. The program was not dictated by New York Audubon. It was generated by Collier's."

The New York Audubon may be the only organization in the world working with developers in sustainability programs, while other groups stop with printed material.

Compared to the Audubon Cooperative Sanctuary Program for Golf Courses, this program costs a lot more up front, but the payback is certain, Hiers said.

"It easily cost us \$200,000. But before people get intimidated by that, it will cost a



Tim Hiers

lot less to maintain," he said. "You use less water, electricity, fertilizer, pesticides. It's a more maintainable golf course. Payback for us will be about

'It easily cost us \$200,000. But before people get intimidated by that, it will cost a lot less to maintain.'

— Tim Hiers

four years."

Beyond the course itself, Signature program members are concerned with such things as installing fans so that air

conditioners can run lower; using air conditioners with a higher energy efficiency rating; installing water-saving faucets; and recycling aluminum, green glass, brown glass and paper.

"Instead of cutting down a tree and burying it, you leave it standing as a snag for eagles and ospreys, hawks and owls, woodpeckers and red-bellied woodpeckers," Hiers said. "Your whole focus is totally different. But the amazing part of this is, it actually makes the golf course look better and it's less expensive. It's better for the habitat and for the animals and birds."

Native vegetation replaced grass in certain areas of the Art Hills-designed track, he said.

And while it costs more to plant, after the first six months of keeping the weeds out, the natives use no water, electricity, fertilizer, pesticides, or labor.

"That is forever," Hiers said. "The most expensive thing to maintain on a golf course is what you have to care for by hand — with Flymos, weed eaters and other small specialty equipment. Those are also the most expensive pieces of equipment to maintain and the most dangerous to operate."

"What we've done is not necessarily all new. The top superintendents have been doing them for 20 years. But we've taken points A, B, C, D, E and F and put them all together in one package."

Hiers plans to set up an environmental educational center for visitors, nature trails for guided tours for schoolchildren, water conservation booklets for the club's 228 homeowners, and slide shows on the club's environment for its members.

Hiers, who came from ecology-friendly John's Island West in Vero Beach, said part of his motivation for joining the Signature program was to prove that golf courses are not environmental villains.

Dodson's office is located at 46 Rarick Road, Selkirk, N.Y. 12158; telephone 518-767-9051.

THE BEST PREVENTIVE CONTROL

Increase your confidence with just one application of Sentinel. It gives you systemic control of a broad spectrum of 14 damaging turf diseases. It's the most effective way ever to reduce your worry about disease control.

THE LONGEST CONTROL



- Ranges of expected length of control for Brown Patch and Dollar Spot under comparable conditions.
- Comparisons with other systemic fungicides based on eight years of research and EUP trials.

LONGER CONTROL THAN THE PRODUCT YOU'RE USING NOW

Only Sentinel delivers this level of extended disease protection. In 8 years and more than 400 tests, Sentinel has consistently delivered the longest control of any fungicide. '93 EUP results averaged 20 to 35% longer, with even more dramatic results in many trials.



Brown Patch

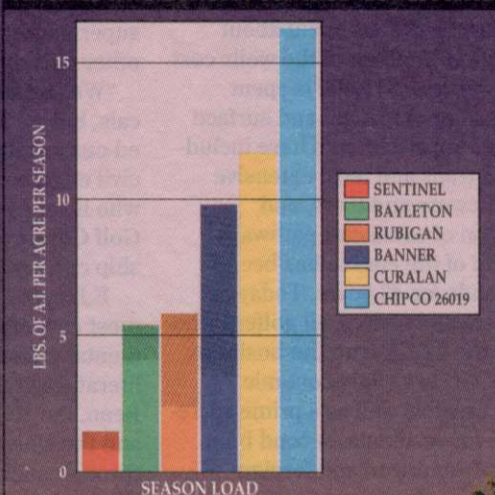
Dollar Spot



PROVEN FROM TEE TO GREEN

Sentinel has proven its *longest control* in trials in 25 states on 12 different varieties of turf. It's effective on tees, greens and on fairways, and its quick absorption means it won't wash away with rain or standard irrigation practices.

COMPARATIVE SEASON LOADS SENTINEL 40WG: LONGEST CONTROL - LOWEST RATE



BASED ON USE RATE AND RECOMMENDED SPRAY INTERVAL FOR DOLLAR SPOT & BROWN PATCH CONTROL FOR A 120-DAY SEASON

A LITTLE GOES A LONG WAY

Good news for you and for the environment. Sentinel is effective at the lowest rates of any available fungicide on the market. You apply less, store less, have a lower seasonal load and still get the longest length of control.

EASY TO USE

Sentinel comes in convenient 3.6 oz. water soluble packets. These easy-to-use packets mean no pouring or messy measuring. Just toss in the tank and you're ready to apply.

PLAY TO WIN WITH THE MOST CONFIDENCE

Sentinel gives you the best shots: longest control, broad spectrum and lowest rates on the course. To tee off against turf disease with new Sentinel 40WG, contact your distributor or call Sandoz at 1-800-435-TURF for more information.

S SANDOZ Use pesticides effectively. Read and follow label directions carefully. Sentinel 40WG fungicide is a registered trademark of Sandoz Ltd. ©1994 Sandoz Agro, Inc. Bayleton is a registered trademark of Miles, Inc. Rubigan is a registered trademark of Dow/Flanco. Banner is a registered trademark of Ciba. Curalan is a registered trademark of BASF Corporation. Chipco 26019 is a registered trademark of Rhone-Poulenc.

Penn State

Continued from previous page

improved the project. "Part of the interesting thing was to watch these teams work together and watch the leadership develop," says Stearns. "We saw lots of cooperation as well as lots of friendly competition. There was this overall determination within the class that the job had to be done right."

Help also originated from outside the campus. A stone mason volunteered time with the students, and Rushe said, "Various contractors in the area lent them hand tools — a great gesture."

SuperFocus



Brad Bonino at Tahoe City Golf Course.

Family affair earns accolades

By KATHIE HOXSIE

TAHOE CITY, Calif. — Ask the Bechdolt family how they transformed greens and fairways in poor condition into turf that some players say rivals Augusta National and St. Andrews and they'll tell you a \$200,000 tale of meeting environmental demands, relying on in-house expertise, and continuously fighting political hassles.

Their historic nine-hole Tahoe City Golf Course, elevation 6,200 feet, abuts this resort community's commercial core. Designed in 1929 as six holes and first managed by Scotland's May Dunn (the Dunns of Musselburgh), TCGC sits just above heavily regulated bi-state Lake Tahoe and is only 300 yards from the Truckee River, the lake's only outlet and water source for thousands of downstream users.

Compliance with California's water quality regulations is par for the course for all of California's five Tahoe golf courses. In 1989, TCGC was required, within three years, to stabilize three stream zones, construct three groundwater wells and two surface wells, install

grease traps and infiltration basins, and devise and monitor a chemical use plan.

Overall, the Bechdolt family spent about \$132,000 to comply. Each of the wells cost \$7,000. Upwards of \$12,000 is spent yearly for testing of ground and surface water. Other improvements have included new sand traps and tees, extensive planting of flowers and trees, and modernization of some cart pathways.

Ownership of the course has been in Bechdolt hands for 42 years. Today six adult brothers and sisters, all golfers who grew up on the TCGC, run the business. To them, TCGC is a vital economic community asset as well as a prime recreation option for residents, second homeowners, and American and foreign tourists.

Because the owners are spread geographically from Southern California to Washington, the year-old corporation meets twice yearly in Tahoe City and uses teleconferences to conduct routine business. A majority vote rules.

"We have our feuds," admitted nephew and manager Bobby Bonino, 31, a University of San Francisco graduate in hospita-

lity management who also has an associate degree in business administration.

"There are problems sometimes. They amount to what I know is right versus what they (the Bechdolt owners) think is right."

More than 30,000 rounds of golf are played here in the five to six months that the links aren't snow covered. A snowmobile rental service leases the course during the winter. Between May and September, TCGC hosts six tournaments, including Cal Bechdolt's Cool Caddy Open for LPGA caddies and players and three Northern California Golf Association events.

Sloped 10 to 15 percent, TCGC is a natural wetlands fed by 28 underground springs which cross the course diagonally. Only an acre and a half of the property is hard surface. Uphill on one corner of TCGC are 33 residences, a church, and community center. A cemetery, an elementary school, softball fields, a supermarket and other businesses flank other fairways and greens.

"We had been careful with our chemicals, but we hadn't done testing or checked our fertilizer," said E. J. Belding, a civil engineer and general contractor who is married to the chair of Tahoe City Golf Course, Inc., the Bechdolt partnership corporation.

E.J. spent six months analyzing the most cost effective way to meet environmental criteria. He researched wetlands literature at the University of Nevada, Reno, the University of California, Davis, and the University of Denver. He putted through such tomes as "Constructed Wetlands," "Guidelines for the Construction of Wetlands," and "The Analysis of Constructed Wetlands."

"I found that in terms of water quality at low temperatures, say 48 degrees, bacteria go to sleep. Water goes through the plants, however, and into the Truckee River. Chemically speaking, you don't get any breakdown," E. J. said.

E. J. and TCGC's greens superin-

tendent Brad Bonino, Bobby's brother, who came to TCGC in 1989 with six years greens experience, engineered two wetlands areas and one major pond. Previously, TCGC had only one pond.

The wetlands, which are four to six inches deep, function as secondary water treatment facilities to cleanse contaminants. They can handle a one-hour flow velocity of a 20-year storm.

The ponds are settling basins which catch debris and process harmful nutrients.

"We annually get 10 to 20 yards of silt out of one of the ponds," E. J. said. "We reuse the silt as fertilizer on other areas of the course."

Capitalizing on the ability of certain native plants, e.g., cattails and reed grasses, and bacteria to absorb pollutants, TCGC staff recently transplanted some natives from a nearby mountain meadow.

"We're now getting root zones to be effective, but it will take 15 to 20 years for them to really take hold," E.J. said.

"I think they're doing well, even better than expected due to our short growing seasons. We keep babying the system along."

His current favorite reference for keeping TCGC in shape is "Constructed Wetlands For Water Quality Improvements."

By California law fertilizer is kept to a minimum. Brad uses Turf Supreme Mini Pellets on the greens every three weeks. Tees are fertilized bimonthly, fairways lightly twice a year. Dry spots are handwatered daily. Some weeds are handpicked, most are mowed to prevent overseeding. In the autumn, greens are treated with the fungicide FFII to keep snowmelt down.

"All the while we are tested once a month by the state water board to see if anything is leaching into the ground water," Brad said. "We have about five test wells over the course."

Detention ponds, cobble ditches, and

Continued on next page

Best Sand. Because Sometimes More Of The Same Is Exactly What You Want.

Quality sand for the golf course. Consistent from one season to the next. That's important to you. And it's exactly what we deliver.

Bunker sand, topdressing material, construction blends, drainage gravel and more. Backed by technical know-how and outstanding service. Delivered on spec and on time direct from our quarries.

Call 800/237-4986 to order the sand you need now. And next year, just ask for more of the same.

BEST SAND

P.O. Box 87
Chardon, Ohio 44024
800/237-4986
Fax: 216/285-4109.

A subsidiary of Fairmount Minerals, Ltd.

CIRCLE #114

CARTS

The Best Flags,
Signs, Flagsticks,
Tee Markers,
Practice Green
Markers,
And
Accessories
Ever Made.

Call today for a catalog and more information.

FORE-PAR

DISTINCTIVE GOLF COURSE ACCESSORIES

16761 Burke Lane, Huntington Beach, CA 92647
Phone 714 842-8494 / 800 843-0809

CIRCLE #115

FOR SALE PALM MEADOWS GOLF COURSE

SAN BERNARDINO, CALIFORNIA

Beautifully landscaped eighteen-hole, 6,659 yard, par 72, core-style course on approximately 170 acres. Features include:

- Four ponds
- Tree-lined fairways
- Several signature holes
- Challenging natural and manmade hazards
- Driving range
- Putting greens
- Large clubhouse with all amenities

Located 55 miles east of Los Angeles on the former Norton Air Force Base at the foot of the scenic San Bernardino Mountains.

Call now for more information about Palm Meadows and other golf courses soon to be made available to the public in the western United States.

Ken Paulson (415) 744-5599



GENERAL SERVICES ADMINISTRATION

Office of Real Estate Sales
525 Market Street (9DR)
San Francisco, California 94105

CIRCLE #116

Internships a win-win situation for courses, students

By MARK LESLIE

As turfgrass management becomes more technical and specialized, golf course superintendents are finding it increasingly important to have more knowledgeable crew members. And so they are pursuing agronomy students, offering positions on their crews in a win-win situation — the student intern gains experience and the superintendent gets a knowledgeable employee.

"Having a dependable core of folks who are going to understand more in-depth what turf maintenance is about, and what golfers want, is an asset," said Bob Brame, agronomist with the U.S. Golf Association's Mid-Atlantic Section.

Saying that most of his interns from "top-notch programs like Michigan, Iowa and Ohio State," Medinah (Ill.) Country Club superintendent Danny Quast said: "They already have four or five years working on a golf course. All the basic training has been done. Plus they come with a great attitude and they're excited about the job, conscientious, educated and experienced. That's a perfect formulation."

"We not only have the facilities to house people, which I think is key. We're making internships very valued positions instead of learn-as-you-go," said Greenwich (Conn.) Country Club superintendent Greg Wojick. "We're looking for the top one percent of students, enticing them with top pay, living quarters, bonus potential and responsibilities that are not typical for an intern."

Those responsibilities include pest monitoring and scouting, chemical applications, and manhour recordkeeping, inventory control, a full range of technical training, irrigation scheduling and other administrative duties.

"In the past, a lot of courses have thrown students out into low-level jobs and had them bite off as much as they could chew," Wojick said.

"We're giving them a lot of responsibility in the maintenance facility and then, when



Apartment in Greenwich (Conn.) Country Club's housing unit would rent for \$1,200 a month, says superintendent Greg Wojick.

appropriate, putting them out in the field," he said.

Having turfgrass students is "certainly an important improvement," said Bruce Cadenelli, superintendent at Caves Valley Golf Course in Finksburg, Md. "You have another pair of trained eyes — someone who is more enthusiastic and energetic."

"It's been difficult getting good people. I think when we do, it is in a small way,

paying back the profession, and it's win-win. The club gets good people to work and it's an opportunity for them to learn," he added.

"I've been in the business 30 years and seeing my interns go out and be a success is the most rewarding part of it," Quast said, adding that he has hired a number of them as superintendents at his three courses.

Attracting best interns: Major investment, big rewards

Continued from page 15

filling up [job openings]."

One of Caves Valley's five maintenance buildings is a 1,200-square-foot structure. It contains a one-bedroom apartment for an assistant superintendent, and two college-style dorm rooms that share a livingroom and bath. A washer/dryer room is also included.

"The rooms are not luxurious but certainly adequate for the four-to-six-month period they [students] will be with us," Cadenelli said.

For the 1994 season Caves Valley has attracted one student each from the universities of Massachusetts and

Maryland, Penn State, Michigan State.

"It's not the Ritz," said Danny Quast of his dormitory at Medinah (Ill.) Country Club, "but it serves its purpose."

His 11 rooms include two set aside for interns, each room with two beds. Employees are served three meals a day seven days a week at the clubhouse dining room.

To keep up with the Greenwich Country Clubs, Caves Valleys and Medinachs, other courses must first find the cash. But, as the USGA's Brame put it: "The kick has been making the initial investment. Even if a course can rationalize building a facility, it still has to come up with the money."

Turf students garner GCSAA scholarships

LAWRENCE, Kan. — Joseph Livingston of Elk Point, S.D., an Iowa State University junior majoring in turfgrass management, received the Chester A. Mendenhall Award as the outstanding student in the Golf Course Superintendents Association of America's (GCSAA) 1993 scholarship competition.

The award honors the late charter member of GCSAA.

Scholars are selected on the basis of academic excellence and potential to become leading professionals in golf course management and related fields.

Robert G. Marshall of Kitchener, Ontario, Canada, a senior at Michigan State majoring in turfgrass management, received the Ambassador Award as the outstanding student from outside the United States.

Other winners and the schools they are attending are Michigan State University students Matthew J. Ashton of Lake Orion, Mich., and Mark Krick of Brighton, Mich.; Colorado State University students Jason Aerni of Roundup, Mont., and David L. Calder of Bemidji, Minn.; Penn State University students Stephen P. Edkin of Lebanon, Pa., Edward W. Gross of State College, Pa., and Gary L. Heath of King City, Mo.; North Carolina State University student Chris Hartwiger of Raleigh, N.C.; and University of Nebraska student Troy J. Merkel of Omaha, Neb.

Family pulls together

Continued from previous page

small landing areas add to the course's appearance and playability, said Bobby. "It did and does cost a little more money to function and meet regulations," Bobby said. "But it's better than getting a \$1,500 to \$10,000 fine for not complying."

To cover expenses, the Bechdols raised greens fees to \$32 and spent profits. They hope to replace their 40-year-old clubhouse, consolidate the maintenance yard into it, and repave driveway and parking areas. Within the next 10 years, they plan to add more of the easily cleanable, black fiberglass concrete paths. All will require environmental permits.

For now, however, the Bechdols are battling with a bi-state environmental agency and the county over a proposed community plan for the town and a storm drainage project. Aspects of the community plan might require dangerously narrowing the course and relocation of a green. The county is seeking easements on the course which would temporarily shut down two fairways and move a hole during excavation of an 18 to 20-foot ditch.

"We would like to see something done, but it will all be tied up in litigation," E.J. said. "Most frustrating is ignorance ... political answers that aren't cost effective."

GOLF COURSE NEWS

Designed to keep your turf healthy.

BROUWER VERTICAL MOWER

Make sure those expensive chemicals and fertilizers are doing their best job - by getting right to the roots of your turf via aeration created by the Brouwer Vertical Mower.

The Brouwer Vertical Mower also improves water distribution, prevents thatch build-up, improves the success rate of overseeding and reduces surface compaction.



BROUWER

TURF EQUIPMENT LIMITED

289 N. Kurzen Road
P.O. Box 504
Dalton, Ohio USA 44618

Tel. (216) 828-0200
Fax (216) 828-1008

Universities move forward on 'research' courses

Clemson's 'working lab' wonderful opportunity, all disciplines agree

By MARK LESLIE

CLEMSON, S.C. — With an anonymous \$1 million donation pushing Clemson University's fundraising over the top, builders in mid-February began construction of an 18-hole handicapped-accessible golf course — designed to be a "working laboratory" for researchers and students, as well as a championship-level track for its golf team and others.

"This is going to be wonderful for us," said Dr. John Kelly, chairman of the Horticulture Department. Construction, he said, coincides with Clemson's expansion of its turfgrass program, an effort to double its research, and addition of a "distance-delivery degree program" to the Myrtle Beach area through Horey Georgetown Tech.

"We have a wonderful opportunity here," said Jeff Martin, director of conference and guest services, referring to the golf course and accompanying conference center. "We're excited about the turfgrass research, and our accessible-golf initiative. It will be totally accessible to every golfer regardless of

physical handicap."

"The design team has worked hard to ensure the criteria set by faculty are met."

Kelly said the project will address three areas:

- Managing chemicals in a golf course environment, and breeding and working with turfgrass species.

- Researching accessibility to the physically handicapped, including what impact that might have on golf course maintenance.

- Dealing with issues of the game, such as speed of play, efficient management, and visitor preferences.

"This is a team approach. We have people from all kinds of backgrounds centering and working together. The ideas that come out are terrific," Kelly said.

Faculty from agronomy to biology, physical therapy and hotel management expect to do a tremendous amount of work and research at the facility.

A host of studies is anticipated — from the movement and fate of pesticides to

Continued on page 67



UGeorgia benefactors will turn back course profits to work of scientists

By MARK LESLIE

GAFFIN, Ga. — Ground breaking looms as early as

September for the University of Georgia's 21-hole golf course here, and the school may be doubly blessed by the developers — two men intent on being benefactors to the game they love.

Ted Senters and Sam Smith of Macon, who formed Research Golf Inc. specifically to build the course, want to leave a legacy.

"We're looking at three or four different structures of financing. The one we're inclined to go with would generate more dollars back to the university for research and education," Senters said.

"There is a great need for turf research — not only to benefit golf courses but for all the other benefits that come out of research.

"We want to leave a legacy that's beneficial for millions of people rather than generate revenue for ourselves."

Senters and Smith are coordinating investors and seeking contributions toward the course, which they will develop and manage.

They have an extensive list of people in the golf industry — from chemical companies to the irrigation manufacturers — who have expressed an interest in participating, Senters said.

While Bob Cupp has signed on to design

the course, Research Golf has not sought a builder.

...

UGeorgia faculty are excited by the opportunities the facility will provide them and their research, said Dr. Ed Kanemasu, research leader for the school's Crop and Soil Science Department.

On any day, 18 holes will be playable and three will be used by the researchers.

"The reason for the course is to solve problems," Kanemasu said, adding that the school will, therefore, make it "visible to people involved in the turfgrass industry."

The faculty plans to conduct field days, bringing Extension personnel, superintendents and others onto the course "to see the kinds of research activities taking place, and to get their input as to what individual problems we should be looking at."

...

In the meantime, UGeorgia officials are still awaiting a decision from the state attorney general.

Since the golf course is a business associated with a non-profit educational institution, the attorney general is investigating issues concerning how payments will be made.

"If they [payments] are related to revenue received, it would give the perception that we're involved in the golf course business," Kanemasu said.

OUTREACHES THE PRETTY BOYS

That's The Beauty Of A National.

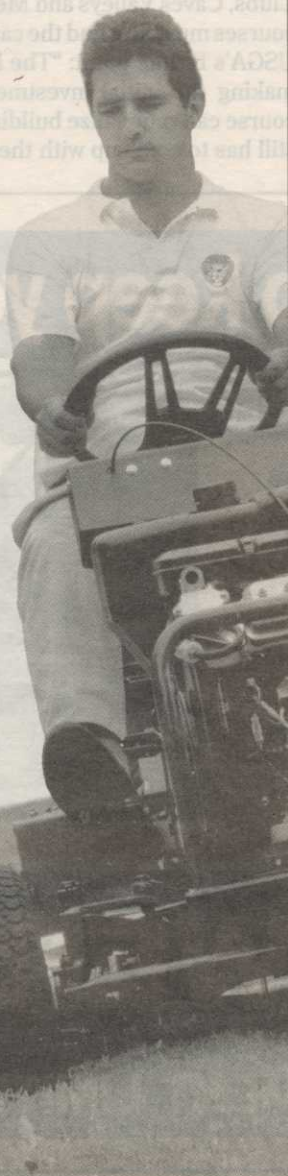
21" of reel outside the wheel. That's a claim the others can't make. With a National's flexible design, sand bunkers, curbs, or any trimming tasks are well within reach.

Call us, or your dealer today to try one on for size.



NATIONAL MOWER COMPANY
700 Raymond Avenue
St. Paul, Minnesota 55114
Phone: (612) 646-4079
FAX: (612) 646-2887

NATIONAL® is a registered trademark of National Mower Company.



Penn State's course addition leaves six holes for use by researchers, Athletic Department

By MARK LESLIE

UNIVERSITY PARK, Pa. — Penn State University officials have given the go-ahead for six of the university's 42 golf holes to be maintained and managed by students and serve as a laboratory for scientists.

"By involving the turfgrass, physical education, golf management, and public instructions in the project, these holes will serve to fulfill the university mission of education, research and community service," Penn State PGA pro Jeff Mowrer said in his strategic plan for the six-hole track, called the Nittany Course.

"It's a great learning project. You need more hands-on training," said Scott Rushe, assistant superintendent at Penn State's Blue and White golf courses. "I think it will be the only course in the United States run by students."

"It will give us more of a controlled environment. We have no control of the two other courses. We will be able to do long-term research," said George Hamilton, who leads the school's two-year turfgrass program.

A turfgrass student could be superintendent, while a golf management major could intern as manager of the facility, Hamilton said.

At the same time, setting the holes apart from heavy use will allow more unencumbered research.

"We will probably do more research like low-input — low pesticide and low

fertilizer use," he said.

Minimal green fees would mean golfers, many from physical education classes and public group programs, would not demand high-quality turf, so low-input maintenance will be feasible, he said. "You can't do that kind of research on more expensive courses."

Rushe explained that last year 11 holes were built or renovated on the Blue and White tracks. The result was two 18-hole courses and another six holes "left over."

He said Penn State hopes to receive donations of equipment and products for the student-run Nittany Course.

Hamilton said the Nittany Course "might fit our two-year program better than the four-year program."

The two-year internship is from February to September. Four-year students leave in May and return in September.

Mowrer expects the Nittany Course to alleviate some of the overcrowding problems of the past, and to serve as a place for beginning and re-entering golfers to learn the game. Public junior programs, sports camps and other group sessions are expected to be initiated at the facility.

"The first year there will probably be no clubhouse," Hamilton said.

"There could be a starting house/maintenance building. And after the first couple of years, we could build a clubhouse."

Experts from other universities assist Clemson in move to upgrade turf program

CLEMSON, S.C. — Drawing from the experiences of experts from other college turfgrass programs, Clemson University is "jump-starting" its turfgrass studies, according to the chairman of its Horticulture Department. At the same time, it is starting a new off-campus turfgrass program and is asking the state Legislature to more than double its turfgrass research funds.

"They all just happen to be coming together at the same time," said Dr. John Kelly, who is also a co-founder of the South Carolina Turfgrass Foundation, which raises money for the Clemson research.

"We, as a land grant institution, have the responsibility to stay abreast of cash products and turfgrass issues related to tourism in the state," said Jeff Martin of the university administration.

Colleagues from five turfgrass programs around the country — especially Gordon LaFontaine and Joe Vargas from Michigan State University — consulted Clemson on its turfgrass plans.

"They explained the dynamics of their programs and the types of things they did. We jump-started our program by using their information," Kelly said. "We were able to jump a number of years ahead."

Clemson's four-year turfgrass program now has 35 undergraduates.

Meanwhile, Clemson is developing what Kelly termed "a distance-delivery degree program" to the Myrtle Beach area. It will be taught by faculty from Clemson research centers and via satellite in partnership with Horey Georgetown Tech. Students receiving two-year degrees from Horey Georgetown will be able to stay in Myrtle Beach and take two more years of classes, long-distance, to complete a four-year degree program.

Coincidentally, Clemson has submitted a \$915,000 budget request to the state Legislature "specifically to expand our turfgrass research program," Kelly said. If passed, it will more

than double the current research.

"Right now, we have little bits and pieces of people's time. They might spend 10 percent of their time on turf and 90 percent on another commodity. We want to purchase more of that time to deal specifically with turfgrass problems," he said.

South Carolina's 336 courses account for \$450 million in income a year, making golf the state's

first- or second-leading industry, Kelly said.

"This is a very critical year for us," he said. "We have the funding to build the golf course (see accompanying story). But we do not have a pool to fund the research and education programs we want. We are seeking donors for that part, too. If everything comes together we will have a very well-developed program."

John Deere, regional distributors add equipment boost to Clemson

CLEMSON, S.C. — John Deere and its distributors in the Carolinas have given Clemson University what one official called "an incredible gift" for its new golf course.

Greenville (S.C.) Turf and Tractor and Revels Turf and Tractor of Fuquay-Varina, N.C., joined the parent company in providing, for an

undisclosed fee, "a complete package of every piece of equipment a golf course could need," said Greenville Turf and Tractor owner Lon Fleming.

"It was done with training of superintendents in mind, and hopefully it will enhance their education," said Fleming.



Now Poly-S® Performance Comes In Two Unbeatable Sizes.

The traditional formulation of SCOTT'S® exclusive Poly-S Technology has proved its effectiveness on over 5,000 golf courses in the U.S., Canada and worldwide. And now, for more demanding, fine turf applications, Poly-S Technology is also available in smaller particles for use on all turfgrasses, including low-cut fairways and tees.

The smaller particle Poly-S fertilizers provide the same extended nutrient release and improved nitrogen efficiency that has made Poly-S the fastest selling fertilizer in history. And they are available in a variety of formulations to meet different application needs.

High K Turf Fertilizer provides a high level of available potassium to enhance the hardiness of the turf — in addition to initial green-up and extended residual.

Nitrogen/Potassium Turf Fertilizer offers a balance of nitrogen and potassium to strengthen the turf while providing quick initial green-up (without surge growth), sustained growth, and extended residual for more predictable long-term feeding.

Turf Fertilizer provides more initial green-up while supplying maintenance levels of readily available phosphorus and potassium.

Turf Nitrogen offers extended nutrient release for up to 10 weeks, while supplying sufficient sulfur to help correct deficiencies and maintain adequate soil levels.

Turf Fertilizer Plus Iron includes sufficient iron in plant-available form to correct and prevent deficiencies.

Super Turf Fertilizer offers the

longest residual currently available from any Poly-S fertilizer — up to 12 weeks.

Of course, Poly-S fertilizers also come with a Scott Tech Rep, an agronomically trained professional who is ready to help you develop a total turfgrass program.

For more information on Poly-S fertilizers, contact your Scott Tech Rep. Call 1-800-543-0006 or fax 513-644-7679.



Poly-S® Fertilizers

RESEARCH HIGHLIGHTS CONCLAVE

TIFTON, Ga. — A golf tournament at Spring Hill Country Club launches first-day activity of the 48th Annual Southeastern Turfgrass Conference April 11-12.

Afternoon highlights are registration and inspection of Experiment Station research plots and a discussion of turf research by U.S. Golf Association (USGA) and University of Georgia researchers.

Second-day sessions feature an educational programs.

Speakers include Jim Snow, national director of the USGA Green Section; Drs. Bob Carrow, Gil Landry, Ed Brown, Wayne Hanna, Glenn Burton, Will Hudson and B.J. Johnson of the University of Georgia.

The mole cricket plague

Tests at 200 courses show positive results with nematodes

By HAL PHILLIPS

TAMPA, Fla. — The use of nematodes to fight mole crickets is gaining acceptance in Florida, where more than 120 superintendents have experimented with this cutting-edge technology.

"We've observed more than 200 golf course applications at approximately 125 different sites," said Cameron McCaskill, president of BioControl, Inc., a Tampa-based firm specializing in cricket-combating nematodes.

"We began the commercial distribution of the nematode in late 1992, and from the feedback we've received in our first full year of business, I'd say 80 to 90 percent of our customers are satisfied with the results."

About 10 years ago, the federal Environmental Protection Agency banned persistent chlorinated hydrocarbons, the superintendent's best weapon against mole crickets. Since then, golf course managers from Houston to Raleigh, Knoxville to Key

West have fought a protracted, largely unsuccessfully battle against this burrowing pest.

While McCaskill hastened to point out that nothing will ever completely kill off the mole cricket, nematodes are most effective when used in concert with applications of two existing chemicals, Orthine and Ofthanol.

Nematodes are most effective against the adult mole cricket, while the chemicals are better suited to elimination

Continued on page 26

Mole crickets thrive in S' east, not bothered by natural enemies

In the Southeastern United States, the mole cricket has become "Public Pest No. 1" because it has no natural enemies.

This burrowing pain in the drain has no native environmental foes because the species was introduced to the North American continent from Uruguay. They were first spotted in the Sea Island, Ga., area at the turn of the century.

"They came over in the ballast of ships, but none of their natural enemies were brought with them," explained Cameron McCaskill, president of Tampa-based BioControl, Inc., a firm that specializes in the biological combat of mole crickets.

"Mole crickets have no natural enemies on this continent. Armadillos like to eat them, but it wouldn't be very practical to let armadillos run wild on a golf course.

"Some birds will eat mole crickets, but only as a last resort."

In some cases, elimination — or attempted elimination — of a certain species

can result in the rise of another pest. However, because the mole cricket is not native, it neither provides an ecological check nor balance.

In short, its place in the ecosystem is largely extraneous.

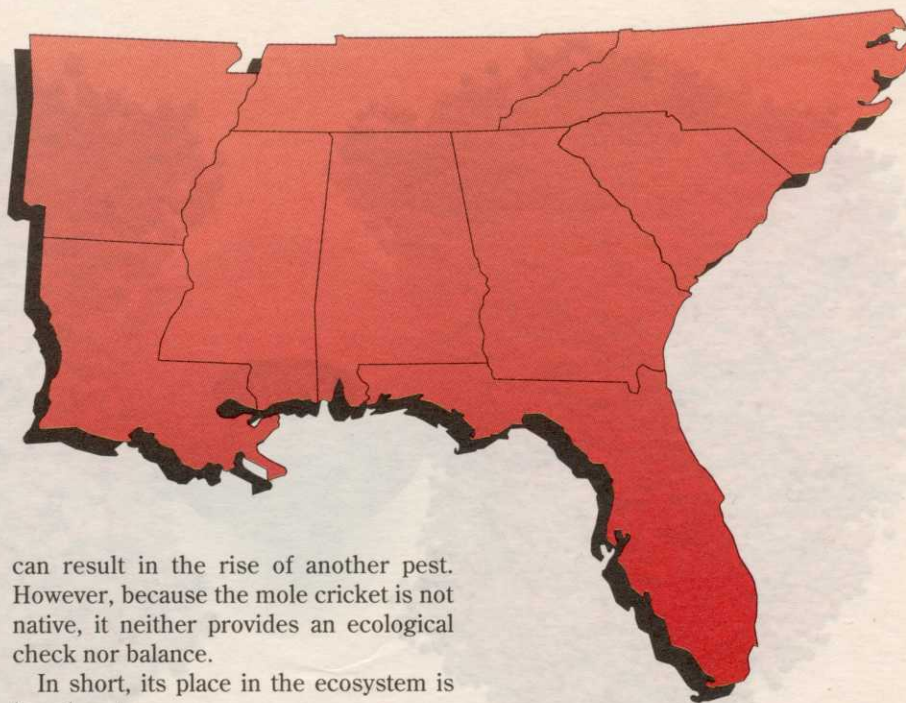
"If the mole cricket were completely eliminated tomorrow, no one would miss it," said McCaskill.

...

Some superintendents cautiously admit they believe mole crickets are more active

under a full moon. They're absolutely right, according to McCaskill.

"Mole crickets are nocturnal feeders," he said, "but they're attracted to light. The more natural light — as exists under a full moon — the more surface activity."



Research promising, but nothing yet said 'revolutionary'

By DR. MIKE KENNA

The quest for alternative control methods of Tawny and Southern mole crickets has turned up several promising methods, but nothing that has revolutionized the way golf course superintendents deal with these devastating pests.

Dr. Howard Frank, University of Florida, has tried to fight mole crickets with naturally occurring enemies, such as nematodes, flies, and beetles. Dr. Frank's first attempts resulted in the introduction of the South American nematode, *Steinernema scapterisci*, which was inoculated on to six golf courses in south Florida.

Small fenced in areas, with battery operated devices that mimicked the call of crickets, were inoculated with the best nematodes identified by Dr. Frank. The cricket callers attracted crickets to the inoculated area. Once in the fenced area, the crickets would have to burrow through the nematode inoculated soil to escape. The nematodes eventually kill the host cricket and leave eggs in the soil for future inoculations.

"The evaluation showed that the nematode infected and killed more crickets, but did not build up large populations in turf," reported Dr. Frank. "However, immediate control within one week of application was 62 percent for adult crickets, therefore, the nematode may have considerable potential as a biopesticide for use in repeated applications."

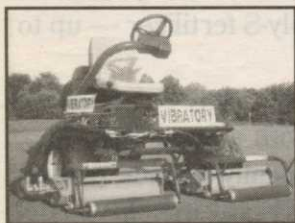
More recently, Dr. Frank and his associates have introduced a Brazilian fly, *Ormia depleta*, into Florida. "Its population has grown and spread to at least 30 countries in Florida," said Dr. Frank. Trap-catches of the Tawny mole crickets indicate reductions of 36, 74, and 95 percent at three sites where fly populations have established. "These differing percentages seem to be attributable to differences in nectar (energy) availability to adult flies," suggested Dr. Frank. New research has been proposed to include specific nectar-producing plants in to the golf course landscape that would provide the necessary energy and habitat for the fly.

Yet another promising predator that Dr. Frank and his associates have identified is the South American bombardier beetle, *Pheropsophus aequinoctialis*, which comes from the homelands of mole crickets. A proposed research project suggested by the group

Continued on page 26

TRUE-SURFACE™

VIBRATORY GREENS ROLLING SYSTEM



• Patented Vibrating Action

- Lightweight • Improved Agronomics
- Twice as Fast as "sidewinders"
- Reduce Double Cutting and Mowing Frequency
- Increased Playability Following Standard or Deep Aeration
- "Quick Attach" System Installs in Minutes
- Used at PGA 1992 / Senior Skins 1994
- Fits Toro, Jacobsen, Lesco and Bunton
- One Year Limited Warranty

Bunton & Lesco
Units Now Available



TURFLINE, INC. • (800) 443-8506
327 Willowpointe Dr., St. Charles, MO 63304
(314) 441-8588 • Fax (314) 441-8180
(Selected Distributorships Available)

SUPER-ACCELERATED BREAKDOWN OF THATCH

Water absorption increased up to 50%

University field tests* at a major golf course
showed a 1-5/8" THATCH REDUCTION.

envirogenesis™
**Thatch
Biodigest**

- Economical to use - treat 18 greens for less than \$500
- Significantly reduces Dry Spot
- Environmentally safe - advanced biotechnology
-No Chemicals

1-800-814-1324 • 703-941-3900
• Fax 703-941-1508

Envirogenesis, Inc. • 6634 Electronic Drive, Springfield, VA 22151

*Contact Envirogenesis for full report on thatch study
Dealer Inquiries Invited

Mike Kenna, PhD, is director of Green Section Research for the United States Golf Association. He works from the USGA office in Stillwater, Okla.

Superintendents tackle mole crickets in a variety of ways

By HAL PHILLIPS

In the words of one superintendent, who requested anonymity, "If you want to beat the mole cricket, you've got to think like a mole cricket." If we accept that no two bands of mole crickets are the same, then it would follow that no two approaches are the same either.

Some believe applications must be made by the cover of nightfall. Others rely on the moon for timing, while an increasing number swear by the nematode approach.

One thing is indisputable: Mole crickets are the most damaging pest in the Southeast and a panacea has not yet been found.

What follows is a sampling of anti-cricket techniques gathered from Florida superintendents.

Chip Fowkes, Emerald Dunes Golf Club, West Palm Beach: "We've found the key to getting rid of mole crickets is scouting, scouting, scouting," said Fowkes. "The key is knowing where they're gonna be and where. I even have a crazy assistant who cuts them open and looks for eggs. If we find eggs, we know we have a couple of weeks to really go after them."

"We use Crusade (Lesco) for our major hit and follow the label exactly. You have to water the stuff in with a half-inch of water — and sometimes you don't realize how much a half-inch really is. We follow up with Orthene (Valent) or Pageant (DowElanco). We haven't used Ofthanol (Miles) for a couple of years, and we may use it this year."

"It all depends on your tolerance level. I don't mind having mole crickets in my rough. In my rough I use a mild bait. It's slower acting, but we accept a certain level in the rough. It doesn't disrupt anything."

Tim Hiers, Collier's Reserve, Naples — Hiers hasn't met the enemy in more than a year, he has some time-tested beliefs.

"With a mole cricket, there's a lot of room for guess-work," said Hiers, "You may have a great kill one day and do the same thing the next day, and nothing happens. But I believe you must get them when they're small. Soapy applications tend to bring them to the surface, and you can tell when there's been a big hatch."

"The atmosphere must be right. If it's dry or cold, it's no good — the crickets are deeper in the soil and the transposition isn't optimal. Applications should come after irrigation and at night. At night the wind is down, the animal activity is down, and the crickets are more active."

Hiers said one of his best kills came by accident. He spread an application one day simply to dispose of the bag. It had been cold four nights in a row, so the crickets hadn't eaten in days. It warmed up the night after the application and — presto! — a great kill.

Mark Jarrell, Palm Beach National G&CC, Lake Worth — "What I've done in the past is apply Ofthanol in late May/early June,

followed up spot treating with Orthine," said Jarrell. "But if you use Ofthanol more than one year in a row, it loses its effectiveness."

"This past year, I used Pageant, a dursban product — just spot treatment. It worked pretty well, but we still have mole cricket activity out there right now."

Nematodes? "Some people think it reduces the levels," he said, "but it didn't take them all out. If you can live with some mole cricket activity, that may be

a good course of action."

Any tips? "I think everybody has probably tried to spray late in the evening. If you put out Orthine in the morning, you get photodegradation. Some guys take it to extremes — because they can burrow two feet down, if you get a lot of rain, they come up to the surface."

Greg Plotner, Tampa Palms Golf & Country Club: "We experimented with biological controls briefly last year and we

haven't formulated a plan of attack for next year," said Plotner. "We'll probably work with them this summer. They work, but we don't know whether to put all our bang into that buck. It can be expensive."

"My best results were achieved by using Orthine, and it'll be in my program this summer," added Plotner, who uses a 1 percent Dursban, weatherized bait. "We know that right here in central Florida, the hatch will be the second week in May — so our

application will be the first or second week in June. If we can get a good knockdown that week, we can treat hot spots as need be."

"We definitely use the moon cycles, and we plan our baiting procedures around the moon cycle. We get a better kill. People laugh but it works."

"If you've done a good job, you shouldn't have much of a problem January through March. We're awfully clean right now, so we must have done a good job."

*This publication gives
you good reading,
good writing
and good arithmetic.*

We present the information in our articles clearly, accurately and objectively. That's good writing. Which means good reading.

We present the information in our circulation statement clearly, accurately and objectively. That's good arithmetic.

BPA International helps us provide precise and reliable information to both advertisers and readers.

An independent, not-for-profit organization, BPA International audits our circulation list once a year to make sure it's correct and up to date. The audit makes sure you are who we say you are.

This information enables our advertisers to determine if they are reaching the right people in the right marketplace with the right message.

The audit also benefits you. Because the more a publication and its advertisers know about you, the better they can provide you with articles and advertisements that meet your information needs.

BPA International. Circulation Intelligence for Business & Consumer Media.

270 Madison Avenue, New York, NY 10016, 212-779-3200.



Mole crickets impossible to eradicate, but major progress made

Continued from page 24

of juveniles and nymphs, McCaskill explained.

A single application of the nematodes costs approximately \$190 per acre, according to Dr. Max Brown of Liquid Ag Systems Inc. in Pompano Beach, Fla. A single application of Orthine costs anywhere from \$60 to 80 per acre, said Brown, who noted that monthly applications of Orthine are not uncommon in Florida.

"We recommend an approach that isn't primarily biological," said Brown. "Mole

crickets aren't all adult at the same time. So, under any circumstances, you won't control them. We recommend biological application at two key times of the year, then chemical applications in May or June to kill the juveniles in isolated areas."

...

Nematodes work this way: The tiny organisms are suspended in water and spread on the turf through a broadcast spray apparatus. Ultra-violet rays will kill the nematodes instantly, so application must come at dusk or on a very cloudy day.

Even in overcast conditions, the nematode-laden solution must be immediately "watered down into" the soil to avoid the ultra-violet rays, said Brown.

Once in the soil, the nematode can stay there for up to three months, waiting for an unsuspecting mole cricket to crawl by. When it encounters the mole cricket, the microscopic nematode immediately attaches itself and crawls inside via any number of orifices: breathing holes, mouth, eyes, anus and crevices in the exoskeleton.

The nematode then releases a bacteria that kills the mole cricket within 48 hours (the bacteria also provides sustenance to the nematode). In the meantime, the nematode lays up to 80,000 eggs in the carcass. The eggs hatch and this substantial colony of nematodes lives on the bacteria until the next victim passes by.

"The two windows of opportunity come in the winter, somewhere between January and March, and late summer — between August and October," said Brown. "Each of these should be followed by a nighttime chemical application during the full moon, because there is a lot of surface activity during a full moon."

Brown estimated that superintendents spend between \$15,000 and \$70,000 each year combating mole crickets with ordinary chemical applications.

"We're finding the nematode/chemical program costs less, when all is said and done," Brown said. "And if you time it right, you kill the adults before they lay their eggs."

Kenna on research

Continued from page 24

would evaluate whether the larvae of the beetle are specific predators of mole cricket eggs. This would be a major breakthrough to eliminate mole cricket eggs before they have a chance to hatch. Research by Dr. Dan Potter at University of Kentucky has indicated that natural predators reduce 75 percent of the white grub eggs found the soil.

A different approach attempting to solve the mole cricket problem involves the identification insect pheromones, or chemicals that insects use to conduct a kind of "long-distance" communication. Dr. Leon Stacy, a private consultant in Sea Island, Georgia, made crude extracts of two sex pheromones and an alarm substance. "During the cricket flight season, acetone homogenate of sex glands from male and female crickets were biologically active and appeared to act as attractants," reported Dr. Stacy. "A concentrated alarm substance from the rectum of crickets significantly reduced fly-in crickets." However, late season tests with the alarm substance formulated in spray mixes and applied to turf had no apparent influence on crickets.

The USGA Turfgrass Research Committee recently agreed to fund a mole cricket control project at North Carolina State University under the direction of Dr. Rick Brandenburg. He will be cooperating with Dr. Mike Villani, Cornell University, to identify the active chemical pheromones in crude extracts similar to those prepared by Dr. Stacy. The two universities will also cooperate to better understand the environmental conditions that affect mole cricket behavior and compare the activity of healthy mole crickets with those that have been infected with nematodes.

"This collaboration provides the unique opportunity of combining recognized field experience and expertise on mole cricket management with similar expertise on soil insect behavior, response to nematodes, and pheromone biology," said Dr. Brandenburg.

Stay tuned as the search for alternative methods for controlling mole crickets continues.

ASI



**GOLF COURSE IRRIGATION
NATIONWIDE**

**(407) 732-0105
(407) 364-5507 FAX**

P.O. BOX 3446
BOYNTON BEACH, FL 33424

CIRCLE #123

Don't get "teed" off!

Tee up everytime on Meyers Zoysia.

Meyers Zoysia fairway grass will give perfect ties.

If you've ever watched your fairways change into pathways, it's probably time for you to call Tip Top Turf,* the world class professionals who can take whatever you've got and turn it into everything you've always wanted.

* Specializing in Fairway Conversion

• Solid Sod • Row planting
• Sprigs • Strip sodding

• Overnight Delivery
• 2-day renovations
(complete turnkey operations)

For more details call

1-800-458-4756

DOUBLE SPRINGS GRASS FARM

TIP TOP TURF

SEARCY, ARKANSAS

CIRCLE #124

Fight Slow Play

*The First and Only Real Yardage
Marking System Ever Developed*



- **Speeds up play** - proven to save 30 minutes per round at many courses, therefore more income for the course. The Kirby Marker System can pay for itself with increased revenue in a few short weeks.
- **Increases enjoyment of the game** - no walking up and down looking for sprinkler heads, posts or bushes and then "pacing" them off.
- **Unobtrusive** - does not detract from the beauty of the course. Invention allows markers to depress under mowers and carts.
- **Installed** - at many of the World's finest courses - Pebble Beach, Spyglass, the Olympic Club and many more.



KIRBY MARKERS

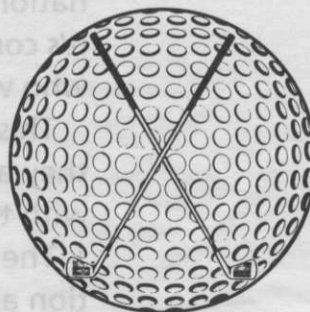
"The Golf Time-Saving Specialists"

1-800-925-4729

CIRCLE #126

Formost Construction Co.

Serving the nation for over 30 years.



IRRIGATION SPECIALISTS

"Doing One Thing Well"

STATE LIC. #267960

P.O. BOX 559

TEMECULA, CALIFORNIA 92593

(909) 698-7270

FAX (909) 698-6170

CIRCLE #125

Tour of Duty

SCOTT KROUT
Desert Mountain
Scottsdale, Ariz.
Senior PGA's The Tradition
March 31-April 3, ESPN

Scott KROUT, 30 was born to be a superintendent. KROUT's father was head superintendent for many years at Range End Country Club in Dillsville, Pa. Scott began working for his father at age 16, part-time during the school year and full-time summers. A bachelor's degree in business management from East Stroudsburg State University and a two-year turfgrass management degree from Rutgers University prepared him for the assistant superintendent post he held at Colonial Country Club in Harrisburg, Pa., from 1988-90. Desert Mountain hired KROUT as assistant superintendent of the Cochise and Geronimo layouts in late 1990. He was promoted to head superintendent in April 1992 and can take much of the credit for last year's GCN award as the Best Conditioned Course on the Senior Tour.

Things to look for: Hopefully drier weather. A record rainfall fell on Desert Mountain the month before last year's tournament, 10 inches during the month of January alone.

Since many of the normally dry washes come into play, KROUT's crew performed extensive drainage work to get the course ready for last year's tourney. It rained Monday and Tuesday of tourney week, but fortunately cleared just in time for play to begin. This year's tournament will be played over the Cochise layout.

"It's a Nicklaus course and not very easy to maintain," KROUT said. "There's heavy mounding and undulating greens that are difficult to keep evenly watered."

Made-for-TV preparations: The Bermudagrass tees and fairways have been overseeded with ryegrass. They will receive a shot of iron to green them up for the cameras, KROUT said.

The bentgrass greens will be cut at 1/8-inch and should roll on the Stimp meter at 10 to 10.5, up from 9.5 of a year ago.

DAVID HICKS
English Turn Golf & Country Club
New Orleans
Freeport-McMoran Classic
March 31-April 3, NBC

English Turn has been David Hicks' home since he graduated from Texas A & M University with an agronomy degree in 1987. The 30-year-old superintendent, who also holds a bachelor's degree in business from North Texas State University, was assistant superintendent from 1987-90 before moving up to head man 3-1/2 years ago.

Hicks was well prepared for the post since he was on board during grow-in at English Turn, which opened in November 1988. The Freeport-McMoran, formerly the USF&G Classic, was first held in 1989.



David Hicks

Things to look for: The course has been overseeded wall-to-wall with ryegrass. The only exception is a 20-foot-wide natural area bordering a lagoon that surrounds much of the course.

Originally intended to reduce maintenance, the natural area provides an interesting contrast to the manicured fairways and is one of the layout's most distinctive features, Hicks said.

English Turn is wide and long, playing over 7,000 yards from the back tees. Frequent winds have dried the greens, making them difficult to hold in recent years, Hicks noted.

To soften them up, the grounds crew has performed more-frequent HydroJect aerification treatments and introduced wetting agents in recent months. Heavier watering during the tourney should help make them even more receptive, the superintendent said.

Made-for-TV preparations: Pros have complained about fairway mowing patterns leading directly to and away from tees affecting driving distance, Hicks said.

To minimize that effect, Hicks plans to mow fairways diagonally, resulting in a 45-degree striping pattern.

Hicks will introduce more iron and nitrogen to his fertigation system to green up the turf. Greens will be double-cut mornings and single-cut evenings during the tournament.

JUAN LOPEZ
Randolph Park North Golf Course
Tucson, Ariz.
LPGA's Ping/Welch's Championship
March 10-13, No TV

Born in Phoenix and raised in Tucson, Lopez, 50, has spent half his life with the Tucson Recreation Department. He began mowing greens 25 years ago, working his way through the system as an equipment operator, assistant superintendent, course superintendent and finally the head man in charge of the city's five courses — Randolph Park North and South, Del Rio Golf Course, Fred Enke Golf Course and Silver Bell Golf Course.

Things to look for: Randolph Park is planted in common Bermudagrass. That results in stress areas during the hot, parched summer months. This time of year, however, the course is overseeded with ryegrass and should be quite attractive, Lopez said. The bugs have pretty much been worked out of a new Rainbird Maxi irrigation system installed last September, he added. A sand trap in the middle of the 11th fairway and a pond/puddle in front of the 2nd green have been removed. Approximately 100 square feet of putting surface has been added to the 9th green, which will serve as the final hole for the tournament.

Lopez added spectator mounding behind the 4th green. The 6th hole has been rebuilt over the past two years and the finished product will be ready in time for this year's event. A fairly flat layout, what the course lacks in contour it makes up in length.

Made-for-TV preparations: The tournament has not been televised since the mid-1980s, Lopez said. "I would prefer to have it on television, but there isn't much I can do about it," he said.

Aside from not having to contend with laying television cables, the lack of TV coverage will not alter his preparations. Greens will be double-cut evenings and single-cut mornings at 1/8-inch to as low as 3/32-inch to get the desired 9 on the Stimp meter. Tees will be top dressed prior to the tourney.

Senseman leaves Columbia-Edgewater for Green Section

PORTLAND, Ore. — Bob Senseman, superintendent at Columbia-Edgewater Country Club here since 1989 and president of the Oregon superintendents association, will replace the U.S. Golf Association's (USGA) James E. Connolly in the Northeast.



Bob Senseman

Connolly, the USGA agronomist in New England since 1988, has joined Jacklin Golf in Post Falls, Idaho, as senior technical agronomist. (see related story, page 59.)

Senseman has extensive experience in course construction, and installed many irrigation systems at leading courses.

In his course superintendent capacity, Senseman has hosted several LPGA tournaments.

AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER

BEAUTIFUL SOLUTION NUMBER 6.

Crown & Geyser - 2 HP

Standard High Volume Flow (HVF) - 1 HP

Plume - 5 HP

- Interchangeable Nozzles
- 120 Volt Underwater Lighting
- Patented, High-Efficiency Stainless Steel Propeller Diffuser System
- Industry's First and Only 3 Year Motor Warranty
- No Seal or Internal Maintenance for 3 Years Guaranteed
- 1/2 to 10 HP Stainless Steel Housing with the Most Energy Efficient Motor Available

Underwater Cable Disconnect

BEAUTY BENEATH THE SURFACE

Aqua Master is the industry's only manufacturer of UL LISTED aerating fountain pump systems. Take a closer look at our beautiful solution to your water quality problems.

Aqua Master
FOUNTAINS AND AERATORS
Superior Aquatic Management Systems

16024 CTH X, Kiel, WI 53042
PH. 414 693-3121 FAX 414 693-3245

AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER
AQUA MASTER

Southeast

MURPHY, PATE, MONA TO SPEAK

PINEHURST, N.C.—A.U.S. Golf Association (USGA) regional conference will be held March 15 at Pinehurst Resort and Country Club in cooperation with the Carolina's Golf Course Superintendents Association and the Carolina's Golf Association.

Speakers will include PGA Touring pro and ABC television commentator Jerry Pate; Steve Mona, GCSAA chief operating officer; USGA President Reg Murphy, and noted turf breeders Drs. Milton Engelke of Texas A&M University and Terry Riordan of the University of Nebraska.

Dr. Engelke will discuss release of his two new 1993 heat-tolerant Crenshaw and Cato bentgrasses for the South. Riordan will explain his three new buffalograsses now available for use as rough turf.

Attorney Michael Veron will update attendees on golf course liability issues. Communications expert Garland Robinette will give examples of how several golf courses have used a media relations program. Tim Long of Barton Creek will discuss environmental issues. And Patrick O'Brien of the USGA Green Section will update Green Section services.

West

CAL POLY CONFERENCE READIED

POMONA, Calif. — The 35th annual Turfgrass, Landscape and Sports Turf Institute will be held at California Polytechnic Institute, March 22-23.

Dr. James Beard, formerly of Texas A&M University, will discuss managing turfgrass to avoid sports injuries; turfgrass weeds and their control; environmental influences on plant health; and an overview of sports turf in the United States.

A special opening-day seminar will focus on risk management and avoiding lawsuits and insurance claims. Using green industry case studies, Dr. Ted Stamen and his partner, a horticulture attorney, will discuss how to avoid lawsuits.

Insurance authority Karen Terry will present workmen's compensation reform and business insurance issues.

Principles of turf and irrigation management will be offered in separate English and Spanish sessions. Many presentations will have simultaneous Spanish translations.

Other seminars include precision irrigation scheduling, tree management for the 1990s, pest management and environmental influences on plant health.

North Central

FIERST ELECTED MIDWEST PRESIDENT

Alan T. Fierst of Oak Park Country Club in Elmwood Park is the new president of Illinois' Midwest Association of Golf Course Superintendents.

Elected at the annual meeting, Fierst heads a slate of officers that includes Vice President Joel V. Purpur of River Forest Golf Club in Elmhurst, and Secretary/

Treasurer Donald A. Cross of Skokie Country Club in Glencoe.

Directors are Kerry D. Blatteau of Oak Grove Hills in Oak Brook; David O. Blomquist of Naperville Country Club in Wheaton; Edward G. Braunsky of Geneva Golf Club in Batavi.

Also, Kevin W. Czerkies of Sportsman's Country Club in Mundelein; Donald S. Ferreri of Seven Bridges Golf Club in Woodbridge; and Robert J. Maibusch of Hinsdale Golf Club in Clarendon Hills.

Timothy Kelly of Village Links of Glen Ellyn is president

emeritus.

The Midwest association honored Raymond M. Schmitz of Flossmoor Country Club in Frankfort and Mike Bavier of Inverness Country Club in Palatine for their long service as past presidents and board members. Both completed terms on the board.

Mountains

MCGINNIS BENEVOLENT FUND

The Cactus & Pine Golf Course Superintendents Association has established a benevolent fund to help the Paul McGinnis family.

A Cactus & Pine member for two decades and a member of the board of directors of the Golf Course Superintendents Association of America, McGinnis is superintendent at Union Hills Country Club in Phoenix. His daughter, Kari, has been diagnosed with a lymphoma type of cancer. To donate to the fund to help pay medical expenses, people should mail checks, payable to Cactus & Pine, to Helm Drive Corp. Offices, 7418 E. Helm Dr., Suite 227, Scottsdale, Ariz. 85260.

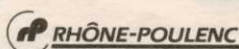


A TURF'S-EYE VIEW OF

What's really frightening about this vision is that every year your turf is seeing more of them. And it's this increased traffic that's making even your hardest varieties more vulnerable to disease damage.

That's where CHIPCO® brand 26019 fungicide comes in. With its unsurpassed

control of Helminthosporium Leaf Spot and Melting Out, Dollar Spot, Brown Patch, Fusarium Blight and Red Thread, CHIPCO® 26019 is simply the best investment you can make to ensure the quality and play-ability of all your turfgrasses. It even protects against



Rhone-Poulenc Ag Company, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. For additional product information, please call 1-800-368-7663.

Superintendents defeat new classifications, elect officers

By PETER BLAIS

DALLAS — Keep the focus on superintendents and the association moving in a new direction were the messages voters delivered at February's Golf Course Superintendents Association of America's annual meeting.

Two measures that would have created new membership classifications for non-superintendents were the only proposed bylaw amendments rejected by GCSAA voters. Thirteen amendments



Gary Grigg

dealing with dues, accountability and other assorted issues were all approved. As for the election of the board of directors, Charles Passios of Hyannisport (Mass.) Club, failed in his effort to reclaim a seat on the board he served from 1990-

92. Voters a year ago turned out then-incumbents Passios and Joseph Hahn of Oak Hill Country Club in



Tommy Witt

Fairport, N.Y., after the two, along with the rest of the board, endorsed placing the controversial proposed bylaw

amendments before the membership. "It was the membership's choice and I can live with that," Passios said. "I guess my ideals didn't fit in with those making the decisions."



Bruce Williams

When asked if his apparent linkage to last year's proposals

was just too much to overcome, Passios replied: "It must have been. I was able to put it in the past and look toward the positives in the future. But we seem to be attached to them for some reason."

"I'm afraid that my qualifications as an individual have been overlooked in all this. I'm not bitter. People asked me before the election if I'd still help the association if I lost. I'd be happy to. You don't give that much to something you love and then just walk away."

Heading the list of newly elected officers and directors was President Joseph Baidy of Acacia Country Club in Lyndhurst, Ohio.

Gary Grigg of Naples (Fla.) National Golf Club bested Bruce Williams of Bob O'Link GC in Highland Park, Ill., in the race for vice president.

Williams was appointed secretary-treasurer.

Incumbents Paul McGinnis of Union Hills Country Club in Sun City, Ariz., and R. Scott Woodhead of Valley View GC in Bozeman, Mont., were re-elected to the board of directors.

Tommy Witt of Bent Tree CC in Dallas was appointed to serve the remaining year of Grigg's term on the board of directors.

Rounding out the board are Immediate Past President Randy Nichols of Cherokee Golf & Country Club in Dunwoody, Ga., Dave Fearis of Blue Hills CC in Kansas City, Mo., and George Renault of Burning Tree Club in Bethesda, Md. All have a year remaining on their terms.

Continued on page 66

Baidy excited about presidency

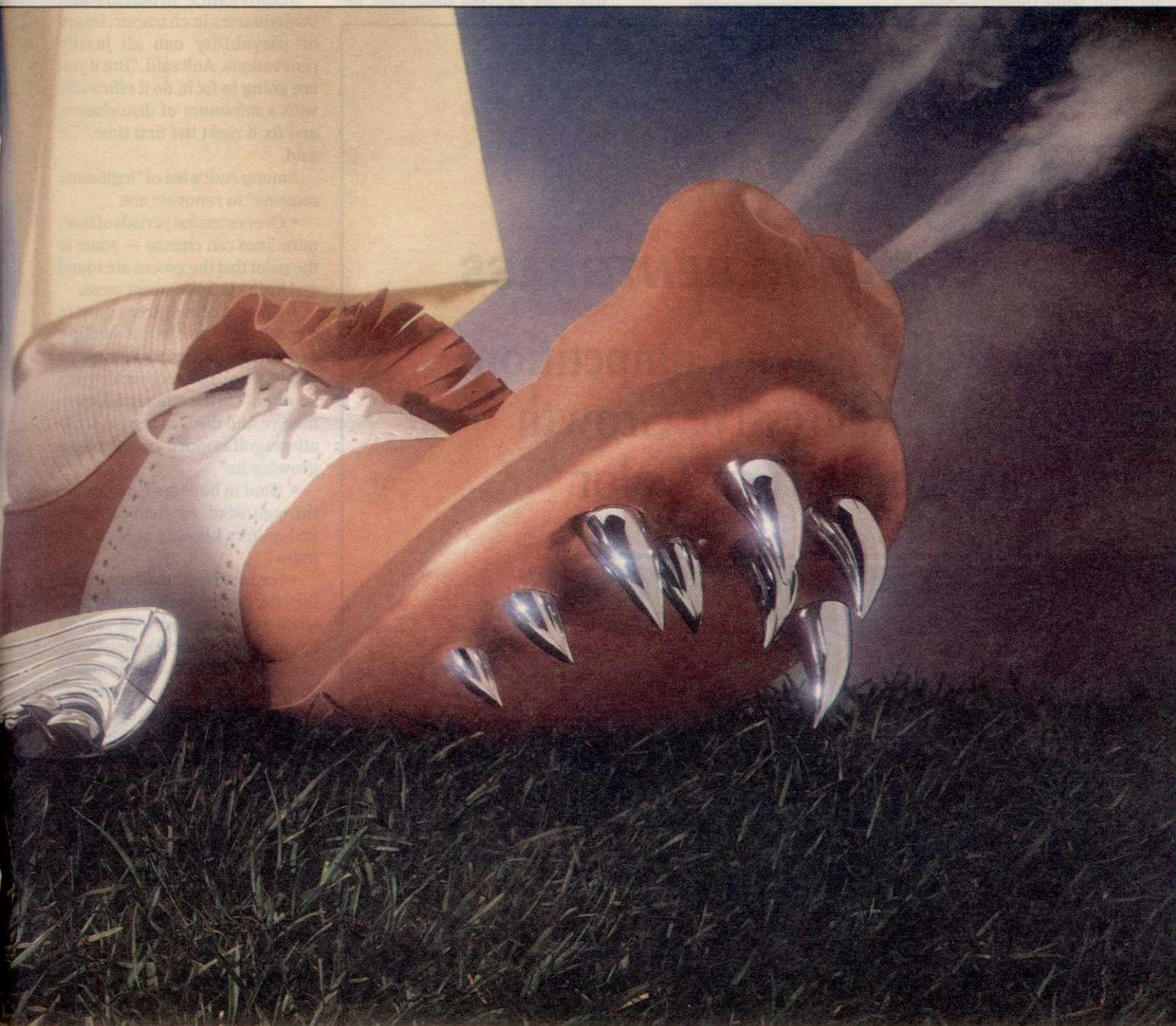
Being handed the presidency by Randy Nichols, Joseph Baidy told the annual banquet audience:



Joseph Baidy

"I am honored to receive this gavel and the responsibility that goes with it. This will be an exciting year for me, representing my peers and a great profession. I pledge to you to continue the open-communication policy set forth last year by Randy Nichols. Randy is to be congratulated for a remarkable year."

"I also pledge to continue to work to strengthen the ties between GCSAA and our allied associations. You have elected an energetic and dedicated board of directors. We have assembled an outstanding management team to work with a highly dedicated staff. Working together with you, we will meet the challenges ahead."



THE AVERAGE GOLFER.

Pink and Gray Snow Mold and Fusarium Patch.

And because CHIPCO® brand 26019 provides long-lasting control, and is registered for use on a wide variety of high-value ornamentals, you can keep more of your course



Chipco® 26019
Fungicide

disease-free all season long.

This year, take the bite out of traffic pressure with the proven disease protection of CHIPCO® brand 26019 fungicide. Available in wettable powder and smooth-pouring flowable formulations.

Make course renovations legitimate, Ault says

By MARK LESLIE

DALLAS — Keeping up with the Joneses by renovating your golf course is a mistake made too often in the golf industry, according to architect Brian Ault.

Speaking at the GCSAA conference, Ault spelled out when to and when not to renovate: "No matter what club you're employed at, public or private, some day renovations to some extent are going to be in your future."

He suggested that "at the

proper time" superintendents should initiate steps to renovation "rather than have the green chairman wake you up and tell you it's time."

A principal in the firm Ault, Clark and Associates in Maryland, Ault said some golf clubs jump too quickly into the mechanics of renovating their courses.

"Because your course is old doesn't automatically mean it's out of style," he said. "On the other hand, some members want

'Some of you are enthusiastic about renovations... For others, it conjures up an image of... additional work — an unwanted jolt to the status quo.'

— Brian Ault

to reinstall some of the older features and return their golf course to that style of yesteryear. You can't arbitrarily say that's the thing to do, either. Placing bunkers where they were originally designed 30, 40, 50 years ago isn't necessarily best. They won't come into play as much as they did originally, and you're liable to end up with a mixed match of old and new."

Meanwhile, many golfers don't like their courses disturbed, he

said, adding that members, especially, are "firm believers in 'If it's not broke, don't fix it.'"

That ambivalence is evident among superintendents as well, Ault said. "Some of you are enthusiastic about renovations. You want to participate, to show off some of your other skills besides growing grass. For others, it conjures up an image of unwanted disruptions and additional work—an unwanted jolt to the status quo."

Maintenance problems and inadequacies in character, image or playability can all justify renovations, Ault said. "But if you are going to fix it, do it efficiently with a minimum of disturbance, and fix it right the first time," he said.

Among Ault's list of "legitimate reasons" to renovate are:

- Over extended periods of time, mow lines can change — some to the point that the greens are round and losing pin placement areas.
- Trees mature. Areas once in a reasonable amount of sunlight and air circulation are now under shade, with roots encroaching and no wind. "On the other hand, trees mature and die. Taking out trees affects golf as much as newer ones growing in."
- Sand in bunkers can migrate through wind, mechanical rakes and golfers blasting shots out of them.
- Some older courses are seeing the effects of increased play where smaller greens and tees can no longer be adequately maintained.
- Courses need to improve speed of play to increase rounds.
- Safety problems are being experienced at some courses. "Tees are too close to greens. Fairways are side by side... Golf courses are being sued all the time. Safety is very, very important to architects. As superintendents, you should also be concerned."

...

"Whether a private or public course, you have to stay competitive. That has a lot to do with improving or ensuring the aesthetics, image and character of your facility are the best they can be," Ault said.

He described the chronology of the renovation process:

- Identify the problem, categorize it, understand its cause and your objectives.
- Analyze it and perhaps prepare a report with support information. "You have to go up the chain of command and sell your need. That takes materials like photographs, a soils report, a check by a USGA agronomist."
- You and club members must decide if the problems need a one-time fix. "Or, if you're having a series of similar problems, you must recognize consistency in fixing these problems is required."
- Hire an architect who submits a proposal of services and fees to

Continued on next page

Southshore CREEPING BENTGRASS

Outperforming Some Well-Known Competition
with its Dense, Upright, Aggressive Growth
and Attractive, Medium-Bright Color



Over \$100,000 in scholarships already presented to Rutgers University turfgrass students



Lofts Seed Inc.

World's largest marketer of turfgrass seed

Bound Brook, NJ 08805

(908) 356-8700 • (800) 526-3890

Lofts/New England
Arlington, MA
(617) 648-7550
(800) 648-7333

Lofts/Maryland
Beltsville, MD
(301) 937-9292
(800) 732-3332

Lofts/Great Western
Albany, OR
(503) 928-3100
(800) 547-4063

Sunbelt Seeds, Inc.
Norcross, GA
(404) 448-9932
(800) 522-7333

Lofts/Ohio
Wilmington, OH
(513) 382-1127
(800) 328-1127

To locate the Lofts' distributor nearest you, call (800) 526-3890 (Eastern US) • (800) 547-4063 (Western US)

Course renovations sometimes unnecessary

Continued from previous page

handle your problems. He will also bring a level of consistency to the renovations.

- Inform membership about the plans.

- The architect meets with a team. "We want to discuss the problem with you for maintenance- and design-type problems, and with the pro from the standpoint of playability. Typically, a club member is also involved."

- Perform thorough site reviews.

- The conceptual design phase begins here: Analyze each problem or concern and formulate recommended design solutions.

- Cost estimates. "It's here superintendents must decide the extent of their involvement. Can you operate a back hoe? Are you willing to operate a back hoe? Are you willing to provide materials, to lay sod or sand in the bunkers. Or, as many superintendents do, feel it is above and beyond, especially because the project will take place at a critical time of the year for them. Their budget and manpower is not sufficient."

"Again, sell it up through the chain of command. The architect needs to sell it. He has concept plans. He knows what will be rebuilt. He knows how much the club and contractor are going to do, how much it will cost, how long it will take."

- Once budgeted, the project goes to construction.

"Plan ahead and don't rush into anything hastily or for the wrong reasons," Ault warned. "Most all the time, a professional golf course architect should be selected. Don't play architect. Don't overstep your limits. If for no other reason, you should bring in an architect to take the burden of responsibility off your shoulders."

At the same time, he said: "This isn't brain surgery. We don't have to over-engineer it."

The more a superintendent contributes to assuring the proper criteria are met, Ault said, "the more of a professional and valued asset you will be to your employer."

Made from bullet-proof Lexan® plastic.

Printed with UV stabilized ink that resists fading.

Subtle or loud colors: white on green or black on yellow.

Impact-resistant, solid PVC plastic stakes: 16" long.

The ideal size for maximum visibility: 6"x 11".

A wide selection of pertinent, concise messages.

No nuts. No bolts. No tools required.

High-performance industrial bonding adhesive.

Tell 'em Where to Go and What to Do . . . Politely.

Do you want signs players will pay attention to? Signs that are:

- Virtually indestructible with easy-to-install stakes?
- Color-fast and fade-resistant?
- Contemporary and easy to read at a distance?

Well, you're looking at them. And the best news is they're from a company whose reputation for quality is unsurpassed, Par Aide.

Like all our products, these signs are built to meet the challenges of your course. They're a one-time investment that's almost like hiring a crew of Traffic Directors; the strong, silent type . . . and they'll report for duty within 48 hours. Just talk to your local Par Aide dealer.

For the name of the dealer nearest you, simply give us a call at 612-779-9851.



Par Aide Products Company • 3565 Hoffman Rd. East • St. Paul, MN 55110 • 612-779-9851

CIRCLE #130

MELEXCEPTIONAL

What You Expect Your Golf Car To Be.
What Every Melex Golf Car Is.

We've been building golf cars for 20 years. Always improving, always seeking a better, more dependable design. Let us impress you. Call 1-800-334-8665 to find a dealer near you. Melex USA, Inc.



MELEX
GOLF CARS

Golf's Most Dependable Drive

GCSAA's mortality study raises eyebrows and concerns

Continued from page 1

"In light of this study and other health-effect research about pesticides, a prudent strategy for golf course superintendents and their workers is to minimize their exposure to pesticides."

Allen James, executive director of RISE (Responsible Industry for a Sound Environment) — a trade association comprising manufacturers, formulators and distributors of specialty pesticide products —

echoed these sentiments.

"The researchers themselves have not determined cause-and-effect relationships for these results," James said. "Our members are concerned about any person impacted by cancer. While there is no proven link between health issues and practices used to control pests on our nation's golf courses, RISE members endorse research aimed at solutions for health concerns."

In addition to a higher-than-

average rate of mortality from lung cancer, Iowa researchers found above-normal incidence of other cancers, including brain, non-Hodgkin's lymphoma, pancreatic and prostate.

Release of the study has kicked off phase two of the association's exploration of occupational health issues. This will include helping association members to stop smoking, expanding GCSAA's current education and training programs, and completing a

statistical mortality ratio study to put UI's preliminary data into context, according to Steve Mona, the association's new executive director/chief executive officer.

"GCSAA initiated and financed this study because we needed to establish a baseline for future research," Mona explained. "We now have that baseline and can better identify what merits future investigation... This is a long-term commitment to ensuring that superintendents work in a safe

and healthy environment.

"We also think this gives us an opportunity to forge new partnerships... For example, the chemical manufacturers have made great strides in packaging and formulation over the past decade. This is one more reason to work closely with them in their efforts to develop new technology in products and packaging."

As Mona noted, the chemical industry has made a concerted effort to improve labeling and foster more complete applicator training over the last two decades. Those death certificates gathered for GCSAA members who died between 1970 and 1992 represent superintendents who practiced their trade in the 1940s, '50s and '60s, when exposure safety measures were not such a priority.

Further, James noted that pesticides "have undergone an average of eight to 10 years of stringent health and safety tests before being considered for registration by the EPA. Such products are used safely when applied according to label-use directions."

According to Kross, previous studies of farmers, pesticide applicators and agricultural workers have suggested that an elevated risk for non-Hodgkin's lymphoma and leukemia among farmers may be associated with exposure to pesticides and other agricultural chemicals.

However, Kross warned against forming any premature conclusions about superintendents.

"I could say — and I do say — that superintendents die more frequently from lung cancer than the public at large," said Kross. "But we should not — we cannot — establish a causal relationship between cancer and pesticide application or exposure."

"It is also important to stress that these results cannot be interpreted to mean that golfers are at risk."

Kross and the researchers made several recommendations to the audience at the Dallas convention:

- Support smoking cessation programs and control exposure to secondary smoke by designating no-smoking areas (the GCSAA trade show floor was smoke-free for the first time in Dallas).
- Minimize exposure to pesticides by carefully following application label directions and using protective clothing.
- Further investigate the relationship between prolonged pesticide exposure and the development of non-Hodgkin's lymphoma.
- Expand existing programs in pesticide application and training.

Kross said his team of researchers plans to publish the study in peer review journals, plus a future issue of *Golf Course Management*. They will also make further presentations at regional superintendent meetings.

*An Ounce
Of Prevention
Is Worth A Pound
Of Cure.*

DO YOU SUPPOSE HE WAS THINKING OF AN EFFECTIVE CURE FOR DOLLAR SPOT?

In turf, as in life, once a disease has set in it becomes harder and more costly to cure.

So it's no wonder that in the constant war against dollar spot, turf specialists everywhere are turning to Banner® as a weapon of unparalleled efficiency.

For a start, it's the best product available. Not only is it superior in prevention than any



fungicide, it also provides longer residual than any other systemic. While giving added protection against eleven other major diseases.

Which means turf stays healthier longer, and you get consistently beautiful results.

And should anyone want to know how you did it, just tell them you took the advice of an expert.

'Old Tom' winner

Nelson: Course care improvements have surpassed equipment

By MARK LESLIE

DALLAS—Saying the greatest improvement in golf today is not in equipment but in the condition of the courses, golfing legend Byron Nelson accepted the Golf Course Superintendents Association of America's (GCSAA) most prestigious honor, the Old Tom Morris Award.

Nelson was revered at the GCSAA's annual banquet as "setting a legacy that will never be equaled."

Presenting the award, outgoing GCSAA President Randy Nichols recounted Nelson's unparalleled playing career that included 11 consecutive victories at one point.

A caddy who "graduated" to mowing greens as a teen-ager, Nelson said, "I've had a great respect for superintendents all my life."

In his younger days, he said, "We didn't have any verticut machines. We didn't have any aerators. We just had plain old common Bermudagrass."

"You [superintendents] have made so many great strides in the way you've developed turf management, it's unbelievable."

Nelson focused on greens, saying, "You've even changed the way we putt." He recounted that his first putter had loft on it because "the grain was so bad you had to get the ball up" to get a roll.

Of the Old Tom Morris Award, given for outstanding contributions to the game of golf, Nelson said, "I'm honored beyond description to receive it."

'You [superintendents] have made so many great strides in the way you've developed turf management, it's unbelievable.'

— Byron Nelson

Fast first aid for your tees.

Controlling divots on par 3 tees has always been tough business — especially when players have to walk from the tee to the bucket and back again. That's why our new Seed & Soil Caddie takes the best ideas in divot repair and places them all at your players' fingertips, right next to the tee markers! ♦ To keep the rain

out, we curved the spout. To make it easier to fill, we turned the entire bottom into a screw-off cap. To keep it close to potential divots, we made it as easy to move and position as the tee markers it's designed to

sit next to. And to remind players to use it, we even included a friendly reminder decal. ♦ Like all Standard Golf products, our new Seed & Soil Caddie is designed to last for years of trouble-free use. The integral steel spike is precision-welded for extra strength, and the large capacity

reservoir holds plenty of seed and soil. ♦ Our new Seed & Soil Caddie makes it easier for players to keep tee areas healthy! Contact your nearby Standard Golf distributor and ask about our Seed & Soil Caddie. It's good medicine for your tees!



STANDARD GOLF ProLine

Standard Golf Company
P.O. Box 68
Cedar Falls, Iowa 50613 U.S.A.
319-266-2638
FAX 319-266-9627

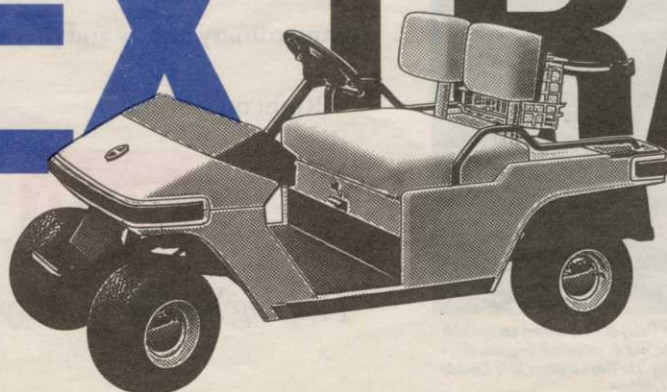
SG-181

CIRCLE #133

MELEXTRA

It's The Added Value In Every Melex Golf Car.

And it simply means more for your money. Call 1-800-334-8665 to find a dealer near you. Melex USA, Inc.



MELEX
GOLF CARS

Golf's Most Dependable Drive

Show floor agog with new technologies in turfgrass care

By HAL PHILLIPS

DALLAS—Tradeshows are meant to generate consumer interest which, in turn, generates... well, trade. And nothing generates consumer interest like a new product.

The annual International Golf Course Conference and Show is the current venue of choice when it comes to launching a new product. A plethora of innovations made their debut in Dallas this year, but only a

handful made a stir.

For those who couldn't be in Dallas, a few of these "show-stoppers" are detailed below:

- The Ransomes E-Plex electric greens mower: This product and the competing Jake model (see below) dominated many a show floor conversation. The E-Plex sports a 48-volt industrial electric motor, powered by eight, six-volt, 244 AH golf cart-style batteries. While it stays charged for up to three hours, the quiet electric

motor drew equal oohs and ahhs. Superintendents tending to development courses are well familiar with cranky homeowners complaining about early-morning greens mowing. Ransomes officials said the E-Plex should be available by this summer (see related story).

- The Jacobsen electric Greensking: Though still a prototype, Jake's electric product was the subject of similar discussion. "We have been

working on and off for quite some time on alternative power sources," explained Eric Smitsdorff, vice president of marketing at Jacobsen. "This prototype was shown at the Dallas show to solicit input on where we should be going. We had hundreds and hundreds of superintendents take our survey and offer their ideas. We received some fantastic suggestions."

- The E-Z-GO Medalist Electric: As the only new golf car

introduced in Dallas, the Medalist—in one sense—had the stage all to itself. Completely redesigned inside and out, the Medalist even sports the new-fangled DuraShield powder coat paint process, which involves electronically charging the surface before painting it. Other newly designed aspects include the steering system, accelerator pedal and the PowerWise solid stage energy control (increased

Continued on page 38

Once you order our parts,
we're on your schedule.

That's because we know you can't afford to wait forever. So, in those rare cases when you can't get parts immediately from your Toro distributor, our Parts Delivery System offers three ways to meet your schedule.

Besides *Normal Direct Ship*, our new



24 Hour Fast Track

guarantees delivery in a day,* or your parts

are free. And *Direct Today 48 Hour* means reliable arrival in two days.*

Toro Parts Delivery. Another way we help turf care professionals create extraordinary beauty and playability.

Right on schedule.



Helping You Put Quality Into Play.™

Electric mowers said to take golf industry to grand new era

By PETER BLAIS

"A quantum leap in technology that will change the industry for years to come," is how Ransomes America Corp.'s Doug McCormick described what his company is touting as the industry's first all-electric triplex greens mower.

While such hype is to be expected from a vice president of sales and marketing, superintendents seemed generally impressed with the potential of the E-Plex, unveiled at last month's International Conference and Show in Dallas and available for purchase by late summer.

"Not having to worry about homeowners complaining concerning noise if you start mowing at 4 a.m. would remove one of my major headaches," said Pat Lucas, superintendent at Innis Arden Golf Club in Old Greenwich, Conn.

Quieter operation is one of the riding mower's major selling points. The lack of fuel emissions should be another, especially in California, where the company anticipates E-Plex will meet all future state Air Resources Board and federal Environmental Protection Agency standards.

Its minimal maintenance requirements and pollution-free operation are additional benefits.

"Because it doesn't use gasoline or diesel fuel, that means no hydraulic oil leaks," said Turf Products Manager Peter Whurr. "Superintendents have gotten fired because of oil leaks on their greens."

Eight 6-volt, golf cart-style batteries power the E-Plex. The mower can operate for three hours on a single charge, long enough to do nine to 18 greens depending on terrain, temperature and distance between holes, Whurr said.

Oil and gas savings mean the batteries pay for themselves within 175 days, he added. A superintendent can expect to get between one and two years of use from a battery.

Jacobsen is reportedly working on a riding greens mower that could be available within two years.

*For full program details, contact your local Toro distributor. 24 Hour Fast Track and Direct Today 48 Hour delivery are available in the 48 contiguous states and cover only parts supported by The Toro Company, Minneapolis, and do not include irrigation or certain engine parts. Program subject to carrier delivery restrictions. ©1993 The Toro Company. The Toro Company, 8111 Lyndale Avenue South, Minneapolis, Minnesota 55420. "Toro" is a registered trademark of The Toro Company.

Spring is the best time to prevent summer dry spot.

You've probably seen those irregular areas of turfgrass that show signs of drought stress. Localized Dry Spot (LDS)—with its characteristic wilting and turf death—usually shows up at the height of the golf season. But the best time to control the problem is in the spring.

LDS is characterized by an

irregular area of turfgrass that for no apparent reason begins to show signs of drought stress. The condition is most prevalent on sandy bentgrass greens, but it can also occur on fairways. Infrequent or reduced watering of golf greens increases the problem, but the symptoms may occur right after irrigation.

According to another Michigan State University study, it is now thought that these dry spots are the result of hydrophobic soil where a non-wettable organic coating of sand particles causes soil to repel water instead of absorbing it.

Once soil moisture levels decrease in hydrophobic

soils, rewetting the soil can become very difficult. The condition has been compared to normally absorbent peat shedding water when it is totally dry.

By applying wetting agents to the soil in the spring, you can increase the soil's ability to absorb and hold water—and prevent it from drying

out. Whether the summer is wet or dry, applying a wetting agent in the spring can promote better utilization of water.

For more information circle the number below, or call Kalo, Inc., toll-free: 1-800-255-5196.

CIRCLE #198

"Staying power" is the key to early application of wetting agents.

Pre-season application of a wetting agent can only deliver benefits in mid-summer if the wetting agent has the residual activity to stay on the job. One product that has been very successful in early application is Hydro-Wet® RTA.

In one Michigan State University trial, soil moisture and turfgrass quality were measured 14 months after application of two leading wetting agents. The quality of the Hydro-Wet treated turf was significantly better and soil moisture was 23% greater.

Since this test, Kalo has developed New Hydro-Wet Advanced Formula RTA which makes it even more effective in improving soil infiltration.

For more information circle the number below, or call Kalo, Inc., toll-free: 1-800-255-5196.

CIRCLE #195

Accurate application ensures optimum results.

Applying too little wetting agent can be as wasteful as applying too much. For best results, many golf course superintendents prefer using an advance metering system like the WaterWorks™ Injection System.

The WaterWorks Injection System is available in two models—Manual and Automatic proportional. Both make accurate, automatic applications of wetting agents as simple as a push of a button.

Using the Manual System requires setting the application meter to flow at a maximum of 2.5 gph to a fraction of that volume. Then, it automatically turns off and on at pre-set times. The pump features an anti-siphon valve to protect the wetting agent supply. It is all

American crafted using high-quality hardware for long life.

For even greater control, the Manual WaterWorks is upgradeable at any time to get the benefits of proportional automatic metering. By adding a flow sensor and scaling controller, the system senses and responds to changes in the water flow rate. So it starts when irrigation starts, stops when irrigation stops, and automatically adjusts with flow rate changes to ensure consistent ppm application at all times.

By combining the staying power of Hydro-Wet with the accuracy of WaterWorks, golf course superintendents have a labor-free method of applying Hydro-Wet.

For more information circle the number below, or call Kalo, Inc., toll-free: 1-800-255-5196.

CIRCLE #196

Receive a FREE WaterWorks System with Hydro-Wet® Advanced Formula RTA.

Early application of a wetting agent makes more sense than ever. Because Kalo is offering special pre-season discounts on WaterWorks with every qualifying purchase of New Hydro-Wet Advanced Formula RTA.

For example, when you purchase 165 gallons of Hydro-Wet RTA, you can buy a WaterWorks Manual Injector system for 1/2 price. Or, buy 275 gallons and receive this high-quality WaterWorks System FREE—a value of nearly \$1,200!

Start improving the beauty of your course now. For details on this special offer, contact your Kalo distributor. If you don't know your distributor, or have immediate questions, call the number below.

For more information circle the number below, or call Kalo, Inc., toll-free: 1-800-255-5196.

CIRCLE #197

Now Is The Time To Prevent Summer Dry Spot.

Call 1-800-255-5196

for 15% pre-season savings* on all formulations of Hydro-Wet.

Hydro-Wet®

Soil And Turf Wetting Agents



KALO

Kalo, Inc. 4550 W. 109th Street Overland Park, KS 66211

*1994 Commercial Price List. At participating distributors only.

Offer Expires April 30, 1994

CIRCLE #199

U.S. Golf Association may move museum

DALLAS —The buzz here was that the Executive Committee of The U.S. Golf Association has decided to begin exploratory talks that could result in moving its golf museum from its current site in Far Hills, N.J.

The committee voted at its annual meeting to explore several locations, including Colorado Springs, Colo.; Monterey, Calif.; and Newport, R.I.

Approximately 20,000 people visit the museum annually, leading the Committee to say its historic collection of golf artifacts deserves a wider audience than it has had in Far Hills. The committee stressed, however, that the USGA headquarters will continue to be located in Far Hills.

The panel is not entertaining invitations from additional sites.



Ken May photo

Alice Dye accepts the Donald Rossi Humanitarian Award from son Perry, while Golf Course Builders Association of America outgoing President Jerry Pierman applauds.

Alice O. Dye 'broke mold' in male-dominated field of design

By MARK LESLIE

DALLAS — Hailed as an icon of golf, Alice O'Neal Dye was presented the Golf Course Builders Association of America's Donald A. Rossi Humanitarian Award during the GCBAA's annual banquet here.

Attesting to Dye's influence in pressuring course designers to add forward tees, Dick Nugent of the American Society of Golf Course Architects (ASGCA) said many layouts were not suitable for women golfers "in what I call the pre-Alice Dye Era."

But her tireless work in espousing forward tees has led the entire industry in that direction, he said, adding: "On behalf of the ASGCA, I salute you for honoring Alice Dye. You have chosen a winner and a champion."

"My mom's an icon of golf," said son Perry O. Dye, a worldwide course builder and architect. "In a male-oriented game, we've had to learn to pay attention to those women who were paying for it... Her major desire for golf course architects is to design courses for all levels of play."

His mother, Perry said, "broke the mold" of the all-male world of course architecture.

And, as a mother, "she was always pushing in the right direction and with the right intentions," he added.

The PGA also cited Dye's work at the awards presentation, telling her: "Generations of golf to come will treasure your lifelong contributions to golf."

Dye, who has worked with her husband Pete in designing golf courses for three decades and whose younger son P.B. is also an architect, said, "I'm especially delighted to be honored by the Builders Association because it was the construction end that gave us our first start in golf course building."

The first woman member of the ASGCA, Dye is also an accomplished golfer. The captain of the 1992 U.S. Women's World Team, she played on the victorious 1970 Curtis Cup team and was named Florida Senior Women's Golf of the Year five years in a row.

She holds 10 Indiana Junior Championships, 12 state amateur titles, two U.S. Golf Associations Women's Senior Championships, two Canadian Women's Senior Championships, five Women's Western Senior Championships, the North-South Amateur, Doherty and Eastern championships and numerous other titles.

Over the years she has taught golf to thousands of youths.

THE GLEANER: a core plug pusher



MODEL JP

SPECIFICATIONS

1. Two section blade will follow the contour of any golf green or tee.
2. Three-inch foot pad coming off blade helps catch and push plugs off greens and tees.
3. Unit will not damage green because of articulation of blades and foot pad area on bottom.
4. Blade width is 72 inches.
5. All heavy gauge metal.
6. Weight is 70 pounds.

SAVES TIME, LABOR & MONEY!

1. Go from a 4-man to a 2-man operation; one riding the mower with the plug-pusher, the other picking up plugs IN HALF THE TIME!
2. Easy to mount and dismount from your greensmower.
3. Buy one and keep it 'til you retire.
4. Savings in time and labor will pay for your new plug pusher WITH ONE AERATION!

★ You can remove the plugs from a 7,500 sq. ft. green in about 20 minutes.

★ There is no other product on the market that can remove the plugs from the green quicker and cleaner than THE GLEANER core-plug pusher.

★ There is no cheaper product in the industry to remove your plugs from the green or tees. One use and it pays for itself!

★ Other core-plug removal equipment might take two hours to install. Model TP installs in five minutes.

★ If your mower breaks down, it only takes 5-7 minutes to be up and mowing again with your backup greensmower!



MODEL TP

CALL YOUR LOCAL TORO DISTRIBUTOR T O D A Y

PHONE OR CONTACT

B.H. SALES

P.O. BOX 3467

SANTA ROSA, CA 95402

(707) 823-2107

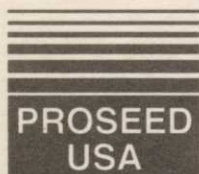
CIRCLE #137

PROSEED EMULSION CONTROL REVEGETATION PRODUCTS

PS100

MULCH BLANKET

Designed to control soil erosion and promote revegetation on level areas and moderate slopes, the PS100 is a 50 square yard mulch blanket made from natural plant fibers with a non-toxic adhesive binder.



PROSEED USA Inc.
P. O. Box 1250
San Marcos, TX 78667

ADVANTAGES:

- Environmentally sensitive - 100% Biodegradable!
- NO PLASTIC NETTING to bind mowers or remain in the environment.
- Excellent erosion control on level areas to moderate slopes.
- Enhances and protects germination of seeds and plant growth.
- Increases retention of moisture reducing irrigation requirements.
- Reduces the erosive effects of wind and water.
- Easy installation; just roll out and stake down.
- Easily cut for interplanting with plants or trees.
- Reduces labor and equipment cost.



APPLICATIONS:

- Golf Course development and renovation.
- Median, curb and roadside construction.
- Park and Recreation maintenance.
- Sports Turf establishment and renovation.
- Cemetery management.
- Lawn establishment in new home construction.
- Landscape projects.



PS200

SEEDED MULCH BLANKET

An excellent sod alternative, the PS200 is designed to provide an easy and effective way to establish grass or incorporate wildflowers into the landscape. The PS200 comes pre-seeded with common Bermuda, rye or Fescue grass or can be seeded with a special mixture of 18 varieties of annual and perennial wildflowers. Custom seeding orders available on orders of 20 rolls or more. Available in 50 square yard size.

CALL 1-800-243-0105 FOR FREE INFORMATION PACKET!

CIRCLE #138

Kirchdorfer takes reins of GCBAA from Pierman

DALLAS — James J. Kirchdorfer, president of Irrigation Supply Co. of Louisville, Ky., assumed the presidency of the Golf Course Builders Association of America, succeeding Jerry Pierman of Pierman Golf Co.

Handing Kirchdorfer the gavel, Pierman said: "If you are as fortunate as I have been to get the support and cooperation of this group, the association will go straight up."

Kirchdorfer thanked Pierman for his stewardship of the association and evaluated it as being "in pretty good shape."

...

Eleven builders, along with GCBAA Executive Vice President Phil Arnold and nine associates, will comprise the 1994 board of directors.

Builders are Larry Brown of Atlantic Golf Construction; Dave Canavan of Moore Golf; Paul Clute of Clute & Associates; Paul Eldredge of Wadsworth Golf Construction; Gene Giannulli of Environmental Golf; Jeff Harstine of Central Florida Turf; Bill Kubly of Landscapes Unlimited; John McDonald of McDonald and Sons; O'Brien McGarey of Dye Designs International.

Also, Jerry Pierman of Pierman Golf Company; and Tom Sasser of Paragon Golf Construction.

Outgoing GCSAA President Nichols Georgia's best

AUGUSTA, Ga. — The immediate past president of the Golf Course Superintendents Association of America has been named 1993 Georgia Superintendent of the Year.

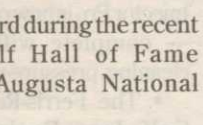
Randy Nichols, superintendent at Cherokee Town & Country Club in Dunwoody the past 19 years, received the award during the recent Georgia Golf Hall of Fame banquet at Augusta National Golf Club.

Nichols has been involved in golf course development and management 25 years.

A 1969 graduate of Mississippi State University, his early career included a stint in golf course construction.

President of the Georgia Golf Course Superintendents Association in 1985 and 1986, Nichols was a GCSAA board of directors member for seven years.

Randy Nichols



Associates elected were Rick Elyea of O.M. Scott & Sons; Christine Faulks of Greensmix; Jeff Gredvig of John Deere Co.; Doyle Jacklin of Jacklin Seed; Dwight Johnson of ADS; Jim Kirchdorfer of ISCO; Rod McWhirter of Rain Bird; Dave Truttmann of Truttmann & Assoc.; and Bud White of LESCO.

Ken May photo



BUILDER OF THE YEAR

Bill Kubly, left, president of Landscapes Unlimited in Lincoln, Neb., receives the 1993 Builder of the Year Award from Golf Course News Publisher Charles von Brecht. The award was presented during the annual banquet of the Golf Course Builders Association of America, whose executive vice president, Phil Arnold, looks on.

GCSAA
Wrap-up

Introducing the First Complete Line of Potassium Nitrate-Based Turf Products.

Supported by Research

You've read the studies. A desirable ratio of potassium and nitrogen makes stronger turf requiring less maintenance. You know this is a higher ratio of potassium to nitrogen than you're applying now.

Controlled-Release: the Key

But what choice have you had? Controlled-release materials are the basis of advanced turfgrass fertility programs. And until now, controlled-release potassium nitrate has not been available.

Now K-Power's MultiCote® controlled-release coating allows you to apply the benefits of potassium nitrate-based fertilization across your entire program: Greens Grade, Fairways, even Combination products.

K-Power® Builds Stronger Turf



K-Power's potassium helps turf plants better regulate water levels in their tissue and increase cell wall thickness. The plant is better able to resist temperature and drought stress as well as fungus and insect attacks. Without costly chemical treatments.

A COMPLETE LINE OF POTASSIUM NITRATE-BASED PROFESSIONAL TURF PRODUCTS



Stiffer leaves support the golf ball for better shot-making. Even if you mow a little higher. Clippings are reduced because K-Power's desirable ratio of potassium to nitrogen reduces the rate of leaf growth.

And the low salt index of chlorine-free K-Power potassium nitrate makes it one of the safest turf fertilizers available.

Unique Formulas

The Greens Grade line includes the only ammoniated homogenous products that combine the benefits of methylene urea and potassium nitrate.

The Fairway Blends provide a unique 50/50 ratio of controlled-release nitrogen to controlled-release potassium. For the growth and green-up you need. When you need it.

Trial Programs

Contact your distributor for more information on K-Power and the world's most perfect trial program. Or call us at 1-800-227-2798.



A TRI COMPANY

©1993 Vicki's Chemical
K-Power, MultiCote and the Sergeant K character are registered trademarks of Vicki's Chemical.

(It's about time.)

Georgia walks away with team title

Virginia's ex-pro Bob Friend captures GCSAA golf crown

By VERN PUTNEY

AUSTIN, Texas — Bob Friend hugged fairway, green and par over two local courses and 36 holes to win the two-day annual Golf Course Superintendents Association of America championship in his first try.

The superintendent at River's Bend Golf Course in Richmond, Va., had 73-73 rounds at par-71 Barton Creek Crenshaw/Coore

Golf Course and par-72 Austin Country Club, the second-day site for the front-runners.

Friend, 37, a former professional who regained amateur status in 1989, battled the elements — wind, rain, sleet and snow — to post a three-stroke bulge on Randy Waldron of The Golf Club of Georgia in Alpharetta, and Doug Browne of Stephen F. Austin Country Club in San Felipe,

Texas. Waldron posted 79-70 and Browne 75-74 for their 149s.

A shot behind Waldron and Browne were first-day leader and three-time champion Roger Null, vice president and general manager at Boone Valley Golf Club, Augusta, Mo., and Jim Dusch of Atlanta National Golf Club, Alpharetta, Ga.

The Georgian entry — Dusch, Waldron, Michael Wilson of

Cannongate On White Oak in Newnan, and GCSAA immediate past president Randy Nichols of Cherokee Town & Country Club in Dunwoody — easily captured the chapter team competition. They combined for 248 points in winning their second title in three years. Waldron's second-day 70 was the tourney's low 18-hole score.

The Midwest AGCS #4 four-

some of Robert Kronn, Al Pondel, Tommy Robinson and Randy Wahler totaled 225.

Wilson shared individual sixth place at 153 with Cole McInnis of Willow Point Golf & Country Club in Alexander City, Ala.

•••

Early the second day, Null seemed on the verge of winning the tournament with an assist from

Continued on next page

With All The Abuse Your Turf Takes, Who Needs Root Pruning?



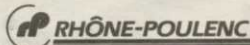
You know the story. The guys who swing an iron the way a lumberjack wields an ax are the same guys who yell the loudest when weeds give them a bad lie. So, with all the abuse your turf takes, the last thing you need is root-pruning from your herbicide. That's why you need CHIPCO® RONSTAR® brand G herbicide. University root pull studies show that CHIPCO® RONSTAR® G works without pruning turf roots. That means healthier roots and stronger, more durable turf. Best of all, just one pre-emergence application provides season-long control of 25 tough broadleaf and grassy

weeds—including goosegrass, crabgrass and Poa Annua. You'll also appreciate the fact that CHIPCO® RONSTAR® G is labeled for use on a wide variety of ornamentals, and is now available in a new low-dust formulation that makes application even more convenient. CHIPCO® RONSTAR® brand G herbicide. It can't improve the quality of play on your course, just the quality of weed control.



New Low-Dust Formulation
Chipco® Ronstar® G

Brand Herbicide



Rhone-Poulenc Ag Company, 2 T.W. Alexander Drive, Research Triangle Park, NC 27709. For additional product information, please call: 1-800-334-9745. As with any crop protection chemical, always read and follow instructions on the label. CHIPCO and RONSTAR are registered trademarks of Rhone-Poulenc. ©1991 Rhone-Poulenc Ag Company.

CIRCLE #140

New technologies

Continued from page 34

to 300 amps). Further, the key switch has been placed on a new one-piece dashboard.

- The Melex composite rim: It wasn't necessarily a free-standing product, but Melex's new plastic golf car rim — manufactured by Carlisle — set itself apart. It's lighter, meaning less compaction in turf areas. But the real benefits behind the composite rim, according company spokesmen, are its more precise manufacturing capabilities. Less deviation in production, few leaks. Will the rest of the industry follow? Perhaps we'll know by 1995, in San Francisco.

- Sentinel Turf Fungicide from Sandoz: Fungicides aren't introduced every day — the EPA sees to that. Sentinel spent eight years in testing, not to mention an EPA-approved Experimental Use program on 45 golf courses last year. Not surprisingly, Sandoz — fresh on the heels of its Barricade launch — pulled out all the stops while introducing its first fungicide. Sentinel is designed to combat 14 turf diseases, in water-soluble packaging, and may be tank-mixed with Daconil and Chipco. If small talk on the floor is any indication, superintendents got the message.

- The Toro HC4000 Aerator: There was a time when Toro wasn't known for its aeration. Those days are gone. Smaller than the fairway job and bigger than a greens aerator, the HC4000 is the mid-sized model, designed to allow aeration in more confined areas, like greens and tees, while still handling nearly an acre per hour. In addition to the HC4000, Toro announced the true availability of its Injector Pro do-it-all spray apparatus. Introduced in Anaheim last year as a sort of tease, the Injector Pro is now ready for delivery — complete with a new self-cleaning, pressure-washing system.

- The Ferris-Reel from Ferris Golf, Inc.: Equipped with the European chevron (V-shaped) blade, the Ferris-Reel bills itself as self-adjusting and self-sharpening. Basically, the bed knife is spring-loaded so that uniform pressure is maintained between it and the reel. Wilmington (Del.) Country Club Superintendent Paul Latshaw has given the product his stamp of approval, and other supers voiced their interest.

The best of GCSAA's best on links

TOP TEN FINISHERS — CHAMPIONSHIP FLIGHT

Robert Friend, River's Bend Golf Course, Chester, Va. 73-73—146
Randy Waldron, The Golf Club of Georgia, Alpharetta 79-70—149
Doug Browne, Stephen F. Austin CC, San Felipe, Texas 75-74—149
Jim Dusch, Atlanta National Golf Club, Alpharetta, Ga. 77-73—150
Roger Null, Boone Valley Golf Club, Augusta, Mo. 72-78—150
Michael Wilson, Cannongate On White Oak, Newnan, Ga. 75-78—153
Cole McInnis, Willow Point G&CC, Alexander City, Ala. 75-78—153
Clint Deeds, Tascosa Country Club, Amarillo, Texas 77-78—155
Al Pondel, Deerfield Golf Club, Deerfield, Ill. 77-78—155
Chandler Masters, Talamore at Pinehurst, Southern Pines, N. C. 75-80—155

FIRST FLIGHT (7-12 Handicap)

Gross Division Points
Michael Garvale, Palo Alto Hills CC, Palo Alto, Calif. 54
John Gallagher III, Racebrook CC, Orange, Conn. 52
Andy Dauskas, Glen Oak CC, Glen Ellyn, Ill. 51

Net Division
Harold Neal, Tulsa CC, Tulsa, Okla. 3
Matthew Linscott, Circle C GC, Austin, Tex. 4
Dale Hahn, Pala Mesa, Resort, Fallbrook, Calif. 6

SECOND FLIGHT (13-18 Handicap)

Gross Division
Michael Jess Pifferini, The Links at Spanish Bay, Pebble Beach, Calif. 47
Paul Dushane, Knollwood CC, West Bloomfield, Mich. 44
Ty Rucker, Horseshoe Bay Resort, Horseshoe Bay, Texas 43

Net Division
Ronald Garrison, The Center Valley Club, Center Valley, Pa. 4
Tye Heidbreder, Twin Oaks CC, Springfield, Mo. 1
Joe Aloni, Westchester CC, Rye, N.Y. 1

THIRD FLIGHT (19-24 Handicap)

Gross Division
Robert Alonzi, Winged Foot CC, Mamaroneck, N.Y. 43
Peter Wilson, Seattle (Wash.) GC, 33

Net Division
Tommy Anderson, Broadmoor GC, Colorado Springs, Colo. 4
Mark Printsky, McGregor Links CC, Saratoga Springs, N.Y. 3

FOURTH FLIGHT (25+ Handicap)

Gross Division
Trevor Oxtoby, Colony Club Gutenhof, Himberg, Austria 25
Bobby Murtaugh, Perry Park CC, Larkspur, Colo. 24

Net Division
Bill Milsap, Old York Road CC, Springhouse, Pa. 6
Roger Stewart Jr., Stonebridge CC, Aurora, Ill. 5

SENIOR I FLIGHT (50-56)

Gross Division
Corey Eastwood, Stockdale CC, Bakersfield, Calif. 56
Kerry Ortmeier, Blacklick Woods Golf Course, Reynoldsburg, Ohio 52

SENIOR II FLIGHT (57-64)

Gross Division
Frank Lamphier, Aspetuck Valley CC, Weston, Conn. 60
Ed Stocke, Santa Rosa G&CC, Calif. 49

Net Division
John Spodnick, Westfield CC, Westfield Center, Ohio 4
James Wyllie, James Wyllie & Assoc., Brampton, Ontario 2

SUPER SENIOR FLIGHT (65+)

Gross Division
Clete Idoux, Retired; Granite City, Ill. 57
James Matteson, Century Oaks GC, Elkton, Mich. 35

Net Division
Robert Pontius, Taylor Meadows, Taylor, Mich. 4
John Petraitis, Crestwood CC, Rehoboth, Mass. 13

AFFILIATE FLIGHT

Gross Division
David Bingham, R. V. Cloud Company, Campbell, Calif. 57
Michael Sommer, Germain's Seeds, Bakersfield, Calif. 55

Net Division
Dale C. Miller, Edina CC, Edina, Mont. 49

James Davis, Hydro-Scape, San Diego, -2

CHAPTER TEAM COMPETITION

Gross Division
Georgia GCSA #1 (248 Points)—Jim Dusch, Randy Nichols, Randy Waldron, Michael Wilson.
Midwest AGCS #4 (225)—Robert Kronn, Al Pondel, Tommy Robinson, Randy Wahler.
Carolinas GCSA (220)—Brad Brooks, Chuck Green, Chandler Masters, Dave Powell.

Net Division
Midwest AGCS #6 (-1)—Robert Maibusch, Les Rutan, Roger Stewart Jr., Bruce Williams.
Rocky Mountain GCSA #1 (-2)—Tommy Anderson, Frederick Law, Bobby Murtaugh, Jack Pendleton.
Metropolitan GCSA #2 (-22)—Joseph Alonzi, Robert Alonzi, Dennis Flynn, Tim Powers.

Friend takes top prize home

Continued from previous page

weather which lashed the first-day field with sleet and rain and threatened cancellation. However, storm conditions vanished, course superintendents restored their tracks to excellent shape, and the tournament received the go-ahead.

Null opened with a one-over-par 72 despite a bogey-bogey finish on the "devilish" par three 17th and the difficult windup par-4 18th. He began the final day with a birdie to pull even with the card, but soon after ran into trouble.

He found water on two holes for a double bogey and bogey.

Playing partner Friend, meanwhile, was rock-steady. He hit 16 greens in regulation. While he

didn't make any big putts, he didn't miss a couple of par-testers.

Friend's previous tourney highlight was gaining the final round of 16 in the 1991 U.S. Publinx championship.

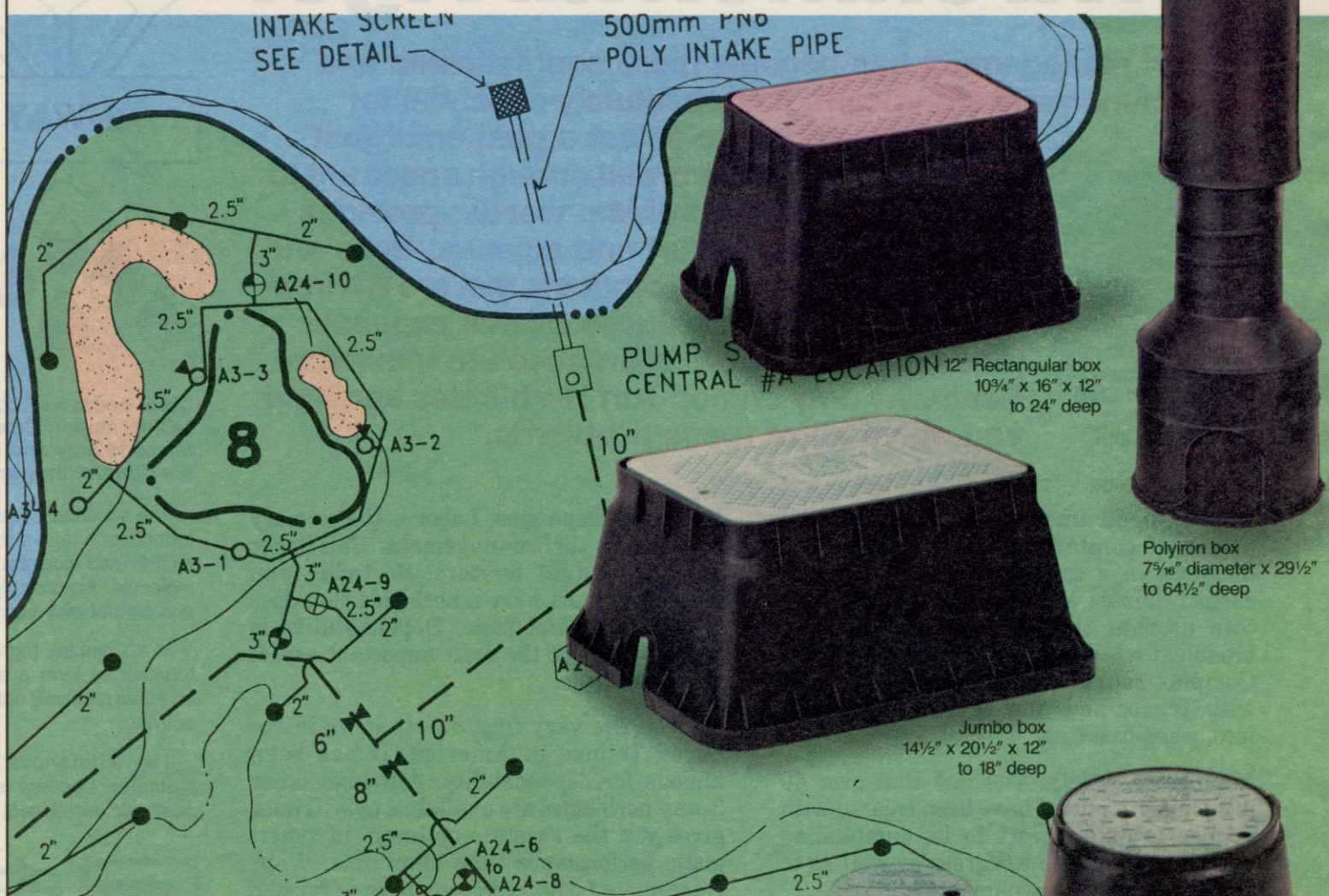
Friend, a pro for eight years, had been pro-superintendent at Mill Porter Country Club in Pawatan, Va., before deciding to go the strictly superintendent route. He was assistant pro at Hermitage Country Club in Manikin-Sabat, Va., from 1982-85.

His handicap has ranged from 2 to 4. He was a bit surprised at his title triumph because his playing time had been limited last summer. A tornado last August had devastated trees on his course.

Friend succeeds Dick Stuntz, Alvamar Country Club, Lawrence, Kan.

GCSAA
Wrap-up

Specify AMETEK valve boxes for engineered solutions in every irrigation application.



LAKE VIEW GOLF & YACHT CLUB; Roger Packard, Architect—Larry Rodgers, Irrigation.

AMETEK valve boxes let you design-in exactly the right unit for the application. You'll find round boxes in two different sizes; rectangular boxes, including a flared bottom design, in standard and jumbo sizes and with extensions for every depth; and even a valve box for depths up to 5 feet.

Lids are available in green to blend-in, in purple to identify reclaimed water systems and in black for electrical applications. Vandal resistant locking options include our patented snap lock

and pentagon shaped bolts.

For specifications on the complete line of irrigation valve boxes and the location of your nearest dealer, contact AMETEK, Plymouth Products Division, P.O. Box 1047, Sheboygan, WI 53082-1047. Tel: 800-222-7558. (In WI, 414-457-9435). Fax: 414-457-6652.

AMETEK
PLYMOUTH PRODUCTS DIVISION

Products Manufactured From Recycled Plastics



10" Round box 9" diameter x 10" deep

Economy box 6 3/8" diameter x 9" deep

6" Flared box 10 3/4" x 16" x 6" to 18" deep

CIRCLE #141

Maintaining Immaculate Turf is a Complex Assignment

- **Super TRIMEC®:** Unparalleled broadleaf control from cool-weather broadcast spraying or summer spot treatments of hardened-off weeds, including spurge, oxalis and ground ivy. One gallon covers 4 acres.
- **TRIMEC® Classic:** Unmatched efficiency for controlling broadleaves when they are actively growing in cool-season turf. One gallon covers 2½ acres.
- **TRIMEC® Plus:** The ultimate post-emergent herbicide for outstanding control of crabgrass and nutsedge plus all the broadleaves controlled by Trimec Classic. One gallon covers up to 1 acre.
- **TRIMEC® Southern:** Especially designed to control broadleaves in 2,4-D-sensitive southern grasses. One gallon covers 4 to 8 acres.
- **TRIMEC® 992:** The applicator's formula especially designed for tank mixing with liquid fertilizer or other combinations. One gallon covers 2.66 to 3.5 acres.
- **TRIMEC® Encore®:** A Trimec Complex that replaces 2,4-D with MCPA. One gallon covers 1.75 to 2.66 acres.
- **TRIMEC® Bentgrass Formula:** Especially designed for use on bentgrass. One gallon covers 2 to 2.66 acres.



Weed Control in the Environmental Age:

As turf management has become more sophisticated and environmentally significant, it is absolutely essential for turf professionals to select a post-emergent herbicide that: Has a broad enough spectrum to control virtually all problem weeds; provides maximum safety to turf and adjacent trees and ornamentals; contains products that are environmentally sensitive; reduces overall expenses (chemical and labor) to an absolute minimum. **Read why only Trimec Turf Herbicides can help you solve all of these problems.**



Everett Mealman
Chairman and Chief
Executive Officer
PBI/Gordon Corp.

Broad Spectrum Control: The synergistic power of combining 2,4-D, MCPP and dicamba in a complex is so dramatic it earned Trimec a patent. Customers have told us that they haven't yet found a broadleaf weed in their turf that a Trimec Complex couldn't control. Spray it right with Trimec and your reward is immaculate, weed-free turf.

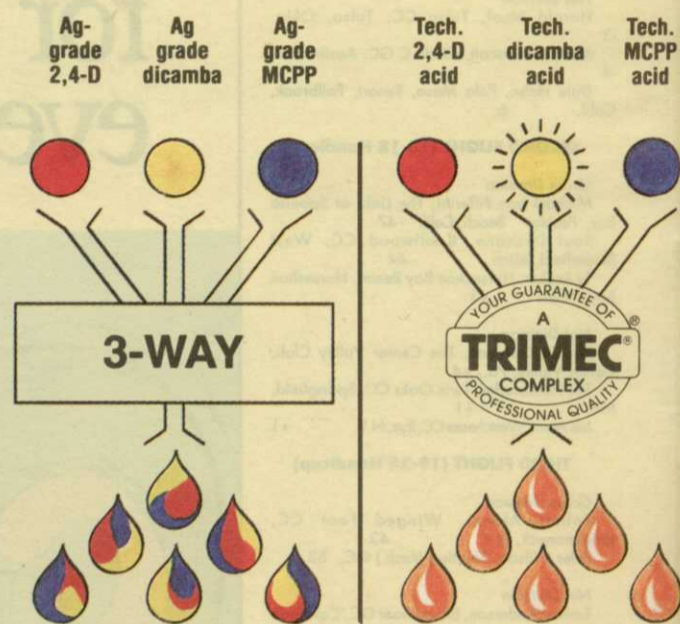
Maximum Safety: The fact that over 40 million acres of turf have been treated with Trimec to date attests to its outstanding margin of safety to turfgrass as well as to adjacent trees and ornamentals.

Minimum Active Ingredients: A broadcast spray of Trimec Classic at maximum label strength releases about one-third ounce 2,4-D; one-sixth ounce of MCPP; and four-one-hundredths ounce of dicamba per 1,000 square feet.

Reduced Expenses: Labor is the primary expense in turf management. Call-backs are the budget busters. So today you absolutely must have a herbicide that does it right the first time. Dependability is without a doubt the most important aspect of an herbicide.

From the very first day that we introduced Trimec in America, it has been famous for dependability. Although other 3-way herbicides are available, only Trimec gives you the absolute optimum in synergistic performance time after time. Why? Because of the way we make Trimec Broadleaf Herbicides.

In a standard 3-way tank mix, the droplets are not always identical, so there can be discrepancies in control. In a Trimec complex, every droplet is identical, for weed control you can count on — time after time.



Color code: Red, 2,4-D; yellow, dicamba; blue, MCPP; amber, Complex acid. Note: Colors are for code only and do not indicate the color of the product they are intended to identify.

The schematic drawing above indicates that, in a formulator's tank-mix (left), the molecules of 2,4-D, MCPP, and dicamba do not combine to form a new molecule. Accordingly, each droplet will be different and control may vary from droplet to droplet.

In a Complex (right), the three acids are reacted together to form a salt. Every droplet is identical, and thus precisely optimizes the intended synergistic activity.

The differences between a tank-mix and a Complex become significant when the goal is aesthetic excellence.

G pbi/gordon corporation

1217 West 12th Street
P.O. Box 4090
Kansas City, MO 64101
816/421-4070

TRIMEC®

HERBICIDE
766-1292

BRIEFS



JONES OPENS FLORIDA TRACK

ODESSA, Fla. — Fox Hollow Golf Club, an upscale public-access facility featuring an 18-hole championship golf course designed by Robert Trent Jones Sr., opened for play Jan. 20. Fox Hollow is the centerpiece of the 3685-acre master-planned Trinity Communities development in southwest Pasco County 30 miles north of Tampa. Each hole has six sets of tees on the par-71 course which can play from 4,454 to 7,138 yards. William Sandri of Bernardston, Mass., owns and will operate Fox Hollow. Sandri also operates the award-winning Crumpin-Fox Club in Bernardston, Mass., designed by Jones.

MAPLES TRACK REOPENS

SUNSET BEACH, N.C. — The Dan Maples Golf Course at Sea Trail Plantation and Golf Links has opened for play after undergoing a renovation. First opened in 1985, the Maples Course is Sea Trail's original track. The renovation consisted of resurfacing eight greens with Penncross bentgrass to allow for more consistent play.



Dan Maples

PALMER HIRES VEAL

Joe T. Veal has joined the staff of Palmer Course Design Co. as design associate and construction inspector. Veal interned with the company during summer breaks from his studies at the University of Georgia, where he graduated with a bachelor's degree in landscape architecture. After graduation and prior to joining Palmer Course Design, he worked as a project superintendent for MacCurrah Golf Construction Co., Inc.

SULLIVAN TABBED FOR NY JOB

VALHALLA, N.Y. — Sullivan Architects of Valhalla has been retained by Westchester County as the project architect and Cornish and Silva Inc. as course architects for the expansion and rehabilitation of Mohansic Golf Course. Sullivan Architects and the County officials are hoping to have golfers playing the expanded facility by the spring of 1997.

BARBARON BUILDING AT CYPRESS LAKE

LAKELAND, Fla. — Barbaron, Inc. of Crystal River has been selected by Cypress Lakes Ventures to construct a new 18-hole additional course at the Cypress Lake Golf and Country Club here. The course has been designed by Powell Golf Design of Bradenton and is scheduled to open in the early fall.

Gotham City golf industry gets new face

Manhattan's piers get new wrinkle with golf range

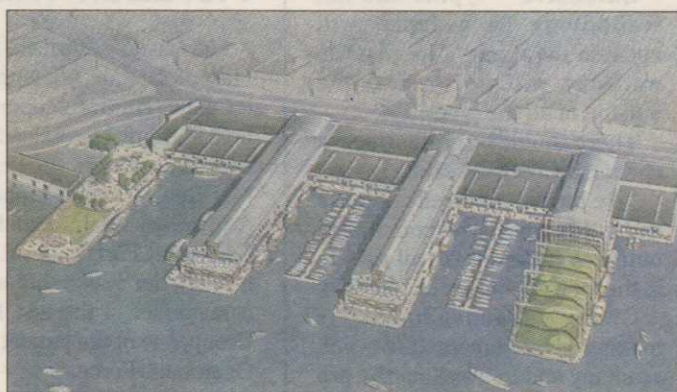
By MARK LESLIE

NEW YORK CITY — New York City is reclaiming its Manhattan waterfront and golf has a hand in it. The natural feel of a golf course will be blended with a high-tech delivery system in a major project that will bring a four-deck golf range to a Hudson River pier.

"We're taking an urban concept you'd find in Japan and importing it to New York — the difference being, instead of a smaller parcel of land, our parcel happens to be a pier and one that is structurally quite substantial," said Steve diCostanzo, a consultant on the Chelsea Piers project.

Construction will begin in late spring on the Chelsea Piers Golf

Continued on page 42



Golf facilities at Chelsea Piers, above, and Liberty Park, below, will greatly enhance the golfing options for New Yorkers.



NYC skyline the backdrop for Jersey City track

By PETER BLAIS

JERSEY CITY, N.J. — There is a light at the end of the Liberty State Park tunnel. And the chief proponent of the long-awaited golf course project says there is a better than even chance believers will be able to drive through it by summer's end.

"We're hoping to get Department of Environmental Protection and Energy approval within the next six months," said Peter Ylvisaker, president of the non-profit Liberty State Park Development Corp.

If approved, construction should start in early 1995. The course could be ready for play in 1997, two decades after the idea of a golf course was first proposed.

Continued on page 43

Florida Public Television tunes in: How to construct a golf course

By MARK LESLIE

BONITA SPRINGS, Fla. — With golf development booming all around it and the golf industry bringing billions of dollars a year into the state, the southwest Florida public television station is broadcasting a 13-part documentary, How To Build a Golf Course.

"Golf is a large component of the construction and real-estate business in southwest Florida. Most real-estate developments are using golf courses as a prime marketing tool," said Kirk Lehtomaa, station manager at WSFP-TV, who will offer the series nationwide this summer. "Within a 10-mile radius of our station, at least six or seven 18-hole

championship courses are under construction."

With that in mind, Lehtomaa spent part of 1993 following the construction of a fourth nine holes at Pelican's Nest here, from pre-construction site inspections in April through opening day in December. The result is the series of half-hour shows which began airing Jan. 20. Each show will be broadcast twice — Sundays at 2 p.m. and Thursdays at 8:30 p.m.

In the first segment an environmental consultant walks the audience over the course, pointing out wildlife that will have to be protected and enhanced. In another show, Wadsworth Golf Construction Co.

Continued on page 43

Q & A Weed: Tour's designer of record

Robert C. 'Bobby' Weed, 38, has been the PGA Tour's chief designer since 1987. Prior to that, he was superintendent of TPC at Sawgrass and construction superintendent for TPC projects. Working



out of the Tour's Ponte Vedra, Fla., office, Weed has been involved in numerous TPC course designs. A South Carolina native, he apprenticed with Pete and Alice Dye and was involved with such widely known Dye designs as Harbour Town and Long Cove in Hilton Head, S.C., TPC at Sawgrass in Ponte Vedra, and Amelia Island (Fla.) Plantation.

Golf Course News: You believe you may be the only member of the American Society of Golf Course Architects who is also a Certified Golf Course Superintendent. How has that helped your design career?

Bobby Weed: I know from my agronomic background what a superintendent can live with and maintain. When I'm designing fairways, sometimes I imagine I'm on a mower. Knowing how something will have to be maintained can give you an edge. Labor is 60 to 70 percent of your maintenance budget. More people are tuning into that in the design phase. If you address it then, it dominoes through to the superintendent's budget and ultimately the fee charged the consumer, who is really paying for all this, anyway.

GCN: How early do you like to bring in

Continued on page 46



72 HOLES AND GROWING

The Scott family continues to add to its Gull Lake View Golf Club halfway between Chicago and Detroit, and is in the midst of a new 18 that will make a total of 90 holes. Stonehedge, shown here, was designed by Charles Scott, as was Gull Lake View East. Darl Scott designed Gull Lake View West and Bill Mitchell laid out Bedford Valley — both of which Charles Scott later remodeled.

Chelsea Piers a facelift

Continued from page 41

Range on Pier 59 and it should open in the spring or summer of 1994, according to diCostanzo, executive director of the Golf Range and Recreation Association of America.

The range is part of the \$50 million Chelsea Piers Sports and Entertainment Complex in which Piers 59 to 62, between 17th and 22nd streets, will be renovated.

Then-Mayor David N. Dinkins called it "the first major step linking our neighborhoods and our waterfront as contemplated by the Hudson River Park Conservancy and New York City's Comprehensive Waterfront Plan."

After two years of planning, Chelsea Piers Management, Inc. secured a 10-year lease with 10-year renewable option on the four piers from New York State, which owns them.

The Hudson River Park Conservancy wants a park from the battery to 59th street.

Officials felt this was compatible with Chelsea Piers' plans, which include the range on one pier, a health and fitness center called the Summer Games Training Facility on the enclosed Pier 60, two Olympic-sized skating rinks on another enclosed pier, and possible an outdoor rollerskating rink on the fourth, said spokeswoman Betsy Haggerty. The first skating rink should open by next Christmas and all four piers should be complete by the end of 1995, she said.

...

From 52 heated teeing stations, the 60- by 225-yard driving range will "evoke the feelings" of three famous greens — the 11th at St. Andrews' Old Course, TPC Sawgrass's island green and Pebble Beach's 18th, diCostanzo said.

The Hudson River and a waste area on the left will create the feel of Pebble's finale; railroad ties and foot-deep water around the green will simulate Sawgrass's 17th; and the bunker complex fronting St. Andrews' green will add to the illusion.

Artificial turfgrass will be on the contoured landing areas and slightly elevated, pitched greens. Video cameras at hitting stalls will provide instant replay of golf swings.

All this will blend with an automatic tee-up delivery system imported from Japan's Sunaga Kaihatsu, a leader in the field. Balls will be picked up conventionally at low points on the fairway and brought to the retrieval system, which will return the golf balls in water troughs and into a conveyor network that will deliver the balls to each level and then to each tee.

"The tee-up accepts a debit card so there is good cash control," diCostanzo said, adding that per-hour costs will range from \$15 to \$25, depending on the time of day.

Extensive pole-and-net technology from Japan will encircle the range. A pedestrian walkway will go around the outside of all the piers.

There should be no shortage of clients, diCostanzo said.

"We have a captured audience and will do aggressive community outreach programs to all golfers in the metropolitan area," he said.

Chelsea Management is making arrangements for a golf academy and to lease out the pro shop.

Call him 'Colonel, sir'

Hurdzan will retire outranking some, but not Arnold

Dr. Michael Hurdzan is a golf course architect most of the time, but for a few days each month, he is Colonel Hurdzan, commander of an Army Reserve unit. Recently he received one of the Army's highest peacetime honors, the Legion of Merit Medal, from Maj. Gen. Donald Campbell, commander of the U.S. Army Civil Affairs and Psychological Operations Command, Fort Bragg, N.C. Hurdzan was decorated for superior leadership and dedication as retiring commander of the 2nd Psychological Operations Group, one of the largest units in the Army Special Operations Force.

Hurdzan's basic branch is Special Forces, more

commonly called "green berets," but he is also qualified in psychological operations, civil affairs, infantry and chemical warfare. He is an experienced military parachutist, has earned the expert infantry badge, as well as foreign airborne qualifications from the British and German military forces.

Col. Hurdzan is planning to retire within a few months. "Many people are encouraging me to stay longer to make the rank of general," he said, "but I now outrank Alister MacKenzie and Hugh Alison, who were majors, and Pete Dye, who was a sergeant. Besides, golf already has one fine general, (in name only) Arnold Palmer."



We cover th

Make us part of your hole maintenance program. From greens aeration to fairway aeration to core cleanup, nobody covers more ground.

Cushman® GA™ 60—Aerate a wide range of turf conditions on fairways, tees and greens at the rate of up to 1.1 acres per hour.

Ryan® GA™ 30—Ryan pioneered variable hole spacing six years ago with the GA 30. Designed for greens, fairways and tees.

Ryan Greensaire® 24—Developed for greens and other fine turf areas, it delivers 110,000 more holes on 10,000 square feet than the competition, making it the ultimate in greens aeration.

Liberty Park course revenues 'will drive development' on the site

Continued from page 41

Revenues from the \$10 million golf course — which will afford spectacular views of Ellis Island, Statue of Liberty and Manhattan skyline — will also pay for \$13 million in improvements and additions to the rest of the park. Approximately 75 percent of Liberty State Park, which opened in 1976, has remained undeveloped for lack of funds.

"The course is the engine that will drive development,"

Ylvisaker said.

Ylvisaker has been around for most of the past 20 years. He has seen environmentalists and nongrowers delay the project again and again, through the courts and through the media.

But opponents have never provided an alternate plan that would pay for the needed improvements at a time when the government simply doesn't have the cash.

"It's been frustrating," Ylvisaker

said. "It's been a deliberate effort to stop the project and frustrate any development plans.

"We recently won a court case involving a marina there. It's about the sixth time we've been to court. The judge chastised the environmental groups for bringing such a frivolous case to trial. It's taken patience and perseverance to get this done. But it should finally pay off."

The turning point, Ylvisaker said, came in December. That's

when the working committee — consisting of local and state officials, concerned organizations and individuals — endorsed reducing the course size by 75 acres. Many opponents warmed to the revised plan and the recommendation was forwarded to the DEPE, Ylvisaker said.

"It will still be a quality course and leaves room for everything else," said Mark Mungeam, associate designer with course architect Cornish & Silva.

Everything else includes 35 acres of wetland habitat, 40 acres of passive open space, nine acres of ball fields and other active open space, community pool, summer camp, picnic areas and jogging trails.

The park sits on an abandoned rail yard where the presence of heavy metals has been an ongoing concern.

Experts have recommended putting a two-foot-thick soil cap over much of the site.

The cost has been estimated at \$4 million.

But a recent development could reduce and possibly eliminate that expense, making additional money available for other Liberty State Park projects.

The state Department of Transportation must remove 800,000 cubic yards of clean fill as part of a wetlands mitigation project on nearby Route 287.

DOT expects to receive bids on the project in February and could make the fill available, at no cost, to Liberty State Park.

"It would assure public safety, help with the design and significantly reduce golf course costs," Ylvisaker said.

Once completed, greens fees are expected to be between \$20 and \$26, Ylvisaker said.

At a projected 53,000 annual rounds, he said the golf facility could generate \$2 million in annual revenues within a few years.

Public TV covers construction

Continued from page 41

takes viewers to two golf holes under construction, discussing what his crews are doing, what he looks for from shapers, and other related issues.

In another show, Fazio Golf Course Designers' project director Charlie Feeley explains how to build a golf green.

Since public television stations are independent, some may choose to run the shows while others may not.

But, Lehtomaa said he has talked to several public television station managers who enjoy golf and "they seem to have an interest in the series." (Coincidentally, a number of them played Pelican's Nest, a popular public track, during a conference two years ago.)

The part of the construction that most impressed Lehtomaa was "There is a great deal that goes on under the golf course that people never see. I was astonished at how much time and energy is spent moving water off the course after it rains."

When will the series be airing on stations that pick it up? "With public television, you never know," Lehtomaa said. Stay tuned.



e hole thing

Cushman Core Destroyer—Pulverize aeration cores at the rate of 115,000 square feet per hour.

For the name of the dealer nearest you, call 1-800-228-4444.

Cushman Core Harvester™—One person can pick up, load and dump aeration cores in the same time it takes three workers with shovels.

All Cushman and Ryan aeration equipment is backed by Ransomes America Corporation Performance Engineered Parts Program.



**CUSHMAN
RYAN**

Driven to be the best.

CIRCLE #167

Matthews: Supers should join construction sites early on

By MARK LESLIE

DALLAS—A superintendent's failure on a new golf course falls on the entire construction team, said architect Jerry Matthews, adding that the "missing link" most of the time is getting the superintendent on board early in construction.

Matthews, the president of the American Society of Golf Course Architects (ASGCA), said: "The environmental concern throws us all together even more than we

were before. No matter how well we design a golf course, how well we build it, how well the contractor and everybody else performs, if the superintendent does not do an 'A number one' job of maintaining it, it affects all our reputations.

"We need to establish, early on, a stronger working relationship between the client, the architect, the contractor and the superintendent. We can't say we'll hire a superintendent when you put the seed on.

Timing is of the essence."

Saying he works closely with the client "because he pays my bills," and the contractor "because I want him to fulfill what I want for a golf course" Matthews said: "The missing link most of the time is the superintendent, who is not at the meetings. He comes in with his own scenario of what maintenance is, and it might not fit with what the rest of us are trying to do. For the most part we don't talk about that, and suddenly

he appears on the job and starts telling us how the course should have been built.

"Hindsight is great. What we need is foresight. We need to get involved early."

Every architect knows they need a superintendent on-site at least by the time the irrigation system is to be installed, Matthew said.

He lamented that, too often, architects have to write maintenance programs for their

courses. "Rightfully, we should write it with the superintendent who's on board," he said.

"We also have to tell a public hearing the superintendent won't pollute the waterways and kill their children, goats, dogs and cats," he said, adding that the superintendent should be at those hearings as the agronomy expert.

Turfgrass schools should teach the theory and application of maintaining new turf, he suggested, mentioning situations he has encountered.

Once the course is built, Matthews said, the biggest problems are that "too many superintendents cut the grass too low, too quick and when it's too wet.

"I've seen mowing when there was not enough grass — there was literally a cloud of dust."

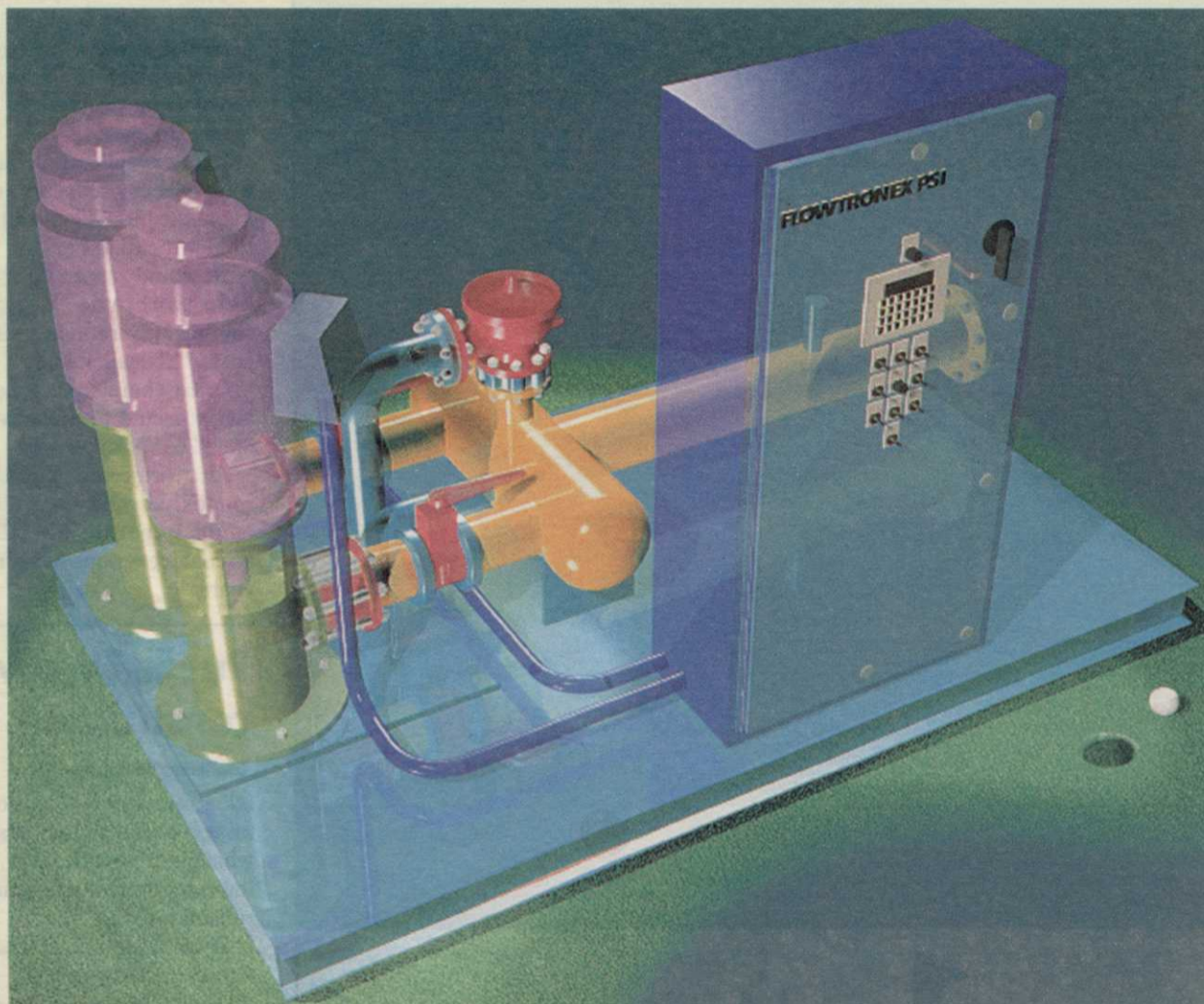
Matthews told superintendents: "Throw away the Stimp meter. The first year, put it away and don't look at it again. Very few people expect a new golf course to be in perfect condition. They want nice greens, but nice greens normally mean 100-percent coverage of turf, not putting speed. I've never, in 30 years, seen one superintendent get fired for having greens that were a little too long and healthy. But I have known a few lose their jobs because they insisted that those greens have a very fast putting speed. You can do that but you're going to kill them."

Once the superintendent gets on the job, Matthews suggested they:

- Learn how to read blueprints.
- Look at surface water drainage on the course.
- Check the trees. ("Trees are a problem. They create beautiful golfholes. They frame them. They provide background. And, low and behold, when the superintendent gets there, all they are doing is providing shade, which prevents him from growing grass. I'm saying, 'I like those trees.' He's saying, 'We're going to cut them down.' There's a balance of design and practical construction leading toward a maintainable golf course and trees are just one issue.")
- Pay attention to how much topsoil goes back on the golf courses. ("If a superintendent is going to grow healthy turf on that site, he should watch what happens in terms of topsoil. Everybody does a nice job on tees and greens. But how about fairways and roughs?")
- Get involved by the time the irrigation system is installed in order to know where it goes and how it should function.
- Look at the slopes — how steep they are and if they are maintainable by equipment or hand-mowing.
- Check the drainage in the bunkers and "don't let anyone tell you native soils don't need drainage. Sometimes that is true but not usually."

SILENT STORM

Future technology available today.



"Silent Storm VFD pump station exclusively from FLOWTRONEX PSI"

Silent Storm represents the latest in VFD pump station technology from the industry leader.

Standard features:

- 98.5% efficient Variable Frequency Drive
- Quiet-running IGBT transistors
- OTIS intelligent operator interface
- Built-in data logging
- NEMA 4 UL listed control panel
- Steel pump discharge heads
- 100% seal-weld deck plate for optimum corrosion resistance
- 5 nano second surge arrestor with ~20 million Volt Amp capacity
- Smoothflow V control software
- FlowNet service and support network



For more information and a complete product brochure call
1-800-527-0539

FLOWTRONEX PSI
Pumping Systems

Courses recently planned in the United States

Location	Type	Holes	Contact
Alabama			
Alabaster	D	18	Tommy Snowden
Alaska			
Fairbanks	D	18	Jerry Matthews
Arizona			
Peoria	M	18	Ron Ault
California			
Palm Springs	D	18	Joseph Solomon
Santa Cruz	D	18	Robert M. Graves
Colorado			
Broomfield	D	18	Lea Rippey
Canon City	D	18	Harold Lewis
Gould	D	18	Fred Sauer
Florida			
Davenport	D	36	Tommy Byrd
Port St. Lucie	D	36	Tom Fazio
St. Augustine	D	18	Bobby Weed
West Palm Beach	D	18	Joe Lee
West Palm Beach	P	18	Pete Dye
Georgia			
Waycross	D	18	Steve Burns

Location	Type	Holes	Contact
Hawaii			
Wailuku	D	18	Libert Lindgraf
Illinois			
Bloomington	D	18	Arnold Palmer
New Lenox	M	18	Wm. McCollum
Wheaton	M	27	Ken Killian
Indiana			
Indianapolis	M	18	Jan Tellstrom
Kansas			
Troy	M	18	Blue T Golf
Louisiana			
Many	D	18	Dave Bennett
Michigan			
Ludington	D	18	Wm. Newcomb
Mt. Clemens	D	18	Lanny Wadkins
Missouri			
Springfield	D	18	Keith Keltner
Montana			
Anaconda	D	18	Jack Nicklaus
Butte	D	18	John DeWitt

Location	Type	Holes	Contact
Nebraska			
Gering	M	9	Wally Baird
Nevada			
Sparks	D	18	Robert T. Jones II
New Hampshire			
Gilford	D	9	Robert Bolduc
New Jersey			
Vineland	N/A	18	Samuel Fabian
New York			
Newburgh	D	18	Mac Zeger
North Carolina			
Roxboro	D	18	Bill Winstead
North Dakota			
Moorhead	M	9	Joel Goldstrand
Ohio			
Middletown	D	9	David Brooks
Oregon			
Bend	D	9	Rick Good
Pennsylvania			
Butler	D	18	Jeff Cuny
Tennessee			
Collierville	D	18	Kevin Tucker
Wisconsin			
Janesville	D	18	Gregory Martin

Under "Type" — D-Daily fee; P-Private; M-Municipal; "Work" — N-New; R-Renovation; A-Addition.

Courses recently approved in the United States

Location	Course Name	Type	Holes	Work	Contact
California					
Escondido	The Vineyard at Escondido	D	18	N	David Rainville
Merced	Merced Community GC	M	18	N	Blue T Golf
Roseville	Sun City	N/A	18	N	Greg Nash
Canada					
Whistler, B.C.	Green Lakes	D	18	N	Jack Nicklaus
Colorado					
Canon City	N/A	M	18	N	Richard Phelps
Florida					
Stuart	Champions at Summerfield	N/A	18	N	Tom Fazio
Illinois					
Wheaton	Klein Creek GC	D	18	N	Dick Nugent
Indiana					
Evansville	Clearcrest Pines	D	9	A	Ron Pritchard
Michigan					
Marquette	Chocolay Downs	N/A	9	A	Jerry Matthews
Minnesota					
Atwater	Island Falls CC	D	18	N	Charles Zaeska
Missouri					
Smithville	Paradise Pointe GC	D	18	A	Craig Schreiner
New Jersey					
Hillsborough	Royce Brook GC	D	36	N	Steve Smyers
North Carolina					
Fuquay-Varina	Crooked Creek	N/A	18	N	Jim Bowling
Oklahoma					
McAlester	Thundercreek GC	D	18	N	Sam Green
South Carolina					
Clemson	Clemson Univ. GC	D	18	N	D.J. DeVictor
Myrtle Beach	N/A	D	18	N	John Daly/Clyde Johnston
Tennessee					
Franklin	Little Course at Aspen Grove	D	9	N	Dick Horton
Texas					
Conroe	Bentwater CC	P	9	A	Scott Miller
Utah					
Hurricane	Hurricane Sky Mountain GC	M	18	N	Jeff Hardin
Wisconsin					
Johnstown	Dorr's Farm CC	D	18	N	Gilmore Graves

New! Speed Wrenches

STAMOS TOOL COMPANY has introduced a new full line of cast aluminum speed wrenches designed to fit all nub-style PVC fittings and most adapters. These wrenches outperform chain, strap, and pipe wrenches by far. Each wrench is designed to fit two different sizes of coupling caps and bodies. Only minimal ground clearance is required. They will work on all manufacturers fittings. Since repairs can be made



very short time because of the ease of usage."

--Wally Louan, Meridian, ID

For PVC Nub-Style Fittings

much easier, the result is considerable savings to your operation. Many of our customers have offered their extreme satisfaction with the **STAMOS PVC NUB WRENCH**. Here are some of their comments:

"Performed admirably, exceeded my expectations by far."

--John Gallagher, Orange, CT

"Best irrigation tool improvement and innovation developed in quite some time."

--Jim Hengel, NY

"They pay for themselves in a

Stamos Tool, Inc.
Manufacturers of the Stamos PVC Nub Wrench™
5469 Kendall St., Boise, Idaho 83706
Phone (208) 377-0511 • Fax (208) 327-1420

CIRCLE #162

Suburban NYC course utilizes natural features

POMONA, N.Y. — Old cisterns that serve as natural hazards, native wildlife and restored Native American artifacts that date back to 7,000 B.C. give a uniqueness to a new private country club here, 25 miles from the George Washington Bridge.

The facility, Minisceongo Golf Club, designed by British architect Roy Case, will be open for member play in June. The championship 18-hole track winds through virgin forests, wetlands, and red maple swamps to create a challenging round from any of five tee positions.

The target-style layout is nestled among 160 acres of gently rolling forest. From any vantage on the course the golfer is completely surrounded by nature and views of the Ramapo Mountains.

Minisceongo (pronounced mini-see-ongo) is owned by Eric Bergstol and managed by the Arnold Palmer Management Co.

GOLF COURSE NEWS

New for 1994

Plastic Putting Cups

Practice Regulation
\$2.75 \$3.25

Super White Matte Finish



Solid Fiberglass Flagsticks

1/2" Straight Stick 3/4" Tapered Big Stick
7' \$9.00 7' \$15.00
8' \$9.50 8' \$16.00

Rich White or Creamy Yellow
Ask About Our Stripe Options

Nylon Flags

Practice & Regulation
Position Regulation

Plain	\$2.25	\$4.00
Custom Screen Printed		
1 color	\$4.25	\$6.50
2 color	\$5.25	\$8.50
3 color	\$6.25	\$10.50
4 color	\$7.25	\$12.50

Custom Embroidered up to 6 colors	\$6.00	\$16.00
-----------------------------------	--------	---------

Sewn Checkered \$9.50

Custom Checkered Screen Printed	
1 color	\$12.00
2 color	\$14.00
3 color	\$16.00
4 color	\$18.00

Custom Checkered Embroidered up to 6 colors	\$18.00
---	---------

Grommet and Tubular Flags are the same price.

PHONE 404-487-8095 800-233-3853 FAX 404-631-3825 800-277-7701
P.O. BOX 2899 297 DIVIDEND DRIVE PEACHTREE CITY GEORGIA 30269

CIRCLE #145

FACTORY DIRECT PRICES

Weed definitive on need for superintendent early on in construction

Continued from page 41

a superintendent onto a new project?

BW: He should definitely be brought in before the irrigation starts. It wouldn't bother me to bring him in during clearing. He could be another set of eyes for protecting trees, making sure you don't over-clear. The superintendent should be not only the owner's representative, but also the eyes for the architect.

GCN: How did you get involved with the PGA Tour?

BW: I came down to the TPC at Sawgrass in 1983 at the request of Pete Dye. He and [PGA Tour Commissioner] Deane Beman wanted me to take over, manage and make the necessary changes to the golf course. I had just been working on Long Cove. Pete, P.B. [Dye] and I had basically been living up there together. Pete was running back and forth between the two, P.B. was on top of the bulldozers and I was trying to help lay out the work and stay on top of it. I came down to Sawgrass because the players were complaining about the conditions and the Tour wanted to make some changes.

GCN: Did you consider yourself a golf course architect at that point?

BW: Not at all. At best, all I'd been involved in was some miscellaneous construction, getting an agronomic background and working with Pete. That opened my eyes to the fact there was a lot more to this business than just maintaining turfgrass.

GCN: How do you feel about today's course designs?

BW: In some instances, we got a little too radical in the mid- to late-1980s. You're seeing some softening back to more maintainable designs. We interviewed 150 Tour players in 1991 and asked them what their favorite courses were. They all picked Golden Era [early 1900s] courses, except for Muirfield Village [a Jack Nicklaus design in Columbus, Ohio] and Harbour Town. At that point I thought we might have gone a little too far with the sharpness and angles and contrived golf courses. But, the sites we're given today are often inferior to those of the past. Look at PGA West. It was flat. And look what they created. It's a masterpiece. They had to build something dramatic to get people out there. You couldn't build the type of course Donald Ross would have done in 1921. It wouldn't have gotten any recognition. Times have changed. But there are still opportunities to combine the traditional values with today's standards.

GCN: What's the key to a good design?

BW: You need a recurring theme, something a golfer sees four to six times during a round. At Sawgrass, it was the pine straw areas and native vegetation.

Flowers would be out of place there. At PGA West and TPC at Summerlin [Nevada] we stayed with drought-tolerant, low-growing shrubs. At Old Marsh [Dye] in Palm Beach [Fla.] the marsh is the overriding theme.

GCN: Are today's golf courses less playable than older layouts?

BW: Many of the golf courses built during the Golden Era were considered difficult for their time. Advances in high-tech clubs that get the ball in the air quicker and farther have made a difference.

You have to know who you are building the golf course for. If it's a resort, it needs to be playable, scenic, photographable and memorable, with enough tees to accommodate different ability levels. Most golfers simply don't play the tees they should be playing. They often go back one more level than they should and it slows the game. No course should force players to put the ball in the air too much. They should be able to run it to the green.

GCN: How did you get involved

in course design?

BW: I grew up on a farm. I talked my dad into letting me build a driving range and putting green on some extra land when I was in the 10th grade. In fact, it's still operating. I played golf in high school and a little in college. I knew I wanted to be in the golf business and got my training at Lake City (Fla.) College. I met Pete and Alice at Amelia Island. They took me under their wings.

GCN: Who had the greatest influence on your career?

BW: Pete and Deane. They've given me most of the opportunities I've had. I've never known two individuals with such an affinity, love and obsession for the game. A day doesn't go by, either, when I don't thank my father for the work ethic he instilled in me.

GCN: How long will you remain with the PGA Tour?

BW: My contract runs through the end of the year. I appreciate my affiliation with the Tour. It's been great exposure for me and I

Continued on next page

FORE[®] BEATS 14 TOUGH DISEASES ON NATIONAL TOUR

You didn't read it in the sports section. But Fore fungicide recently wowed course superintendents in 17 states.

Put to the test, Fore showed it was one of the hardest-hitting broad-spectrum fungicides in commercial turf care today. And probably the most economical.

Beats more diseases for the money.

On tees, greens, and fairways, Fore proved it was more than a match for 14 major diseases. Including such well

known names as Brown patch, Dollar spot, and Helminthosporium melting-out.

And as superintendents in 17 states discovered, a treatment of Fore costs far less than the leading competitive fungicides.

No resistance after 25 years.

A multi-site enzyme inhibitor, Fore has been defeating turf diseases for over 25 years. And in all that time, not one of those diseases has mustered even the least resistance.

Holler Fore! Even for Pythium.

Spray a reduced rate mixture of Fore and Subdue (or Banol) – and you can also gain improved control of Pythium blight.

So if you're looking for a proven broad-spectrum fungicide to strengthen your program this year – holler Fore! And duck some of the high cost of turf care at the same time.

**ROHM
AND
HAAS**

CIRCLE #146

*For information on trials and warranty, write: Rohm and Haas, c/o Bob Gordon, Independence Mall West, Philadelphia, PA 19105

**Limited warranty: Fore fungicide is guaranteed to control labeled turf diseases or your purchase price will be refunded.

Architects choose Watson for honor

Continued from page 1

"Another area I've had some influence in is water use. I've spent a lot of time on conservation of water, irrigation practices that minimize the use of water, use of brackish waters and blending of brackish waters with fresh waters."

"Everyone in the ASGCA and the golf industry has benefited from Dr. Watson's efforts," said ASGCA President Jerry Matthews. "His work in applying scientific research to improve the quality of turfgrass is exemplary,

especially with regards to course construction and maintenance."

The ASGCA presents the Ross Award to an individual who has made significant contributions to the game of golf, and especially golf course architecture, and Jim Watson "fits that description as well as anyone in the country," Matthews said.

"It's darn good company to be in," said Watson, who joins the list of Ross Award winners that includes Royal and Ancient Secretary Michael Bonallack,

then-USGA Executive Director Frank Hannigan, former USGA Green Section Director Al Radko, PGA Tour Commissioner Deane Beman and ex-commissioner Joe Dey, National Golf Foundation founders Herb and Joe Graffis, and ASGCA founding member Robert Trent Jones Sr.

A fellow of the American Society of Agronomy and the Crop Science Society, Watson received the Distinguished Service Awards from the U.S. Golf Association Green Section in 1976 and the GCSAA in 1983.

He is a founder of the International Turfgrass Society and

the USGA Green Section Turfgrass Research Committee, serving as the ITS president from 1989 to 1993.

Landscape Management and Landscape and Irrigation magazines selected him as Man of the Year in 1986.

The Toro Co. recently agreed to fully underwrite the Dr. James R. Watson Fellowship, a new scholarship and research program the GCSAA designed to identify and reward young researchers and instructors in fields related to golf course management.

A Louisiana native who served in World War II, Watson obtained a bachelor's degree in agronomy

from Texas A&M in 1947 and a doctorate from Penn State in 1950.

He took the post as director of agronomy with Toro in 1952.

Being recognized by the ASGCA, Watson said, is "a professional achievement of the highest degree."

Q&A: Weed

Continued from previous page

hope to continue in some capacity. But I believe I'll be doing more work on my own in the future. The Tour has some specific target areas in mind. But it has scaled back the design staff to two — me and a landscape architect named Chris Gray.

GCN: Does any project give you special pleasure?

BW: I've enjoyed them all. I'm thrilled with the TPC at River Highlands [Cromwell, Conn.] It was my first New England course. Other than the U.S. Open at Pebble Beach a couple of years ago, it's about the only tournament course where the winner shot single digits [below par].

GCN: How do you react to criticism of TPC courses or criticism in general?

BW: It's easier to be critical than to be correct. I don't think architects are given enough respect. We take a project from Day 1 to opening day. It's a tough job.

GCN: How do you feel about Tour players getting involved in design work?

BW: I think it's great. Competition is good. But there is more involved than just lending your name to a project. The two pros who are members of the architects society — Jack Nicklaus and Mark McCumber — are very involved with their projects and know what's going on. Tom Weiskopf is another player who has worked hard to understand design. I think there will be more pros getting involved. But if they think they can make four or five visits to a site and that's it, they're wrong. The ones who are successful at it have scaled back their play to accommodate their design work. You can't be in this business in a passive manner. It's a full-time job.

GCN: What does the golf industry need to improve on?

BW: The different groups in the industry need to be more allied. I said that five years ago. It's improving, but we are still too fragmented. Each association has its own agenda. There must be a way to blend those varying interests together.

GCN: What can superintendents do to help the industry?

BW: The best thing they could do is talk to students at the elementary schools. Have them visit your course, explain what you do and how the course serves the environment. You'll be lobbying for the industry's future. If there are 30 million golfers today, those students will push it to 50 million in the future.

Carefully monitored trials* in these 17 states showed Fore controlled 14 major turf diseases.

NOW AVAILABLE IN WET FLOWABLE

FORE

Turf & Ornamental Fungicide

GUARANTEED TO TEE OFF ON MAJOR TURF DISEASES OR YOUR MONEY BACK**

GOLF COURSE



EXPO

ORANGE COUNTY CONVENTION CENTER
ORLANDO, FLORIDA
NOVEMBER 11-12, 1994

A NATIONAL EXHIBITION AND CONFERENCE FOR OWNERS,
SUPERINTENDENTS, MANAGERS, AND DEVELOPERS OF
PUBLIC-ACCESS GOLF FACILITIES

Sponsored by:

**GOLF COURSE
NEWS**

Conference co-sponsored with:



Announcing the premier national trade show and conference just for superintendents, owners, and managers of public-access golf course facilities

It's called **Golf Course Expo**, the premier national expo and conference for daily fee, municipal, semi-private and resort courses—and it's sponsored by *Golf Course News*.

The Expo features:

- More than 200 companies with products and services on the trade show floor
- A one-stop marketplace for all you need to profitably build, manage, maintain and market the public access course
- Practical solutions for superintendents, owners, managers and developers of public access courses
- A two-day educational program with three-tracks featuring industry leaders speaking on agronomy, management, and development

Plan now to be there

**Mark your calendar NOW and send for more information—
what could be easier?**

YES!

- ☐ Send me information about Golf Course Expo—including free VIP admission to the show floor
- ☐ I'm also interested in information on the three track conference
- ☐ My company would like to purchase exhibit space—please send me more details

Name _____ Title _____

Organization _____

Address _____

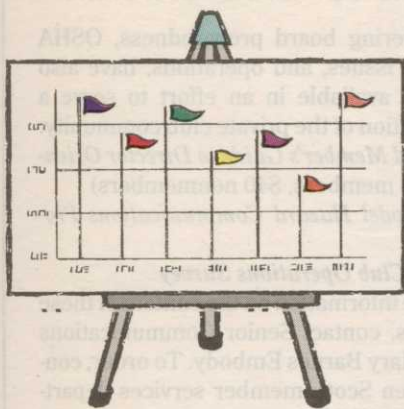
City _____

State, Zip _____

Phone _____ Fax _____

Return to: Golf Course Expo
PO Box 997
Yarmouth ME 04096
or fax to 207-846-0657

BRIEFS



NGF RANGE SEMINAR IN APRIL

JUPITER, Fla. — The National Golf Foundation will conduct an educational conference in Newport Beach, Calif., for individuals interested in development opportunities that exist today for golf ranges and learning centers. The program, which is structured for maximum audience participation, is scheduled for April 17-19 at the Hyatt Newporter. For more information, contact Roger Yaffe at the Foundation at 407-744-6006.

ABERNETHY DOG AT DEBORDIEU

PAWLEY'S ISLAND, S.C. — John A. Abernethy is the new director of golf and head golf professional at DeBordieu Club, a 2,700-acre oceanfront golf community in South Carolina featuring a Pete Dye course. Abernethy comes from Lancaster (Pa.) Country Club, where he was head pro for 29 years. Abernethy has been president of the Central Pennsylvania Section of the PGA and the Lancaster County Golf Association.

SCGA BUYS RANCHO CALIFORNIA

NORTH HOLLYWOOD, Calif. — The Southern California Golf Association has bought 18-hole Rancho California Golf Club in Murrieta for \$8 million. The purchase price includes additional land on which the SCGA plans to build another nine holes, clubhouse and driving range. The course, designed by Robert Trent Jones Sr., is about 20 miles south of Riverside and 50 miles north of San Diego.

CAGLE TO MANAGE TWIN OAKS

ALLEN, Texas — Roger Cagle has been named manager and superintendent of the Arnold Palmer-designed, 18-hole golf course at Twin Oaks, this city's new, 2,700-acre residential community. Cagle has been course superintendent at Eagle Watch Golf Club, Woodstock, Ga. Twin Oaks, a par-72, 7,000-yard layout, is scheduled for completion in the fall of 1994. It will be open to the public.

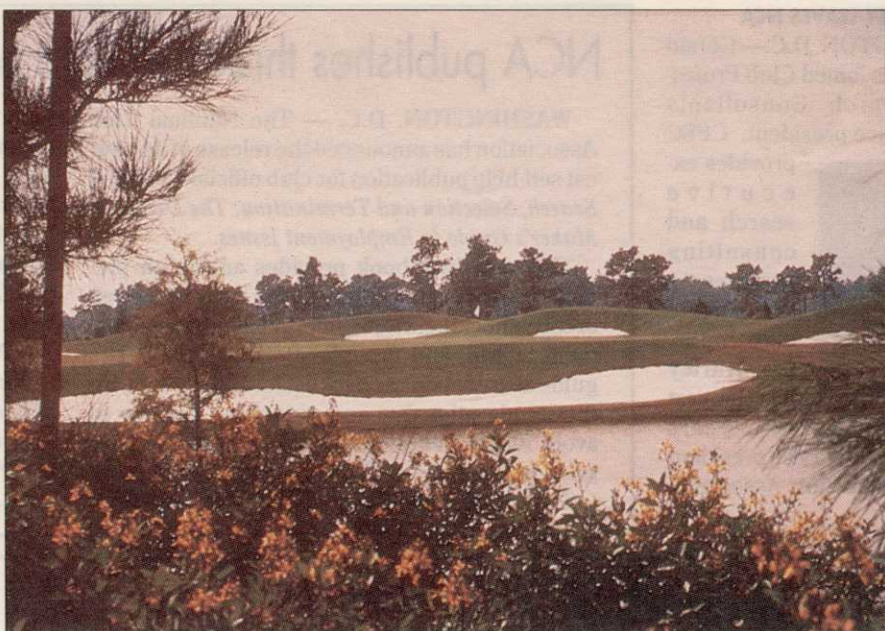


Roger Cagle

JOHNSON NAMED CASPER VP

VIENNA, Va. — Steve Johnson has been appointed vice president of golf operations for Billy Casper Golf Management, Inc. Johnson has directed field operations the past eight years for Arnold Palmer Golf Management Company, Orlando, Fla. He was Merchandiser of the Year/PGA Gateway section in 1991 and 1993.

GOLF COURSE NEWS



The Rees Jones-designed Falcon's Fire GC in Kissimmee, Fla. is one of 17 Western Golf clients.

Western Golf adds acquisition component

By PETER BLAIS

SCOTTSDALE, Ariz. — After 10 years managing courses for others, Western Golf Properties Inc. hopes to begin buying facilities this year.

"Our goal is to acquire courses over the next five years," said Western Golf President Joe Black, who founded the company 10 years ago. "We don't have a specific number in mind."

"We had intended to begin acquiring courses earlier. But the market was getting turned upside down when we first got in. We couldn't financially justify buying. A course must be able to service its debt. We're finally starting to see some good deals out there again."

Black will bring almost 40 years in the golf business and 30 years of management experience to that first acquisition.



Joe Black

Black joined the PGA Tour in 1955. When his playing days were over, he moved to Club Corporation of

'A course must be able to service its debt. We're finally starting to see some good deals out there again.'

— Joe Black

America, where he served as company vice president and golf professional at Brookhaven Country Club in Dallas from 1964 through 1985. He is former president of the Professional Golfers Association of America, tournament director of the PGA Tour and chairman for the Ryder Cup, PGA Championship and PGA Senior Championship.

Western Golf has 17 clients, including such widely known layouts as Pelican Hills Golf Club in Newport Beach, Calif., voted the "Best New Resort Course for 1992" by *Golf Digest* and Desert Highlands Golf Club in Scottsdale, Ariz., site of the first two

Continued on page 57

Marketing Idea of the Month

Attacking weekdays with killer promotions

By PETER BLAIS

PALM HARBOR, Fla. — Thunder showers and empty golf courses — sure signs of summer in west Florida.

While club owners can do little about the weather, there is something they can do about the lack of play at their facilities, according to Gregg Gagliardi, general manager of Lansbrook Golf Club.

Here are a couple of ideas that increased business significantly last summer at this suburban Tampa public layout.

• *Delta Airlines Terrific Thursdays*. Every Thursday during July and August, a tourney atmosphere took over at Lansbrook.



Gregg Gagliardi

Anyone paying the \$28 greens fee competed in a half-dozen special events — closest to the pin, longest drive, closest drive to the center line, longest putt and other contests frequently held



The 10th green at Lansbrook Golf Club soaks up the sunshine outside Tampa, Fla. This Lane Marshall design was renovated by Denis Griffiths in 1990. It features water on 16 holes.

during tournaments.

Smaller prizes were awarded for most contests — a sleeve of balls, golf shirt, cap. The top prize was a weekend for two at a nearby beach hotel.

At the end of August, everyone who had played on a Terrific Thursday was eligible for a grand prize drawing — an all-expense-paid trip for two for the final weekend series of the year pitting the Toronto Blue Jays against the New York Yankees in Toronto.

The result? Thursday rounds increased 67 percent, up from an average of 113 in August 1992 to 189 in August 1993.

The cost? "That's the beauty of it,"

CMAA tackles voter registration in San Antonio

Three such bylaws defeated; Shulz assumes presidency

By PETER BLAIS

SAN ANTONIO, Texas — Like their brethren in the superintendents association, Club Managers Association of America (CMAA) members had a bit of a bylaw amendment flap of their own at February's annual meeting.

At issue was whether to automatically mail ballots for the election of officers, directors and bylaw amendments to all eligible voting CMAA members, whether they requested ballots or not.

The reasoning behind the proposed change was that more than the approximately 50 percent of eligible voters who traditionally cast ballots would do so if the process were made easier.

For the past two years, members could either vote at the annual meeting (about a third of voting-eligible members generally attend) or by requesting a written voting authorization allowing them to vote by mail if they could not attend.

The amendment would have required CMAA staff to automatically mail out ballots 60 days before the annual meeting to all eligible voters.

The board of directors did not support the three proposed bylaw amendments that would have made the automatic mailings possible. One board candidate stated during the opening business session that he publicly rejected the proposals even though it could have cost him votes.

Voting responsibly required research and commitment to the organization, he argued. Automatic mailing of ballots worked against that, he added.

Apparently the eligible voters who took part in this year's election agreed and voted

Continued on page 50

Gagliardi said. "It didn't cost us a cent."

The grand prize came courtesy of Blue Jay pitcher Mel Stottlemyre, Delta Airlines and Hilton Hotels. The weekend beach getaways were donated by the local hotels.

Stottlemyre is a friend of Gagliardi's and donated the baseball tickets.

Delta came through with the free airfare in exchange for the publicity generated by having its name included in the special promotion.

Hilton and the beach hotels provided rooms and meals in exchange for having their establishments mentioned during the promotional radio ads that ran frequently

Continued on page 51

Disabled Golfers Association taps board members

The Association of Disabled American Golfers (ADAG) has expanded its board. Appointed to one-year terms are Gary M. Robb, Robert D. Ochs, and Warren Simmons.

Robb is director of Indiana University's Center for Outdoor Education and Leadership Training, Bradford Woods and directs the National Center on Accessibility.

Ochs is senior VP and general counsel for the St. Andrews Corp., a golf course management consulting group. An attorney for 25 years, Ochs served as general counsel and senior director of communications for the GCSAA.

Simmons is immediate past president of the International Association of Golf Administrators and currently serves as the executive director of the Colorado Golf Association.

... The second ADAG national tournament will be conducted again at Fox Hollow at Lakewood Golf Course in Lakewood, Colo., on Aug. 15 and 16. A full field is expected in 1994, and entries are available on a "first registered" basis. For more information, contact Fox Hollow at 303-220-0921.

CMAA meeting

Continued from page 49

down the three bylaw amendments. They also rejected a fourth that would have allowed members who originally voted by absentee ballot prior to the annual meeting to recast their ballots if they eventually attended the conference.

... On the officer and election front, William Schulz of Houston Country Club was elected president and Norman Spitzig of Oak Ridge Country Club in Hopkins, Minn., vice president. Both ran unopposed.

In the race for secretary/treasurer, George Carroll of Town & Country Club in St. Paul, Minn., defeated Randall Gudanowski of Indian Trail Club in Franklin Lakes, N.J.

Newly elected to the board of directors were Dennis Ahearn of Sara Bay Country Club in Sarasota, Fla., Warren Arseneaux of Victoria (Texas) Country Club, and Henry Waddington of Piedmont Driving Club in Atlanta.

Joining them on the board will be Immediate Past President Richard Kolasa, Thomas Anderson, Gudanowski, Edward Henderson, John Jordan, W.H. "Bill" Kendall and Paul K. Skelton.

HURLEY LEAVES NCA

WASHINGTON, D.C.—Gerald F. Hurley has joined Club Professionals Search Consultants (CPSC) as vice president. CPSC



Gerald Hurley

provides executive search and consulting services to the private club industry. Hurley has the past 19 years

served as executive vice president of the National Club Association, based here.

NCA publishes three self-help books for club officials

WASHINGTON, D.C. — The National Club Association has announced the release of its newest self-help publication for club officials, entitled *Search, Selection and Termination: The Decision-Maker's Guide to Employment Issues*.

This new handbook provides advice on pre-employment testing, interviewing techniques, reference-checking, employment contracts, employment at will, and disciplinary procedures. The guide also contains a checklist for complying with the immigration law and guidelines on how to avoid illegal interview questions. The member price is \$25; nonmembers pay \$40.

Two other self-help titles and one research

report, covering board preparedness, OSHA compliance issues, and operations, have also been made available in an effort to serve a broader section of the private club community:

- *A Board Member's Guide to Director Orientations* (\$25 members, \$40 nonmembers)

- *The Model Hazard Communications Program*

- *NCA's Club Operations Survey*

For more information on the content of these publications, contact Senior Communications Manager Mary Barnes Embody. To order, contact Kathleen Scott, member services department, at 202-625-2080.

Choose Bayleton this year for the same

CON

reason everyone chose it last year.

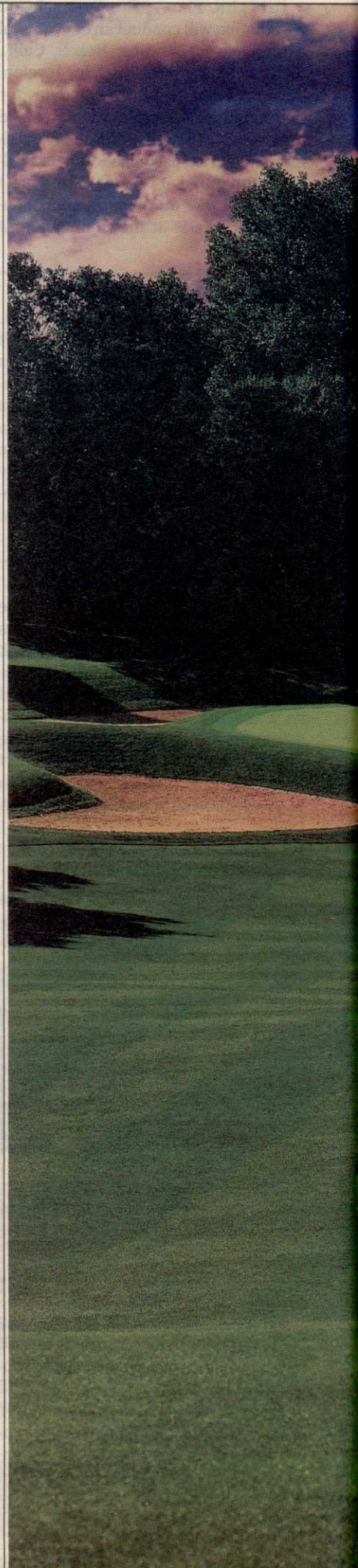
SIS

And the year before that. And the year

TEN

before that. And the year before that.

CY



Record turnout for NGCOA event

By PETER BLAIS

DALLAS — The National Golf Course Owners Association Annual Conference enjoyed its largest-ever attendance here last month. The 280 attendees also gave the four-day event the highest rating ever attained at the NGCOA's yearly gathering, according to association Executive Director Michael Hughes.

Among the featured speakers at the 20 educational sessions were Club Corporation of America Vice President of Marketing Jerry Gelinas; former PGA Tour Chief

Executive Officer and TPC Chief Operating Officer Mark Barrett; Baylor University professor Nancy Upton; and Palmer Golf Management President Peter Nanula.

New officers were elected including President Jim Scott of Gull View Lake Golf Club, Augusta, Mich.; Vice President Cliff Rampy of Treeline Golf Club, Tomball, Texas; Treasurer Jerry Hollingsworth of Singing Hills Country Club, El Cajon, Calif.; and Secretary Chuck Bennell of Tam O'Shanter Golf Club in Canton, Ohio.

The highlight was Club Corpo-

ration International Chairman Robert Dedman's acceptance of the association's Award of Merit.

Dedman encouraged course owners to strive for excellence, but never lose their sense of humor. "The greatest thing about laughter is that the more you give, the more you have left for yourself," said Dedman, who noted the need for a strong course owners' association.

"The superintendents, club managers, architects and golf pros all have their own associations," the CCI executive said. "Yet they all work for the course owner. Owners need to know about those disciplines, but have special prob-

lems of their own — taxes, employer/employee relations and interest rates, for example."

All too often in business, people believe someone has to lose in order for someone else to win, Dedman said.

"Competitive sports and cards are the only places I know of where you have to have a winner and a loser," Dedman said. "People should measure success in life by the number of win-win situations they create. If you don't create win-win situations with your customers, employees and family, you won't enjoy much loyalty or success in life."

Marketing Idea of the Month: Lansbrook GC

Continued from page 49

from Sunday through Wednesday.

The radio station provided Lansbrook free advertising time in exchange for golf passes it gave away during the station's own promotions.

"We're looking forward to doing it again this summer," Gagliardi said.

• *Cadillac Week.* Gagliardi calculates this promotion generated \$25,000 in advertising for Lansbrook at little or no cost.

In cooperation with a local Cadillac dealer, Lansbrook offered a free round of golf to anyone who test drove one of the dealer's luxury cars.

The club also set up several of its pros in the dealer's showroom with television cameras and a putting green. The instructors provided potential customers a free video swing analysis and putting tips.

Lansbrook eventually provided 150 free rounds of golf to Cadillac customers. Test drivers were encouraged to bring along guests by providing them with \$5 discount coupons. The only stipulation was that the free and discounted rounds be played by the end of November, the start of the busy season at Lansbrook.

"They always brought people with them," Gagliardi said of the test drivers.

But more important than the extra play was the free advertising Lansbrook received. The Cadillac dealer spent \$15,000 on television, \$7,500 in direct mail and \$4,500 in the *St. Petersburg Times* promoting the event. Lansbrook was mentioned in each advertising spot and direct-mail piece.

"The cost of just producing a television ad is about \$2,000, let alone the cost of running it. We could never afford that. But this way we had our name mentioned on television without those costs," Gagliardi said.

Cadillac is a major sponsor of the Senior and PGA Tours. The affiliation with the luxury car manufacturer was an added benefit, Gagliardi said.

"I've tried to upgrade the image of Lansbrook since I arrived here in 1989," the Northeastern University graduate said. "Having the type of clientele Cadillac attracts play our course certainly helps."

The Cadillac dealer was so pleased with the promotion, he planned to offer it again in mid-February. This time he budgeted \$45,000 for advertising and direct mailing.

"It must have been a success because another car dealer approached us about doing a similar promotion," Gagliardi said.

Year after year, BAYLETON® fungicide has controlled the tough diseases. Like summer patch and dollar spot. Not to mention a broad spectrum of other turf diseases.

Plus, BAYLETON has provided excellent control of powdery mildew and rust on ornamentals.

That's why it's been a leading fungicide on the finest courses in the country for more than ten years.

As if that weren't enough, consider the fact that BAYLETON is systemic. Which translates into longer control.



Our new water soluble packets give you consistency in formulation and control.

Which is all good reason to treat your entire course with BAYLETON.

Especially your fairways, since it keeps your customers from tracking disease up to your tees and greens.

For more information, contact Miles Inc., Specialty Products, Box 4913, Kansas City, MO 64120. (800) 842-8020.

It may be the most consistently rewarding choice you make.



CIRCLE #148

Commentary

Lifetime tee times can be can of worms

By SCOTT MARLOWE

The City of Lake Worth has a problem which, considering all the uproar it has received, is taking on the controversial dimensions of a tax or utility rate hike.

The municipality granted, in effect, "lifetime" tee times to about 100 golfers during the 1980s. Now, other local golfers

Scott Marlowe is president of Golf Data International in Gulf Breeze, Fla.

are up in arms. "It's not fair," says Alvan Rikkola, representing the opposition citizens group. "It's a buddy-buddy system... Those people — who don't pay any more than anyone else — have those slots for life and can pass them on to whomever they choose."

Lake Worth Mayor Rodney Romano has joined the debate — along with the entire City Commission: "It doesn't sound fair. I want someone to justify this."

City Golf Director, Robert Metzler, explains the guaranteed tee times evolved when members of his staff used to post a starting sheet at 6 a.m. and were met by golfers who had been lining up for tee times at 5:30 a.m. The staff began posting the roster earlier and earlier, but people still got there — as early as 2:00 a.m. — to sign up for their favorite tee time.

Sometime around 1981, the City decided to grant preferred

Saturday morning tee times to the regular players when they discovered that it was consistently the same group of people who were camping out on the golf course's doorstep.

The interesting aspect of this dilemma is that preferred tee times are normally an aspect of private or semi-private golf course operations. Such clubs normally charge a membership fee, or Deposit on Membership Privileges (a relatively new practice which is becoming increasingly popular with golf facility developers and club members) for considerations

like premium starting times.

"It's unusual for municipal facilities to pursue a policy that competes with the private business sector," comments Tony Marlowe, a former president of the Middle-Atlantic Section of the PGA. "I don't think that a municipal authority should institute any program which favors specific individuals."

Marlowe may have a point. It's common knowledge that public golf courses in the New York City area routinely see golfing patrons line up in the wee hours of the morning to secure coveted tee times. A "first-come, first-served" starting time policy is a matter of tradition in municipal golf course management.

"The City's policy may not be defensible," observes Bill Strausbaugh, Jr., a club relations expert, "especially when there is technology like automated tee time systems readily available. It seems to me that this would be a much more equitable solution to their problem."

An automated tee time system is a computer which the golfer dials up, at a golf course or service bureau, on a touch-tone telephone. He or she can book a starting time by keying in numbers on the telephone key pad. Tee times booked in this way are usually guaranteed to a major credit card. These services are typically well received in areas where golf is in high demand.

Similar technology is used in the airline industry to book travel reservations and at some banks where depositors can call in to check account balances and pay their bills.

However Lake Worth resolves its problem, the City is certain to wind up with continued friction. According to Vice Mayor, Daniel Shepard: "Maybe longevity has some merit. No matter what we do, we're not going to satisfy everyone."

With the right combination of Tee Time[®] plus Dimension[®], your problems are solved.



Solving the puzzle of weed problems on a golf course requires the right combination of professional experience, proven skill and reliable product performance. With The Andersons' selection of mini-granular Tee Time fertilizers with new DIMENSION herbicide, you've got the formulas you need to keep your course in peak, weed-free condition.

An early, pre-emergent application of Tee Time fertilizer with DIMENSION can set up an effective, season-long defense against weed growth, while simultaneously delivering important turf nutrients.



And with The Andersons' proprietary mini-granular sizing process, you get product uniformity that provides:

- "No-stick" uniform application
- Superior ballistic characteristics for efficient distribution

- Reduced dustiness
- Excellent flexibility for a wide range of rate settings

Find out more about Tee Time fertilizers with

DIMENSION and how you can keep your turf growing healthy without letting weeds cause you problems.

the professional's partner[®]
The Andersons
1-800-225-ANDY

The Andersons.
Uniformly the best in the business.

©DIMENSION is a registered trademark of Monsanto Company
©Tee Time, ©1993 The Andersons

LinksCorp adds Alabama course to portfolio

NORTHLAND, Ill. — Links Corp. has added two additional courses to its portfolio: The Glenlakes Golf Club near Gulf Shores, Ala., and Hickory Hill Golf Club near Biloxi, Miss.

Links Corp. officials indicated the firm plans to immediately add 9 holes to Glenlakes and to significantly upgrade the facilities at Hickory Hill. Glenlakes and Hickory Hill expand the Links Corp. stable of courses to six.

LinksCorp is owned by management and three venture capital firms; Batterson, Johnson & Wang, and William Blair Venture Partners of Chicago and Norwest Venture Capital of Minneapolis.

GOLF COURSE NEWS

Women in Golf Summit honors AGC's Karen Peek

SANTA MONICA, Calif. — Karen Peek, general manager of American Golf Corp.'s (AGC) Rackham Golf Course in Huntington Woods, Mich., has received Women in Golf Summit honors for outstanding contributions to women's golf.

During a formal ceremony, Women in Golf Summit members commended Peek for being "a role model and an inspiration to women amateur golfers, women golf professionals and women executives."

To be considered for Women in Golf Summit honors, a woman must achieve professional status through the Ladies Professional Golf Association, make significant long-term contributions which further the game of women's golf, and be nominated by her peers. Women in Golf then reviews the nominees and selects those individuals it feels are most worthy of recognition. This year, Peek and nine others, including women's golf legends Nancy Lopez, Carol Mann and Patty Berg, received honors.

Peek began golfing at the age of 12 in a junior golf program sponsored by the city of Detroit and the *Detroit Free Press*. Following

graduation from the University of Michigan in 1978, she turned professional and played on the Women's Professional Golf Tournament mini-tour. In 1983, Peek joined the LPGA and, in only four short years, became a Class A member, which is the association's highest designation.

In 1988, Peek joined AGC and became a head professional at Rackham Golf Course which, at that time, made her one of only three women head golf club professionals in the state. Over the next five years, she became a co-

founder of The Women's Golf Academy; co-created a comprehensive group instruction program that addresses the needs of women golfers at all skills levels; was elected area representative and treasurer for the Midwest section of the Ladies Professional Golf Association; and coordinated and instructed various junior golf programs throughout the country. In addition, Peek made Rackham Golf Course one of the most celebrated success stories in AGC history as its general manager.

AGC, Elmendorff to manage Sugar Creek

SUGAR LAND, Texas — American Golf Corp. (AGC) has acquired a 10-year lease for the management of Sugar Creek Country Club from the city of Sugar Land.

It was also announced that Dave Elmendorff, an All-American football and baseball player at Texas A&M University (1967-1971), former Los Angeles Rams safety (1971-1980), and current football commentator and announcer for the Texas A&M Network, has

been named general manager of the club. Elmendorff was previously general manager of Walden at Lake Houston Country Club.

Sugar Creek's 27-hole layout consists of three nine-hole golf courses named Robert, Trent and Jones, after the internationally renowned golf course designer. The three nine-hole courses have a par of 36 and a slope, depending on the course combination, ranging from 114-119.

Oregon managers put it in writing

ALTURAS, Ore. — Future management of Arrowhead Golf Course here may rest on some heavy reading.

The two three-year contracts offered Gary and Lynn McClellan, who have managed the course the past seven years, each are 10 pages.

The McClellans, who last year had an eight-month, seven-day-a-week contract for a salary of \$18,800, will have a "reasonable period of time" to accept or reject the contracts.

The successful bidder must obtain a city business license, maintain an adequate inventory of golf equipment with any reasonable variety of golf equipment for purchase or rent, operate the driving range and make daily reports and deliveries of financial transactions.

Huie new DOG at Fossil Creek

FORT WORTH, Texas — Steve Huie has been named director of golf for The Golf Club at Fossil Creek in Ft. Worth, Texas.

Huie had held a similar position at the Griffin Gate Resort in Lexington, Ky. Huie is a five-time recipient of the Kentucky PGA Resort Merchandiser of the Year award and 1993 Kentucky PGA Horton Smith Award winner.

A CAT WILL ALWAYS LAND ON ITS FEET.

IF YOU WASH YOUR CAR, IT WILL RAIN.

TOAST WILL ALWAYS FALL BUTTERED-SIDE DOWN.

Subdue

USE SUBDUE AND YOU'LL ELIMINATE PYTHIUM.

Who's got the buying power?

Continued from page 1

first came to E-Z-GO," said Ron Skenes, the firm's communications manager. "If our sales representative has done his homework, he'll know who the decision-makers are. But it's very fragmented."

Skenes explained that an exit poll conducted after the 1993 GC-SAA show indicated 26 percent of superintendents claim they make the golf car buying decisions. A similar survey at the '93 PGA Merchandise Show indicated 25 percent of the professionals claim they

purchase the fleets.

"That leaves the rest of the decision-making to a combination of manager, owner and committees at private clubs," said Skenes.

"It's a mixture," agreed Melex's Jim Moran. "Sometimes it's the club manager, sometimes the superintendent and sometimes the pro. Then you have the board of directors and owners. They may make the decision themselves, seek input from one, or rely on the advice of all three."

While there are no hard-and-fast rules, the identity of the deci-

sion-maker generally varies by region, according to manufacturer representatives.

"In the Midwest, superintendents tend to be more involved in that type of decision," said Skenes. Why?

"I'm not sure," he said.

Ernie Stock, ClubCar's Southwest regional sales manager, has a theory: "With the strong influence of turf schools like Penn State and Ohio State, superintendents in the Northeast and Midwest often have a big influence in purchasing all rolling stock."

"In the Sunbelt, it's more likely to be the club manager or pro.

Then you have the buying groups, like American Golf Corp. and ClubCorp. Those decisions are made at corporate headquarters. At the older, more-established clubs, it's often a committee decision made by the board with input from the pro."

Carl Schenken, a San Antonio Yamaha distributor, basically agreed with Stock.

"They've embraced the true general manager concept more in the North," Schenken said. "There, the manager and the superintendent usually make the decision. In the South, the pros and board of directors seem to

get more involved."

Pros are generally losing some clout, at least in Texas, according to Rodney Schlipf, a sales representative in E-Z-GO's Houston operation.

"Boards seem to be relying on the recommendation of the general manager rather than the pro in our area," he said. "I like dealing with superintendents because they generally have complete control over their utility vehicles. As for golf cars, in the Houston area, anyway, I'd say general managers make 60 percent of the decisions, pros 35 percent and superintendents 5 percent."

Todd Sauey, president of Columbia ParCar sees the market as segmented, but fairly regimented within each classification. Excluding fleet purchases — where management companies make bulk purchases — Sauey believes the market breaks down this way:

Owners generally make the golf car buying decisions at daily-fee courses, with input from the pro and superintendent. At private country clubs, the pro or club manager advises the green committee, which usually has final say. At resort facilities, where the top executives are not as heavily involved in the golf operation, superintendents and professionals share purchasing power. At municipal courses, pros have more consultative power — but the city controller signs off on everything.

While attending all three trade shows is time-consuming and costly, the manufacturers all expect to continue doing so.

"We want to show our support for each group," Melex's Moran explained.

"I tell our salespeople to never ignore the superintendent, club manager or pro. If two of them have left when the club's about to make a buying decision, you still have a friend in the third."

Dos Pueblos

Continued from page 3

tions allow a golf course on agriculturally zoned land.

"If the Commission denied the permit in April, we'd have to decide whether to litigate or seek a rezoning. Either way, we are committed to the project."

Local government officials see the course helping the environment, Hollis said. Aging petroleum equipment would be removed, the site cleaned and native grasses planted wherever possible, he explained.

The ARCO representative noted the course will use wastewater from a \$22 million reclamation facility expected to operate at no more than 25 percent of capacity when it opens later this year.

As for the course construction itself, Coore and Crenshaw are noted for minimal earthmoving. Approximately 100,000 cubic yards will be relocated at Dos Pueblos.

"There will be a short-term dust emission at worst," Hollis said.

GOLF COURSE NEWS



For The Finest Quality, Weed-Free Turfgrass...

RegalStar®

HAS NO EQUAL. PERIOD!

Hundreds of superintendents from coast to coast say "nothing can match the results." Nothing gives them the quality turfgrass of RegalStar® pre-emerge herbicide.

A single application provides total

control of noxious annual grasses and weeds while supplying 100% of the slow-release nitrogen needed for the entire growing season. Until you've used RegalStar®, you haven't used the best.

Call Us!

1-800-621-5208

We'll tell you how it works and why it works so well. We'll also give you the names of some superintendents in your area who are using it, though you probably already know.



P.O. Box 900 • Alpharetta, GA 30239 • 404-475-4837

Will U.S. follow California's emissions lead?

By HAL PHILLIPS

SACRAMENTO, Calif. — The state of California is generally seen as America's bellwether. As California goes — economically, culturally, politically — so goes the country.

In light of the recent ruling from the California Air Resource Board (CARB) — forbidding the sale of gas-powered golf cars after Jan. 1, 1997 — do golf car manufacturers see other states or federal agencies following suit?

"First of all, the amount of emissions a golf car produces is insignificant," said Todd Sauey, president of Columbia Par Car. "But I don't think the rest of the country will pursue similar measures that quickly. They won't change as fast as automotive emission standards, for example."

"I think other states will see how California fares and phase restrictions in over the next 20 years."

Ron Skenes of E-Z-GO believes most of the country will let the market decide between gas- and electric-powered golf cars.

"It's up to the consumer," he said. "But we're watching the California situation very carefully. I'm not sure whether it's an indicator of things to come. It's too early to tell."

from the National Golf Car Manufacturers Association (NGCMA) — received a two-year reprieve.

The ARB staff has ruled that gas-powered cars not be sold in California any time after Jan. 1, 1997. However, all gas-powered cars in use at that time will be grandfathered for the duration of their lifespans.

The ban on gas-powered golf car sales after 1996 is only valid in

Continued on page 57

'If 1997 is the magic year, so be it. But I don't necessarily think California will set the tone on this issue.'

— Joseph Stahl, VP
Yamaha Golf Car
Division

Joseph Stahl, vice president of Yamaha's Golf Car Division, concurs.

"We're all looking at ways to make the electrics perform to

higher standards," said Stahl. "If it's mandated by the market or the government, what's the difference? We have to meet the needs at the golf level and the federal level."

"If 1997 is the magic year, so be it. But I don't necessarily think California will set the tone on this issue. I think there may be other urban areas that explore standards similar to those laid down by CARB, but the EPA won't follow CARB."

"If it does, then we'll have to respond with the kind of product improvement — with electric cars — that makes the situation work."



YOU'VE COME A LONG WAY, BABY

President Dwight D. Eisenhower provides a bit of historical perspective on the evolution of golf cars. In photo below, we see another relic, circa 1947.

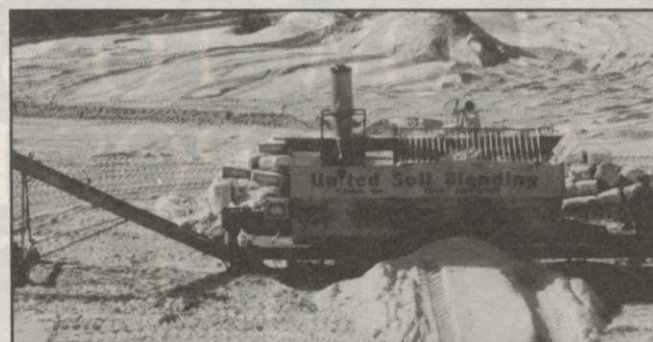


California Air Resource Board bans sale of gas-powered golf cars after Jan. 1, 1997

By HAL PHILLIPS

SACRAMENTO, Calif. — The state Air Resource Board (ARB) has accepted the recommendation of its staff, mandating an eventual transition from gas- to electric-powered golf cars in California.

Under a previous proposal, gas-powered golf cars were to be banned from sale in California beginning Jan. 1, 1995. But the golf car industry — after lobbying



UNITED SOIL BLENDERS, INC.

United Soil Blenders, Inc. offers these advantages to its customers:

- Highest quality blending
- Constant on-site monitoring of mixing operation
- Continual percolation testing to ensure USGA specs
- Complete turn-key pricing
- LOWEST PRICING — including loader and all labor

Soil blending is a must in the high-tech business of golf course construction. And United Soil Blenders, Inc. strives for excellence in every green construction project we undertake.

For the Best greens ever, insist on United Soil Blenders, Inc.

(912) 386-1970

P.O. Box 1325, Tifton, GA 31793
CIRCLE #153



Pontiac Country Club
Waterford, MI

C-LOC® Developed and introduced the first vinyl plastic interlocking panels for soil retention applications

Panel Features:

- Attractive appearance
- Ease of installation
- Proven performance in any natural environment

To find out more about C-LOC, call or write today:

C-LOC® Retention Systems, Inc.
P.O. Box 180283 • Utica, MI 48318
(313) 731-9511 • FAX (313) 731-9516

CIRCLE #152

Put A Ranger In Every Cart!



CARTROL
THE GOLF CART CONTROL SYSTEM™

This amazing new system controls golf cart traffic and eliminates confrontation with cart patrons. The system helps prevent soil compaction and turf crushing problems and it maintains play quality around the greens. Cartrol also provides security for the course storage area.

Call the CARTROL Company for more information
1-800-793-CART

Cartrol Enterprises, Inc., 602 Brandywine Parkway, West Chester, PA 19380

© 1992 Cartrol Enterprises, Inc.

CIRCLE #154

Club Car reports brighter first quarter

AUGUSTA, Ga. — A charge stemming from an early retirement of debt has brightened the first-quarter performance of Club Car Inc., which had its first public stock offering in October of 1993.

Club Car has reported net sales of \$32.7 million for the first quarter of fiscal 1994, which ended Dec. 26, 1993. This represents a \$6 million, or 22.3 percent increase over net sales of \$26.7 million for the first quarter of fiscal 1993, according to George Inman, Club Car president and CEO.

Operating income for the first

quarter was \$1.9 million, which represents a \$500,000 increase (or 39.8 percent) over operating income of \$1.4 million for the first quarter of fiscal 1993.

The loss for the first quarter of fiscal 1994 — before a substantial charge due to the early retirement of debt resulting from the initial public offering — was \$100,000, or \$.01 per share, said Inman. This compares to a net loss of \$1.2 million or \$.21 per share for the same quarter a year ago. Including the charge, the net loss for the first quarter of fiscal 1994 was \$5 mil-

lion, or \$.62 per share.

"We are extremely pleased with the first quarter results," said Inman. "The company historically experiences net losses in the first quarter due to the seasonality of the golf car business. However, excluding an extraordinary charge due to the early retirement of debt, we reported significantly improved performance compared to the prior year."

During the first quarter of fiscal 1994, Club Car raised net proceeds in the public offering of \$54 million, all of which were used as

part of the firm's refinancing plan to repurchase the \$63.9 million principal amount of the outstanding 14.5 percent Senior Notes, which were tendered in response to the company's Tender offer.

Inman said Club Car intends to repurchase the remaining \$19.9 million principal amount of the Senior Notes either through open market purchases or by exercising its option to redeem the Senior Notes on April 1. Club Car will finance these purchases through additional borrowing under its \$42 million term loan facility, Inman said. The company also has a \$30 million revolving credit facility for working capital needs.

Tires, rims changing; alliances stay constant

While they aren't exactly set in stone, the relationships between golf car manufacturers and golf car tire manufacturers are fairly static.

Melex and E-Z-GO both patronize Carlisle Tire and Rubber Co., while Club Car contracts mainly with Goodyear Tire and Rubber Co. Yamaha deals predominantly with Dico Tire Inc., with a touch of Goodyear thrown in.

"I don't think tires have been a significant buyer issue," said Joe Stahl of Yamaha. "And considering today's quality standards, that makes sense."

One departure from the norm, however, took place during the 1994 GCSAA Show and Conference in Dallas, where Melex displayed the industry's first composite rim and wheel covers, manufactured by Carlisle.

"Our rim will be made of plastic," said Brian Taylor of Melex. "We found the plastic is equal to steel in terms of performance. There's no rust, obviously. And it's lighter, meaning less compaction in turf areas."

The real benefits behind the composite rim, according to Taylor, are its more precise manufacturing capabilities.

"They can be manufactured far more uniformly," explained Joe Sheely of Carlisle Tire and Rubber. "There will be far less chance of leaks and virtually no deviation when it comes to the manufacturing process."

...

With the nationwide move toward cart paths, golf car and tire manufacturers have different views on the "wear & tear" their products might endure.

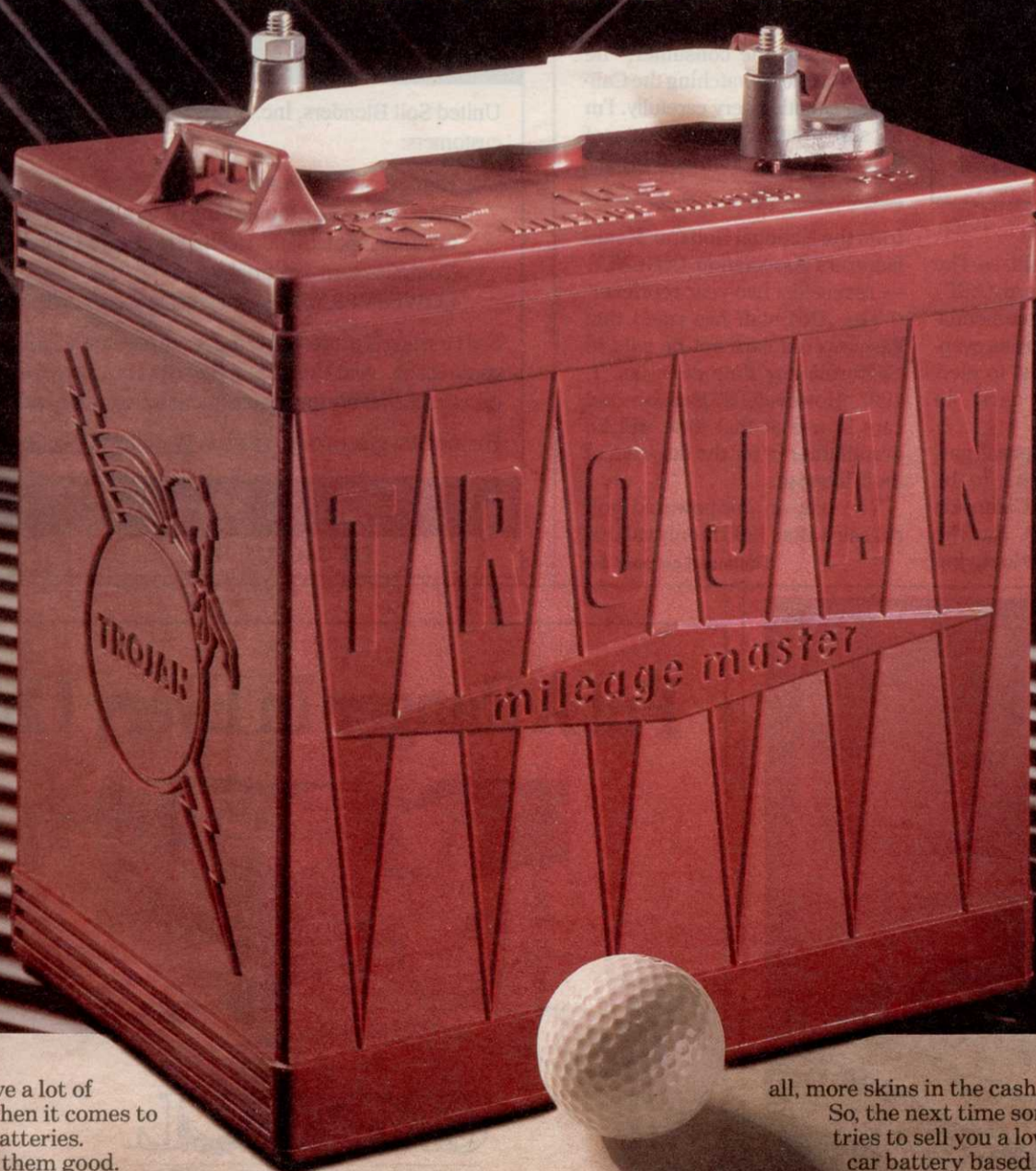
"Cart paths are probably a bit more abusive to a tire," said Carlisle's Sheely. "But I don't think it will prevent the tire from wearing properly. We test tires on four or five different golf courses, on all sorts of terrain. We haven't noticed a big difference in wear patterns."

Stahl: "Everybody acknowledges that cart paths are on their way in and you'll never get the same tire life on a hard surface. It can't be good for the tire."

Ron Skenes of E-Z-GO: "Our tires are a highway grade, compound rubber, designed to deal with paved situations. I would imagine a cart path would tend to add longevity to the vehicle in general."

Taylor: "You can't run over a root on a cart path, but that benefits the vehicle. If the cars last longer, the tires might not."

HOW TO SEPARATE THE PROS FROM THE AMATEURS



You have a lot of choices when it comes to golf car batteries. Not all of them good.

So why not simplify your life? Why not pick the battery that's first with the pros? The legendary T-105 from Trojan Battery Company.

You can't miss it. We've put it in our distinctive maroon battery case. And made it a terrific value for the dollar.

The T-105 uses an exclusive technology called the multi-rib separator. This translates to benefits like less maintenance, lower recharging bills, longer battery life. And the best benefit of

all, more skins in the cash drawer.

So, the next time somebody tries to sell you a low cost golf car battery based on what a great "value" it is, remember this. There's only one value that counts: How long your cars are out there

driving your customers down your fairways.

We know picking the right golf club is hard. That's why we make picking the right golf car battery a gimme.

In California, call 310-946-8381.

In Georgia, call 404-981-8674.

Or call toll free 800-423-6569.



Trojan

The Better Battery

Western Golf Properties

Continued from page 49

Skins Games.

Among the newest projects are Lightning W Ranch, an 18-hole private club set to open later this year; El Dorado Hills (Calif.) Country Club, a 36-hole private club that starts construction in March; and Green Bay (Wis.) Country Club, a planned Dick Nugent design.

The company recently ventured into the Asia-Pacific market, inking consulting and management agreements with Friendship Meadows Country Club in Bangkok, Thailand, and Rainbow Hills Golf, Leisure and Resort in Jakarta, Indonesia.

"We want to be perceived as one of the best quality operators in the country and overseas," Black said. "We try to provide customers a golf experience rather than just a round of golf."

Western Golf offers complete management (including course maintenance) and consulting services.

"We try to make Tour conditions the norm at our facilities. And the superintendents are a very important part of that," Black said. "They share information and expertise and usually answer to the director of golf at each facility."

Ultimately, however, Black and Vice President Mark Kizziar are responsible for each property. Like Black, Kizziar was a head golf professional (Rolling Hills Country Club in Tulsa, Okla., and Crestwood Country Club in Sand Springs, Okla.) and active in the Professional Golfers Association of America, which he served as president in 1983-84.

Two other executives figuring prominently in Western Golf operations are Project Development Manager David Goff and Director of Marketing Kathy Bryant. Goff is a former financial consultant to Dick Nugent Associates. His responsibilities include feasibility analysis of new projects and acquisition, financial

analysis, evaluating and structuring new developments and pursuing equity participation in new developments.

Bryant has 22 years experience in the hospitality industry, including regional sales director at Granada Royale Homotels (now Embassy Suites), national sales manager with Ramada Inns, Inc. and director of membership at CCA's Fairlane Club in Dearborn, Mich., where she earned CCA's Membership Director of the Year (1979).

One of the more novel membership deals Bryant put together was at Pelican Hill's driving range. The company made 50 memberships available at \$900 a year last summer. They were sold out in less than three weeks.

"We did it for public relations reasons originally," Black said. "We simply couldn't accommodate everyone who wanted to play the course, so we decided to open the range. We'd like to sell more. The demand is there. But we'll wait until the end of this summer before deciding if there is room."

Following is a list of Western Golf Properties Inc.'s current contracts:

The City of Daytona Beach (Fla.) LPGA Headquarters; Desert Highlands Golf Club, and The Golf Club at Desert Mountain, Scottsdale, Ariz.

Del Mar Resort and Golf Club, Del Mar, Calif.; Pelican Hill Golf Club, Newport Coast, Calif.

Las Campanas, Santa Fe, N.M.; World Woods Golf Club, Homosassa, Fla.; Falcon's Fire Golf Club, Kissimmee, Fla.;

Lodestar Golf Club, Mammoth Lakes, Calif.; Verde Valley Ranch, Clarksdale, Ariz.

Wild Wing Plantation, Myrtle Beach, S.C.; Woods Valley Ranch, Valley Center, Calif.

Lightning W Ranch, Carson City, Nev.; El Dorado Hills Country Club, El Dorado Hills, Calif.; Green Bay (Wis.) Country Club; Rainbow Hills Golf, Leisure and Resort, Jakarta, Indonesia; Friendship Meadows Country Club, Bangkok, Thailand.

EVERY MORNING, THERE ARE TWO THINGS YOU CAN COUNT ON: THE SUN WILL COME UP. YOUR CARRYALL WILL GO TO WORK. THAT'S RELIABILITY. [ACCORDING TO A RECENT SURVEY OF GOLF COURSE SUPERINTENDENTS, THE CARRYALL BY CLUB CAR® IS THE MOST RELIABLE LIGHTWEIGHT TURF UTILITY VEHICLE ON THE MARKET.*] AND NOW THAT OUR CARRYALL II PLUS HAS A NEW, MORE POWERFUL 11-HP, 4-CYCLE ENGINE, IT CAN ONLY GET BETTER. FOR PERFORMANCE, SERVICE, AND SUPPORT, RELY ON **CARRYALL**. CALL 1-800-643-1010 AND **DRIVE IT TO WORK.**

CARB ruling

Continued from page 55

areas of California that have not met federal ozone level requirements. Most urban areas have not complied, and 90 percent of the state's population resides in urban areas, according to ARB spokesman Jerry Martin.

However, Martin added that the San Francisco area is very close to meeting federal ozone requirements, meaning the post-1996 ban on gas-powered golf cars would not be enforced in the Bay area.

Northern California cities like Eureka and Crescent City are already in compliance, Martin said.



*Based on research conducted by the Center for Golf Course Management, a subsidiary of the Golf Course Superintendents Association of America.

CIRCLE #156



"WITH DACONIL 2787®, WE'VE HAD NO PROBLEM WITH LEAF SPOT."



*Dave Southard,
Superintendent,
Bellevue
Country Club
Syracuse, New York*

Spring comes late in central New York, and Dave Southard, course superintendent at the Bellevue Country Club in Syracuse, knows he can count on plenty of moisture and cool temperatures. "That means Leaf spot," Dave says. "Then we go right from Leaf spot to Dollar spot to Brown patch to Snow mold."

That's why, when the last snow melts in mid-April, Dave begins a season-long program of turf protection that centers on Daconil 2787® Flowable Fungicide from ISK Biotech Corporation.

Fairways, tees and greens

"I don't think we have more Leaf spot problems than other courses, but we do seem to have a longer time during which you have to control it," Dave explains. "We spray fairways, tees, and greens about every two weeks for a six- or seven-week period."

Bellevue Country Club is an 18-hole Donald Ross course, built in 1916. Much of its character comes from the course's rolling, woodsy terrain. In fact, the trees create some moisture problems on greens, tees and fairways.

"We're trying to thin out the trees a little, but we're really overplanted," Dave admits. "Many parts of the course are slow to dry out in the morning. Early or late in the year, when the sun is low in the sky, there are parts of the course that really don't get any sun at all. The trees cut down on air circulation, too. And that increases disease pressure."

"I always come back to Daconil."

You might say Daconil 2787 is the cornerstone of Dave's turf management program. While he sometimes uses other products, he always comes back to Daconil 2787 for dependable disease control, and to avoid resistance. As Dave puts it: "For 23 years, it's been one of the basic products I use. It's very cost-effective, and quite dependable."

Have you got a Daconil 2787 success story? Tell us about it. If we use your story in an ad, we'll donate \$100 to your favorite charity. Write Jackie Tengler, ISK Biotech Success Stories, 5885 Landerbrook Dr., Suite 215, Cleveland, OH 44124.

Always follow label directions carefully when using turf and ornamentals plant protection products.
® Registered trademark of ISK Biotech Corporation.

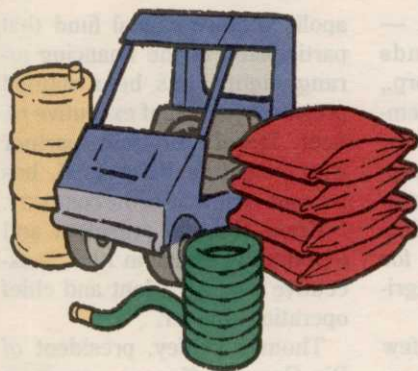


The cornerstone of your
turf management program.

CIRCLE #157



BRIEFS

TERRA INTERNATIONAL PROMOTES
FOUR FROM WITHIN

SIOUX CITY, Iowa — Terra International, Inc. has promoted Art DeLeon, Ray Miller, Burnie Baker and Pam Stephan to new positions within the company. DeLeon has been named director, energy procurement, while Miller has been promoted to director, chemical and fertilizer purchasing. Baker has been named fertilizer purchasing manager, and Stephan has been promoted to chemical purchasing manager.

CHANGES AT RISE BOARD

WASHINGTON, D.C. — The RISE (Responsible Industry for a Sound Environment) Governing Board has added three new members. Selected to represent DowElanco for a vacated term is Dick Holzschu, general manager of North American Specialty Products. Also named were Tommy Reeves, vice president of Oldham Chemical Co., Inc.; and Ron Fister, director of Specialty Sales for Sandoz Agro, Inc.

CONNOLLY JOINS JACKLINGOLF

James E. Connolly, a U.S. Golf Association agronomist in New England since 1988, has joined JacklinGolf as senior technical agronomist. The Washington State University graduate has worked as a superintendent in Oregon and Washington and in the seed, pesticide and equipment trade in the Pacific Northwest and Florida. He will work with customers to solve turfgrass needs.



James Connolly

RAINBIRD TAPS HIGH TECH

High Tech Golf has been named the exclusive Rain Bird Golf irrigation distributor for Los Angeles, San Bernardino, Santa Barbara and Ventura counties. High Tech Golf is a new distribution partnership created by two golf industry veterans, John Dixon, president of High Tech Irrigation in Indio, Ca., and Gard Crow, former Hunter Industries' Golf sales manager. High Tech Golf will sell Rain Bird sprinklers, valves and controllers, and will also carry a wide range of golf course irrigation equipment and maintenance supplies.



John Dixon



Gard Crow

Ransomes America shakes up
turf divisions; Aal steps down

By PETER BLAIS

MINNEAPOLIS, Minn. — Ransomes America Corp. has eliminated divisions and dismissed 100 employees in an effort to streamline operations, cut costs and become more competitive in the turf care industry.

The new organization has been reduced to two divisions, consumer and commercial. Ransomes formerly had four divisions — consumer, commercial international, commercial American and property (overseeing the company's vast, worldwide land holdings).

Leading the list of dismissed upper management personnel is former Ransomes America President Irv Aal, who left Jan. 27. Aal took over Ransomes America in 1991 shortly after Britain-based Ransomes Plc. purchased Cushman Inc. and its affiliates.

"Irv recognized the company's performance hadn't been as good as we'd hoped," said Commercial Group Chief Executive Peter G. Wilson.

"We're not reducing manufacturing capacity," assured Wilson, whose group includes the golf market. "We've simply reduced tiers of management in order to become more efficient."

Wilson said the streamlined company is still the only manufacturer of turf equipment with assembly facilities on both sides of the Atlantic Ocean. The commercial group's four plants are located in England, Lincoln, Neb., Johnson Creek, Wis., and Orville, Ohio.

The new arrangement allows those facilities to share engineering information and expertise, with Wilson orchestrating

Continued on page 62

ASIAN GOLF COURSE REPORT



Vietnam Vice Premier Nguyen Khanh christens the country's first driving range, at King's Island Golf Resort on Lake Dong Mo, outside Hanoi.

Another Asian market beckons

By PETER BLAIS

HO CHI MINH CITY, Vietnam — The lifting of a United States trade embargo will have little immediate impact on golf development here, but will make more investment capital available in the future, according to Asia-Pacific golf industry analysts, government officials and lenders.

Under a plan passed by the U.S. Congress in February, President Bill Clinton has eliminated virtually all restrictions on American developers doing business in Vietnam.

"Clinton's action will have very little effect on golf directly," said Al Furber of Robert Trent Jones II International's Singapore office, "as many of the good resort locations and other land packages have already been locked into a development package by entrepreneurs from countries without restrictions like the United States."

"The long-term effect of the U.S. action will hopefully be more investment, which will have a side effect for the leisure industry."

The country's first two courses — King's Island in Lake Dong Mo outside Hanoi and Song Be near Ho Chi Minh City — opened last summer. The Vietnamese government, which sees golf as key to the development

Continued on page 63



William Culpepper (clockwise from top left), George Ruschhaupt, and Roger Storey have left DowElanco to form SePro Corp.

Ex-DowElanco trio
forms SePro Corp.

INDIANAPOLIS — Three former DowElanco executives have formed a new company, SePro Corp., which will market four former DowElanco products to several specialized markets, including the golf course market.

Indianapolis-based SePro — which formally began operations Jan. 3, 1994 — has purchased from DowElanco A-Rest plant growth regulator, Sonar aquatic herbicide, and Pipron, a fungicide for the control of powdery mildew in greenhouses. SePro has also acquired exclusive distribution rights to market Rubigan EC fungicide.

"We realize the importance of these specialized markets and understand that, at times, large chemical manufacturers have been unable to focus on those niche markets outside the mainstream of their core business," said William Culpepper, SePro CEO and former director of

Continued on page 60



NEW PRODUCT OF THE MONTH

The Short-Cut greens mower is a motorless, hand-pushed product designed to handle smaller jobs — like putting greens — and stand in for motorized mowers in the shop. The Short-Cut was developed by the owners of Lowell Greens, a company which installs custom greens for home and commercial use. For more information, contact Dick Moultrie at 509-355-4560. For more new products, see page 65.

Nat'l Lime & Stone enters golf market

FINDLAY, Ohio — National Lime & Stone Co. (NLSC) is entering the pelletized limestone market with its new ECOpHRST product line, targeted at the professional turf and commercial markets.

ECOpHRST Pelletized Limestone — available in regular or min-sized dolomitic or calcium pellets — is designed to neutralize soil acidity and increase soil nutrient availability. It's pelletized for easy blending with fertilizer for simultaneous application, accord-

ing to Dave Ashworth, NLSC's newly appointed manager of ECOpHRST Agricultural products.

"The finer grinding aids dissipation and, therefore, plants react faster," said Ashworth.

In a related move, Ashworth appointed Brad Gwartz regional sales representative for ECOpHRST products. His sales responsibilities include accounts in Michigan, Ohio and Indiana.

For more information, contact Ashworth or Gwartz at 419-422-4341.

ELEMENTS HINDER MID-AM

CHICAGO — The elements took their toll on attendance at the 1994 Mid-American Horticultural Trade Show, held here in late January. Freezing temperatures and snow limited the number of attendees to 8,373, according to Donn Sanford Mid-Am's managing director. There were 9,471 registrations: 5,377 from Illinois, while Wisconsin (1,149), Michigan (639) and Indiana (578) were well represented.

Sustane Corp. merger finalized

BLOOMINGTON, Minn. — The merger of Bio Grounds Keeper Inc. and Sustane Corp., previously announced in September 1993, is a done deal. The new entity — known as Sustane Corp. and based here in Bloomington — manufactures organic fertilizers and anti-thatch products for the turf, lawn & garden, and agricultural industries.

The merger has created a few change in titles. David Henderson, managing general partner of Founding Partners II, a Minne-

apolis venture capital fund that participated in the financing arrangements, has been named president and chief executive officer. Donald Brattain, partner with Founding Partners II, has become chairman of the company.

Craig Holden, president and founder of Sustane in 1987, is executive vice president and chief operations officer.

Thomas Duffey, president of Bio Grounds Keeper, serves as executive vice president of sales, marketing and administration.

ACCLAIM[®]

1EC HERBICIDE

Regardless of the crabgrass preemergence herbicide you use, you'll probably still have to deal with escapes just a few weeks later — and throughout the season.

Starting with the first escape, apply regular low rate treatments of Acclaim and get season-long crabgrass control that no pre alone can match. It controls growth from the 1-leaf stage up to multi-tillered crabgrass.

Acclaim can be spot sprayed to control crabgrass on

tees, along cart paths and in other "HOT SPOTS". And, it lets you reseed fescue and ryegrass immediately after the spray dries*. It can be safely used on bluegrass, ryegrass, zoysiagrass, fine fescue, tall fescue, even bentgrass fairways and tees. Be ready with Acclaim at the first sight of crabgrass...because no pre is perfect.

*Wait 3 weeks for bluegrass, zoysiagrass, bentgrass fairways and tees.

**Hoechst
Roussel**

Follow label directions carefully. ACCLAIM and the name and logo HOECHST are registered trademarks of Hoechst AG. The name and logo ROUSSEL are registered trademarks of Roussel Uclaf S.A. Marketed by Hoechst-Roussel Agri-Vet Company, Somerville, NJ 08876-1258. © 1994

Birth of SePro

Continued from page 59

Government, Public and Industry Affairs for DowElanco Specialty Products.

"This is largely due to the growing registration and production costs for low-volume products... At SePro, we recognize the value of these niche markets and the importance of serving them."

According to Dick Holzschu, general manager of DowElanco Specialty Products, the move allowed DowElanco to focus on other challenges in the chemical business.

"It's a win-win situation for both us and SePro," said Holzschu. "This move lets DowElanco reallocate resources internally and concentrate on major opportunities."

Culpepper, a 28-year veteran of Elanco and DowElanco, is joined in the SePro venture by George Ruschhaupt, the former manager of both marketing and sales at DowElanco Specialty Products. He will serve as vice president of operations at SePro.

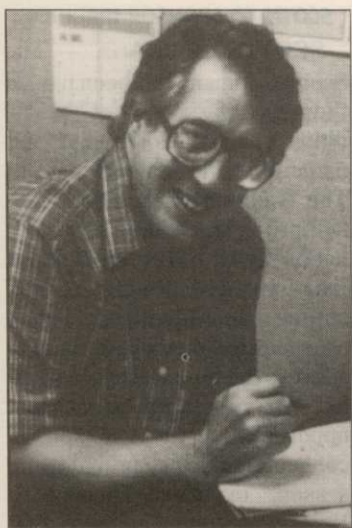
Also coming over from DowElanco, where he most recently served as product marketing manager for Turf and Ornamental Products, is Roger Storey, SePro's new sales and marketing manager of Horticultural Products.

Amplification

DowElanco officials have taken issue with wording contained in an article which appeared in the January edition of *Golf Course News* ("Chemical firms join forces in search for profit"). The story stated that DowElanco had "off loaded a portion of its specialty chemical division." According to Product Marketing Manager Allen Yust, DowElanco had merely given exclusive marketing rights for Cutless plant growth regulator to LESCO. He added that DowElanco has also divested its interest in three more products — Pipron, A-Rest and Rubigan — all of which are now handled by SePRO Corp (see story on page 59).

BECAUSE NO PRE IS PERFECT.





Mr. Kent Wiley Jr.

Pickseed West establishes scholarship in Wiley's name

CORVALLIS, Ore. — Pickseed West Inc. of Tangent, Oregon has endowed a fellowship through the Oregon State University (OSU) Foundation honoring the late Wm. Kent Wiley, Jr., one of the company's founders.

The Wm. Kent Wiley, Jr. Memorial Fellowship is designated for graduate students in the grass Seed Science Program within the Department of Crop and Soil Science in OSU's College of Agricultural Science.

"We are very grateful to the

management and employees of Pickseed West for the gift that establishes this fellowship, and to have Kent Wiley's name attached to it," said Thayne R. Dutson, dean of the College, commenting on the Pickseed gift.

Wiley was a founder of Pickseed West, and was well-known both nationally and internationally as a supporter of the seed industry. Prior to founding the company, with Tom and Martin Pick, he worked with the W.R. Grace Co. in Halsey, Ore., and in his father's seed brokerage

firm, W.K. Wiley and Co. He retired from the seed industry in 1990, and died in late 1992.

"Kent Wiley was not only an accomplished businessman; he was also a warm friend to the growers who produced the seed, the clients that purchased and used it, and the team of professionals he developed in the company," said Dr. G.W. Pepin, who now heads Pickseed West. "The \$50,000 we have contributed is enough to get the Wiley fellowship established, but more is

needed to make the fund large enough to fully support a graduate student. We hope that others in our industry will step forward to add to this endowment fund which honors Kent and will produce future leaders in the grass seed industry."

First awards are expected to be made during the 1994-95 academic year. Applications will be administered through OSU's Crop Sciences Department which will recommend candidates to the Oregon Seed Trade Association for final selection and award.

Lofts honors 12 Rutgers students

BOUND BROOK, N.J. — The Peter Selmer Loft Memorial Scholarship Awards for 1994 were presented to 12 Rutgers University turfgrass science students during the New Jersey Turf Expo in Atlantic City, marking the 11th year these awards have been bestowed.

The scholarship fund, set up in memory of Peter Loft in 1983, is subsidized by royalty contributions from Lofts Seed, royalties from the sale of Tribute Tall Fescue, and through private and corporate donations.

This year the 12 recipients included Karen Plumley, Gary Gentilucci, Pedro Perdomo, Michael Ventola, Michael Holtman, Dirk Smith, Randall Prostak, Stephen Cronin, Joshua Honig, Wendy Hill, Tracy Bunting and Joseph Clark.

...

Lofts recently presented royalty payments to Rutgers University totaling \$686,086. Royalties are generated from worldwide sales of those turfgrass varieties developed through Rutgers turfgrass research programs and then sold through Lofts Seed.

This year's royalty was based on 1992 sales of such varieties as Palmer, Palmer II, Prelude II and Repell II Perennial Ryegrasses; Southshore Creeping Bentgrass; Laser poa trivialis; 1757, P-104 and Ram I Kentucky Bluegrasses; and The Rebel line of tall fescues.

Such moneys returned to Rutgers University help guarantee the research necessary for the development of improved turfgrass varieties in the future.

EASTERN LAND HONORED FOR EXEMPLARY SAFETY RECORD

SHELTON, Conn. — Eastern Land Management, Inc. has been cited, for the second year in a row, as winners in two Associated Landscape Contractor of America contests. The Employee Safety Award is given to firms with the lowest number of accidents and labor time lost during the year, while the Fleet Safety Award recognizes firms with good vehicle safety records. Eastern was honored for having no vehicle accidents during the contest year.

GOLF COURSE NEWS

The new turf sweeper that puts you in control.

Sweep Star 600



Introducing the Sweep Star 600 – the only pull-type turf sweeper that lets you handle every control function right from the operator's seat, quickly and easily.

Thanks to its new electronic remote controls, you can start the powerful Kohler Command 20 hp engine, control all sweeping functions – even dump the large-capacity, full-loading hopper – without ever leaving your seat. And its exclusive full-floating, adjustable-height, single

sweeping reel picks up everything ... pine needles, grass, leaves, cans ... without gouging the turf, even on wet and uneven ground!

The only pull-type turf sweeper that keeps you in the driver's seat. Make a clean sweep – the Smithco way – with the Sweep Star 600.

ALWAYS OUT FRONT
SMITHCO
WAYNE, PENNSYLVANIA 19087

Rohm & Haas acquires rights to Dimension

Continued from page 1

terms were disclosed.

The bid procedure was essentially blind, as suitors lined up and made Monsanto their best offers.

"We had a high level of confidence, but we didn't know we had won until they called and said so," explained Bob Gordon, product manager for Turf & Ornamental at Rohm and Haas. "It's an excellent fit for us. That's why we pursued it so aggressively. We're very excited."

Dimension is currently sold commercially for weed control in turf markets in the United States, Canada, Japan and Australia. Golf course superintendents use it for both post-emergent and pre-emergent control of crabgrass, goosegrass, fox-tail, spurge and oxalis.

Other products involved in the sale include thiazopyr, a new herbicide used for control of weeds in orchards and olive groves in Spain and for tree fruit and forestry uses in South Africa; and thifluzamide, a fungicide in development for use in a number of crops.

"Monsanto's difficult decision to divest itself of this chemistry is based on the desire to focus on products that have technical fits in key agricultural crops such as corn, soybeans and wheat," said Budzynski. "Monsanto will develop these agricultural products aggressively in the turf and ornamental markets, as well as where they have a technical fit."

Gordon explained the acquisition of Dimension is merely one aspect of a strategic purchase.

"We didn't just buy a turf product," he said. "We bought a chemistry which has many other applications."

"We don't compete in the row crop marketplace. We're niche marketers. We go after specialty markets. That's why I believe this is such a good fit for Rohm and Haas."

Ransomes shake-up

Continued from page 59

any joint efforts. The staff reduction program has been underway since Dec. 1, Wilson said. Several new people have joined the firm, including Ransomes PLC Chairman of the Board John Clements, former chairman of several large British firms.

Scotts funds S&R internship program

LAWRENCE, Kan. — Students from around the United States will have an opportunity to earn while they learn, thanks to a new program created by a partnership between the O.M. Scott & Sons Co. and the Golf Course Superintendents Association of America (GCSAA) Scholarship & Research (S&R).

The O.M. Scotts Scholarship Program will offer students summer internships with Scotts corporate and field sales staff and on golf courses throughout the country. Students who successfully

complete their internships will then be eligible for special Scotts/GCSAA collegiate scholarship.

To fund the program, Scotts will provide grants totaling more than \$150,000 over the next three years. The gift is the largest ever made to GCSAA S&R by a corporation.

To find out more about the new O.M. Scotts Scholarship Program call GCSAA's development department at 913/841-2240.

Complete details and applications will be available in early spring.



The Cochise Course at Desert Mountain, site of The Tradition.

SCOTTS TO SPONSOR TRADITION

SCOTTSDALE, Ariz. — The Scotts Company has been named the presenting sponsor of The Tradition, one of the four major tournaments on the Senior PGA Tour. The Tradition will be held March 28-April 3, and will be broadcast nationally on ESPN. While it has long supplied product to golf course superintendents, Scotts also sees the dual opportunity to address the home lawn-care market. "We view this as an excellent opportunity to reach millions of consumers during spring buying season," explained Theodore J. Host, Scotts president and CEO.

IF YOU HAVEN'T USED BARRICADE YET, LISTEN TO THOSE WHO HAVE.

Bill Womac
Superintendent
Dunwoody Country Club
Dunwoody, Georgia

"Barricade's extra length of control is an advantage to us in the South, especially with our long, hot growing season. Overall, Barricade has proven to be more cost-effective for us than other preemergence herbicides we've tried. We plan to use more next year."

Barricade

HERBICIDE
The Precision Performer.

Steve Carr
Superintendent
Pocasset Golf Club
Pocasset, Massachusetts

"Barricade makes it easy for us to fine tune our control program, as the length of control is determined by the rate used. We've found that one application is all it takes to keep us crabgrass free until the start of cold weather."



DISTRIBUTED BY:

AG RESOURCES, INC.
BRANDON, FL

AGRA TURF
SEARCY, AR

AGRI TURF, INC.
HATFIELD, MA

THE ANDERSONS
MAUMEE, OH

BENHAM CHEMICAL CO.
FARMINGTON HILLS, MI

CANNON TURF SUPPLY, INC.
INDIANAPOLIS, IN

ESTES, INC.
WICHITA, TX

FISHER & SON, CO.
MALVERN, PA

E.H. GRIFFITH, INC.
PITTSBURGH, PA

GEORGE W. HILL & CO.
FLORENCE, KY

HOWARD JOHNSON'S ENT.
MILWAUKEE, WI

KNOX FERTILIZER CO.
KNOX, IN

KOOS/SHORE, INC.
KENOSHA, WI

EcoScience in midst of public offering

WORCESTER, Mass. — EcoScience Corp., a manufacturer and marketer of biological pest control products, is in the midst of a public offering of 2,000,000 shares of its common stock.

The offering is being led by Oppenheimer & Co. and Prudential Securities Inc. Those interested in obtaining a prospectus or those with questions should contact Michelle Linn or Gene Ostrow at 508-754-0300.

EcoScience also announced a net loss of \$24 million — or \$.35

per share — for the three months ending Sept. 30, 1993. This contrasts with the net loss of \$1.3 million — or \$.20 per share — for the same quarter in fiscal 1993.

Revenues for the first quarter were \$2.7 million compared to the \$567,000 reported for the year-earlier period. The increase in revenues, according to James Wylie Jr., president and CEO of EcoScience, was primarily due to the inclusion of the operating results of Agro Dynamics Inc., acquired by EcoScience in November 1992.

U.S. firm enters Chinese joint venture

Continued from page 59

joint venture will serve to contract for research, provide for transfer of technology, and import and export commercial products from the partners. Under the terms of the agreement, IBC will screen its extensive fungal strain collection against a series of EcoScience targeted insects, collect soils samples throughout various regions of the PRC and conduct bioassays on new iso-

lates. In addition, the IBC will manufacture specified fungal strains for EcoScience's evaluation and use. EcoScience will fund these programs and receive a right of first refusal to commercialize. Said James A Wylie, Jr., President and CEO of EcoScience: "IBC coordinates the national biological control program for all of China and we are honored to have aligned ourselves with such a prestigious organization."

Vietnamese trade embargo lifted

Continued from page 59

of a Western-style business climate, is encouraging pursuing other golf- and resort-oriented projects.

The United States placed a trade embargo on Vietnam following America's military withdrawal from the Southeast Asian nation in the mid-1970s. As memories of the war faded, United States/Vietnam relations have mellowed. President George Bush modified the embargo in December 1992, allowing American businesses to sign Vietnamese contracts, but not fulfill them until the embargo is lifted.

Clinton refused to lift the embargo last summer, claiming Vietnamese officials still were not fully cooperating on resolving the issue of locating U.S. servicemen missing since the Vietnam war.

But in recognition of improved relations between the two countries, Clinton on Sept. 13, 1993, further modified the embargo so that U.S. developers could at least bid on projects financed by international lenders, such as the World Bank and Asian Development Bank.

Sen. John Kerry (D-Mass.), a Vietnam veteran, has led the call to ease the embargo if Vietnamese cooperation continues. Assistant Secretary of State Winston Lord praised Vietnamese officials for their cooperation during a late-1993 visit to Hanoi.

Clinton's action allows U.S. companies to bid on privately financed projects, the State Department spokesman said. Private money is fueling what golf development is taking place in Vietnam.

The World Bank and Asian Development Bank could eventually finance resort development, although this remains years away in a country where roads, bridges, electricity and water supplies are sadly lacking and the average yearly income is approximately US\$200 per person.

"We're looking at financing very basic infrastructure projects at this point," said Peter Stephens, external affairs spokesman for the World Bank's East Asian market. "It's likely to be that way for some years. The Asian Development Bank is probably looking at the same type of investments."

Infrastructure, transportation, communications and a legal system to define specific land packages are the major deterrents to golf development in Vietnam, Jones II's Furber agreed.

Many potentially beautiful golf resort sites exist in Vietnam, particularly in the Ho Chi Minh City and Hanoi areas, Furber noted. But most won't be developed until infrastructure requirements are met, he added.

"A few months ago, a Singapore newspaper did an article on all investments in Vietnam," Furber said. "Only one out of seven ventures were successful."

Dick Stuntz
Superintendent
Alvamar Country Club
Lawrence, Kansas

"With the amount of flooding and heat we've had this season, most preemergence herbicides would have fizzled out by now — but not Barricade. It's still giving us excellent control."

John Freeman
Superintendent
Deerwood Country Club
Kingwood, Texas

"Our preemergence weed control program was too expensive. Rather than cut back we switched to Barricade. Now, for the same dollars, we not only get excellent control, but also more coverage. Plus, we have the advantage of using multiple applications and getting better control of a broader spectrum of weeds."

SANDOZ Use pesticides effectively. Read and follow label instructions carefully.
Barricade® is a registered trademark of Sandoz Ltd. © 1993 Sandoz Agro Inc.

LEA'S GREEN MEADOWS, INC.
TEMPLE HILLS, MD

LEBANON TURF PRODUCTS, INC.
LEBANON, PA

PENAGRO T&O PRODUCTS
BOONE, NC

PENNINGTON ENTERPRISES, INC.
MADISON, GA

PROFESSIONAL TURF SPECIALTIES, INC.
ST. CHARLES, MO

REGAL CHEMICAL, CO.
ALPHARETTA, GA

TURF INDUSTRIES, INC.
HOUSTON, TX

TURF PRODUCTS LTD., INC.
W. CHICAGO, IL

TURF SUPPLY COMPANY
EAGAN, MN

UNITED HORTICULTURAL
SUPPLY, SALEM, OR

VIGORO INDUSTRIES, INC.
WINTER HAVEN, FL

WILBUR-ELLIS COMPANY
KENT, WA

Leslie Comment

Continued from page 10

him. "We're still going to build a lot of golf courses. We have 33 on the list for next year," he said.

So who's counting?: The "19th hole" has a different meaning for Rulewich. When designing a golf facility with 27 holes, or 36 or 54, he thinks of the holes as the 19th, the 20th, the 36th, etc. What a memory, huh? Ask Roger to describe the 43rd hole at Opelika, Ala., then sit back and listen to him expound on the 7th hole of the short course.

Alice on thriftiness: "Our first golf course was the nine-hole El Dorado Country Club in Indianapolis. It was really supposed to be 18 holes but we spent all our money on the first nine." — Alice Dye on her and her husband Pete's beginnings

Dyed in the wool: Perry O. Dye on his mother, Alice's straightforwardness: "Her constructive criticism has made my dad's work as fantastic as it is. There's no fluff around our house when we talk about our work. If it's bad, we know it, and we have somebody to tell us right away — (Perry chuckles

as he adds:) sometimes before we're ready to hear it."

Roger and I: A "perfect" pass-catch combination in football is a quarterback and receiver who never misconnect. Thanks for the perfect pass, Roger Staubach. And thanks, K Power, for the opportunity to catch a pass from a Hall-of-Famer.

We were touched: Leuzinger showed slides of the bounteous flowers at his St. Charles (Ill.) Country Club. Then, with a photo of his wife with him in the woods, he said: "This is my flower."

Best new product name: Slime. Did they pick this stuff up off the floor of the movie set at *Ghostbusters*? What does it do? You empty your tires, pump Slime into them, refill them and you won't get a flat tire for the next seven years — guaranteed. Sounds great, but how about *Flatbuster*!

Most soul-searching comment: "Sometimes it's wise for the architects to swallow their worldwide, well-known pride. Sometimes the superintendent does, too." — ASGCA President Jerry Matthews on potential clashes between the

two pros at new courses.

Just call him Mister: Joe Baidy took on his job of Herculean proportions (the presidency of the GCSAA) after completing a Rossian challenge (renovating the bunkers at his golf course). Hercules and Ross: A good duo to emulate, Joe.

Honest, he's innocent: The USGA Green Section's Larry Gillhuly of Oregon, director of the Western Region, said: "I've been asked hundreds of times if I was involved in the Nancy Kerrigan assault. The answer is 'No.' Jeff Gillhuly spells his name G-i-l-l-h-u-l-y."

SUPPLIER BUSINESS NEWS IN BRIEF

HCC ACQUIRES DIG-IT

MENDOTA, Ill. — HCC, Inc., a manufacturer of agricultural equipment and utility products for North American and European markets, has acquired Dig-It, a Waukesha, Wis.-based manufacturer of compact towable backhoes and tractor-loader-backhoes. The Dig-It product line includes 3 models of heavy-duty compact towable backhoes popular in the Utility, Rental and Construction markets, and a compact tractor-loader-backhoe. Mendota-based HCC completed the transfer of the production operations in January of this year.

...

HUEBER TO HEAD ACCUFORM

MISSISSAUGA, Ontario, Canada — David Hueber, former head of Ben Hogan Golf, has been appointed president and CEO of Accuform Golf Corp., and will be one of four principals of this privately held Canadian golf accessory/equipment company. While it is probably better known for its patented sand trap rake, the company introduced Accuform II a perimeter weighted golf club in 1993.

...

TANAKA OFFERS WARRANTY

BOTHELL, Wash. — Tanaka will now provide a one-year commercial use warranty on many of its professional grounds maintenance products, including the most popular models of trimmers, brushcutters, hedgetrimmers, edgers and blowers. For more information, contact the nearest Tanaka power equipment dealer or call 206-481-2000.

...

FARMER TO DIRECT SALES AT WOODS EQUIPMENT

OREGON, Ill. — Woods Equipment Co., the manufacturer and marketer of tractor-powered accessories, has named Steve Farmer director of sales, with responsibility for the company's sales force and network of approximately 3,800 independent farm equipment dealers. Farmer was most recently regional manager for sales in the Southern Region. He will be replaced by Ron Tiller.

POLYS

TECHNOLOGY

PATENTED

Even The Government Agrees: There's Nothing Else Like Poly-S®.

No one else can make a controlled-release fertilizer like Poly-S. And now we have a patent to prove it.

More importantly, no other controlled-release fertilizer can *perform* like Poly-S. Which is why, in a little more than a year since the introduction of SCOTTS® Poly-S technology, Poly-S fertilizers are being applied successfully by over 5,000 turfgrass managers in the U.S., Canada and worldwide — the fastest selling fertilizer in history.

And the reason Poly-S is so popular is performance, with consistent nutrient release over a

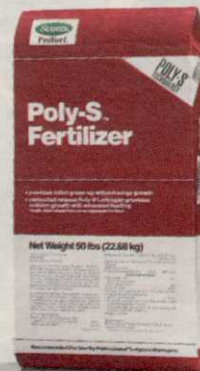
longer period of time. Because of the improved nitrogen efficiency, you get more value from the fertilizer you apply, with an overall improvement in turf quality.

And because Poly-S offers the capability to choose specific release rates appropriate to different applications, it has proven its effectiveness under a variety of agronomic conditions in every region of the country.

Of course, Poly-S fertilizers also come with a Scott Tech Rep, agronomically trained to help you develop a total turfgrass program.

Scott Tech Reps aren't "patented," but like Poly-S fertilizers, they are a SCOTTS exclusive.

For more information on Poly-S fertilizers, contact your Scott Tech Rep. Call 1-800-543-0006 or fax 513-644-7679.



Poly-S® Fertilizers

Steam that mower clean

Sioux Steam Cleaner has introduced a combination steam cleaner and hot-pressure washer for cleaning and maintaining golf course and turf equipment. The Sioux Model 160-C is designed to combine steam cleaning (up to 200 degrees), hot-pressure washing and cold-pressure washing in one unit.

While able to remove mud, dried-on dirt and grease from vehicles and grounds equipment, the Model 160-C will also sterilize mower parts, halting spread for weed seeds, spores and fungus to other lawn areas. It can also de-ice frozen valves and machinery during the winter.

For more information, contact Sioux Steam Cleaner at One Sioux Plaza, Beresford, S.D. 57004; or call 605-763-2776.

CIRCLE #301

Landscape software

LANDCADD International has introduced Site Designer, a new stand-alone computer-aided drafting (CAD) software program featuring site-planning and landscape tools, irrigation and estimating capabilities, and basic cogo functions. It's designed to address the land planning needs of contractors, design-build firms and smaller landscape and architecture offices.

Site plan tools include dimensioning, topography and lot layout. Growth simulation is provided along with access to an external plant database with 150 plants. Irrigation functions include automatic- and manual-head location and pipe labeling and sizing.

For more information, contact LANDCADD at 7388 S. Revere Parkway, Building 900, Englewood, Colo., 80112-3942; or call 303-799-3600.

CIRCLE #302

Markers that bounce back

The new FlexStake FG400 series of hazard and yardage markers retains all the mow-over capability of the SF200 markers, plus they float — to discourage vandals who have made a habit of throwing markers in water hazards.

Using a patented Miles utility profile, the FG400 features a two-chamber, UV-protected, color-impregnated, polycarbonate extrusion. The markers are made of 100 percent plastic, with no steel springs or metal spikes that can harm a person or reel mower.

For more information, contact FlexStake Inc. at 2348 Bruner Lane SE, Fort Myers, Fla., 33912.

CIRCLE #303

TriKote, new & improved

Pursell Industries has announced an advancement in its sulfur-coated urea (SCU) and other sulfur-coated fertilizer (SCG) coating technology.

TriKote is a triple coating process designed to safeguard against excessive sulfur coating cracking often caused during fertilizer handling. With fewer broken coatings, TriKote is designed to increase the amount of fertilizer retained in the slow-release form. TriKote calls first for a thin layer of sulfur to be coated on the fertilizer granule, followed by application of two co-reactive monomers. The liquid monomers are sprayed on separately but polymerize together, forming a protective polymer sealant. For more information, contact Pursell Industries at ; or call .

CIRCLE #304

Golf Course Marketplace

To reserve space in this section, call Mary Anderson at 813-898-7077



Nationwide delivery • Install in less than two hours

Golf Course Bridges!

1-800-328-2047

Thousands in use.
Built to last.
Sponsor Member

CONTINENTAL BRIDGE

Route 5, Box 178, Alexandria, MN 56308 • (612) 852-7500

NGF
NATIONAL GOLF FOUNDATION

CIRCLE #170

Keep Your Divot Seed Mixture Where It Is Used ...

... in Divot Seed & Soil tee buckets next to the tee markers. Available in Cedar or Redwood slats and with companion Trash'M debris buckets.

Ask Your Golf Course Distributor for INNOVATIVE MAINTENANCE PRODUCTS

From *Master of the Links*

P.O. Box 283, Lockport, IL 60441-0283
(815) 723-4444 • Fax (815) 723-4485

CIRCLE #172



Qquest

Golf Course Maintenance Software

Only **\$595⁰⁰***

*Limited offer

Preventive Maintenance • Work Orders • Repair Histories
Parts Inventories • Budget Analysis • Labor Management

Chemical Tracking • MSDS Informational Database
Expense Budget Tracking • Weather Monitoring & Forecasts
and much, much more!

Call for a **FREE Demo Disk!** **Qquest Software Systems**
1-800-733-8839

CIRCLE #174

LIST RENTAL

GOLF COURSE NEWS

...now offers you the opportunity to reach the decision makers at thousands of golf facilities with an exclusive mailing list.

Call Mary Anderson for details.
(813) 898-7077

TerraBond



GEOTEXTILES FOR SOIL SEPARATION AND FILTRATION

Economical soil filtration and separation for all landscaping and turf applications. Strong, durable, puncture resistant, pliable and permeable, easy to install. Proven performance nationwide.

CONTECH
Geosynthetic Products
for the Turf Industry

For free information, call toll-free:
1-800-338-1122
(In Ohio, 1-800-752-8899).

CIRCLE #171

Formost Construction Co.

Serving the nation for over 30 years.

IRRIGATION SPECIALISTS
"Doing One Thing Well"

P.O. BOX 559
TEMECULA, CALIFORNIA 92593

(909) 698-7270
FAX (909) 698-6170

STATE LIC. #267960

CIRCLE #173

Exceptional Software...

SCMS

Superintendents Compliance / Management System

"The Choice of Today's Grounds Managers"

From *Equipment Tracking and Employee Training... To Compliance Reports and Chemical Records*

Free Demonstration Diskettes
Call Toll Free (800) 472 8882
Environmental Compliance Systems, Incorporated
21 North Avenue Lake Forest IL 60045

CIRCLE #175

ENGRAVED YARDAGE LABELS

• Bright colors • Fasteners included
• Orders quickly shipped UPS **Free Samples!**

NEW ITEM... "THE SOLUTION"

For Areas Without Sprinklers.
Put Your Message Plus Yardage Anywhere.

Oak 168 C.C.

THE YARD EDGE GOLF CO.
1-800-284-YARD (9273)

P.O. Box 13159
Wichita, KS 67213

CIRCLE #176

GCSAA meeting, vote

Continued from page 29

"The meeting and conference went very well," Baidy said. "The membership gave us a sense of the direction they want us to take them with the bylaw vote. And I'm very pleased with the makeup of the board."

Baidy said he needed more time to discuss the defeated membership amendments with members and delegates before commenting on them.

One amendment would have added six *new* membership categories for other golf course maintenance and management personnel currently assigned to Affiliate or Associate classifications. The second would have established *separate* membership classifications for club officials and golf association staff members, also currently assigned Affiliate or Associate status.

The other bylaw amendments receiving favorable nods call for:

- Preserving the membership's authority to set dues for Classes AA, A, B and C, but through regular ballot procedures instead of voice vote. The board will set dues for other classifications.

- Maintaining the current requirement for a two-thirds majority vote to alter qualifications and levels of privilege for membership classes AA, A, B and C, while giving the board that power for other classes.

- Simplifying Class B and C qualifications by making all superintendents with less than three years' experience Class B members and all assistant superintendents Class C.

- Creating a new membership class for education and extension officers who are currently Affiliate or Associate members; allowing the board to lower dues for retired members; making honorary membership permanent; and requiring the board to set rules regarding Affiliate member privileges.

- Requiring two-thirds of the board to approve any mortgage or loan that incurs financial obligations for future boards.

- Requiring an official post-election report of voting records by chapter name, total of individual votes and total of proxy votes.

- Making submission of false information on membership applications or dues statements an offense punishable by discipline or expulsion.

- Updating the organization's mission to reflect the importance of environmental awareness in golf course management.

- Changing the secretary/treasurer position from a presidential appointment to an elected office. If tradition holds, that means secretary/treasurer Bruce Williams will be the nominating committee's sole choice for vice president in 1995 and GCSAA's likely president in 1996.

- Clarifying the secretary/treasurer's official duties.

- Naming the president, vice president and secretary/treasurer as trustees of the Benevolence Fund.

- Retitling the association's chief executive employee *CEO* instead of *executive director*.

Golf Course Marketplace

To reserve space in this section, call Mary Anderson at 813-898-7077



Flymo®

- New GCT 20
- Patented & Proven Safety Cutting System
- New JLO Engine with One Year Warranty



**PRECISION
SMALL ENGINE CO.**

FOR MORE DETAILS CALL
1-800-345-1960 or 305-974-1960

CIRCLE #178

Keep That Edge



Contact Your Local Distributor or Call Us
Toll Free 1 (800) 422-4748

CIRCLE #179



QUAIL VALLEY FARM, INC.

"Growers of Quality Turf Grasses"

- Meyer Z-52 Zoysia
- El Toro Zoysia
- Tall Fescue
- Sprigs
- Tifway II
- Tifdwarf
- Big Rolls

• Midlawn
(the new transition zone bermuda grass!)

(800) 666-0007

P.O. Box 5508
Little Rock, AR 72215
(501) 280-0763



CIRCLE #180

YORK BRIDGE CONCEPTS

A Division of Pelican Marine Enterprises, Inc.



- On-Site Construction
- Consulting and Design Capabilities
- Certified Engineered Drawings Available

1426 W. Busch Blvd. • Tampa, FL 33612 • (800) 226-4178

CIRCLE #182

TRIMS gives you more for your money!

TRIMS gives you more benefits and offers you more features than all other grounds management software packages combined! Don't settle for an imitation.

**You've always wanted TRIMS!
Why Wait?**

Call for your free Demo Disk:

TRIMS Software International

6220 East Thomas Road, Suite 303
Scottsdale, AZ 85251

(800) 608-7467

Indicate 5 1/4" or 3 1/2" diskette

CIRCLE #184

GOLF COURSE DESIGN OF THE FUTURE!

Great return on your investment!

35+ or 75+ acres—18 holes—family center

Jack Fleck Design

U.S. Open Champion: 55 years a pro

Contact **Jack Fleck & Associates**

Rt. 1, Box 14-O Magazine, AR 72943
(501) 969-2203 Fax: (501) 969-2797

CIRCLE #181

ACCU-GAGE™

NEW!

**LIFETIME
WARRANTY
ON BARS WITH
DURA-COAT™**



ACCU-GAGE is a precision tool for making highly accurate height-of-cut measurements on greens-mowers or other precision mowers. AVAILABLE IN 15", 18", and 24" bars.

Our LIGHTWEIGHT and RIGID aluminum bars are now treated with DURA-COAT. DURA-COAT wears better than tool steel and enables us to offer this unique LIFETIME WARRANTY. In addition, all replacement bars are treated with DURA-COAT, and have a LIFETIME WARRANTY.

To order call 1-800-253-2112 or fax 1-313-429-3985.

PRECISION TOOL PRODUCTS CO.
7836 Bethel Church Rd. • Saline, MI 48176

CIRCLE #183

NEW

GROOMER

GAGE... is a precision measuring instrument for accurately setting the desired grooming depth on groomer or verticutter units.



For more information on this and other precision tools call Toll Free:
1-800-253-2112 / In Michigan call Collect: 313-429-9571

PRECISION TOOL PRODUCTS CO. 7836 Bethel Church Rd. • Saline, MI 48176

CIRCLE #185

Golf Course Marketplace

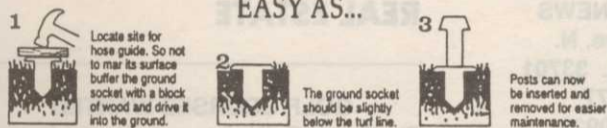
To reserve space in this section, call Mary Anderson at 813-898-7077

MARKERS, INC.

33597 PIN OAK PARKWAY • AVON LAKE, 44012

Golf Course Marking System

EASY AS...



Permanent System with Flexible Application

Call Today! 1-800-969-5920

CIRCLE #186

DON'T READ THIS AD!

Unless you want to improve the financial management of your golf course.

IBS provides turn-key computing solutions to meet today's golf course management needs. Whether its point of sale, membership billing, food & beverage operations, or a complete accounting system, IBS is the one company to call!



Integrated Business Systems, Inc.
1401 Gaskins Road • Richmond VA 23233
(800) 860-6227 or (804) 741-6326

CIRCLE #187



PAVELEC BROTHERS GOLF COURSE CONSTRUCTION CO., INC.

- ✓ New Construction
- ✓ Renovation
- ✓ Field Drainage Systems

TONY PAVELEC
(201) 667-1643
EMIL PAVELEC
(201) 939-6182

98 Evergreen Ave.
Nutley, NJ 07110

CIRCLE #188



Miltona

TURF PRODUCTS

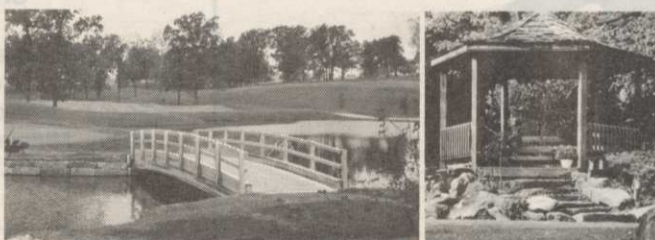
Over-Seed Winter Kill

With this tool you can punch 700 seed holes per minute on one inch spacing. It attaches to a cup cutter handle.

Order Yours Today
Call 800-456-4351

P.O. Box 164 • Miltona, MN 56354

CIRCLE #189



Laminated Wood Pedestrian & Vehicular BRIDGES & SHELTERS

Order Direct From The Leading Manufacturer in U.S.

- Complete Prefabricated Packages
- Ready for Fast Erection
- Direct Distribution Throughout the U.S.
- Custom Design & Engineering



CALL
1-800-777-UNIT

Morrisville, NC 27560
Tel. 919/467-6151
FAX 919/469-2536

CIRCLE #190

Inside Info

Get the jump on your competition by subscribing to the
Golf Course News Development Letter

This twice-monthly newsletter ...

- tracks golf course projects under consideration across the nation
- is packed with news items detailing where and when projects will be undertaken, and by whom
- is just \$195 for a year's subscription.

For more information, contact
Editor Peter Blais at 207-846-0600.



Furness Golf Construction, Inc.

TIM FURNESS, PRESIDENT

Turn-Key Golf Course Construction
Statewide • Nationwide • Worldwide

QUALITY IS OUR MAIN CONCERN

(616) 547-6133

1101 Bridge Street, Charlevoix, Michigan 49720

CIRCLE #191

Clemson course/lab

Continued from page 22

plant pathology.

Dr. Ron Kendall, who is in charge of a study at Kiawah Island's Ocean Course, said, "This kind of integrated thinking will be very important. This will ... continue to build on such efforts as Kiawah and other studies as to how to lay out a golf course and not harm the ground water, surface water and wildlife habitat.

"The course will help us understand pesticide and fertilizer use and timing of applications; identify appropriate turfgrass, shrubbery and habitat that is least dependent on pesticides; and then the best strategies to incorporate environmental concerns."

Kendall has expressed excitement at the opportunity to "look at how courses change over time, model the influence of pesticides and their movement and fate, and potential exposure and impact on the environment."

...

Coordinated by developer Keenan Corp. of Columbia, S.C., initial construction includes the golf course and conference center. A planned hotel has been deferred for a time.

The course is being designed by D.J. DeVictor of Roswell, Ga., built by Landscapes Unlimited of Lincoln, Neb., and managed by Riverside Golf.

While scientists wait with great expectations for the course to open and tests to begin, officials from the federal Architecture and Transportation Barriers Compliance Board have been involved for months. Only one other 18-hole course in the country — Fox Hollow in Littleton, Colo. — has been specifically designed to be accessible to physically handicapped.

Yet DeVictor said although he was skeptical at first, making the track accessible has had very little effect on his design.

"Everybody put us at ease almost immediately," he said. "The ADA and others don't want to change the character or strategy of the golf course. There is very little impact from adapting ADA regulations.

Tee boxes, greens and bunkers in particular must be accessible, and the cart path must provide access to the fairway every 75 yards, he said.

Basically, these concerns are addressed by building the paths all the way to the tee boxes and without steep inclines.

"The bottom line," DeVictor said, "is that the contractor has to implement the strategies. I call them constraints, but they're really not affecting anything. You have to wind the cart path through the course so that it's not visible but gives you access. This makes us look at it with more detail, but most of it is field directions.

"We think people will have to be told it's built as handicapped accessible."

The fairways should be seeded in mid-summer and the greens with bentgrass in September, and the course could open in November, DeVictor said.

"We're looking forward to doing national golf tournaments for handicapped, and other events at that level," Martin said.

The 52,400-square-foot conference center should open in June 1995, he said, adding that he anticipates the facility may become a model for other research-oriented universities. However, "We are so heavily involved in getting the golf course up and running, we haven't done a lot of that kind of work."

The \$1 million anonymous gift was two-thirds what was needed to begin construction on the \$3.7 million course. It set in motion plans to borrow another \$2.2 million, which will be backed by the Clemson University Foundation, a private non-profit fundraising group. That money will be repaid from proceeds from the facility, Martin said.

March

4 — *Athletic Turf Management Seminar in Gainesville, Fla.* Contact 414-733-2301.

5-8 — *45th Canadian Turfgrass Conference & Trade Show in Calgary.* Contact 905-602-8873.

7-8 — *Athletic Turf Management Seminar in Lincoln, Neb.* Contact 414-733-2301.

8 — *USGA Green Section Educational Conference with staff agronomists and golfer Jerry Pate in Palm Beach Gardens, Fla.* Contact 407-546-2620.

10 — *USGA Green Section Educational Conference with staff agronomists and golfer Jerry Pate in Orlando, Fla.* Contact 407-546-2620.

11 — *GCSAA seminar on Maximizing Job Satisfaction in Phoenix*

11 — *Fifth Annual Turf Management Seminar in El Cajon, Calif.* Contact 619-670-1980, ext. 262.

14-16 — *Maine Turfgrass Show and Conference in Rockport.* Contact 207-781-7878.

17 — *GCSAA seminar on Implementing Strategies and Plans for Turfgrass Environmental Systems in Minneapolis.**

17-18 — *USLI seminar on "Profitability in a Changing Environment" in Chicago.* Contact 800-735-4647.

22-23 — *GCSAA seminar on Golf Course Design Principles in Palm Springs, Calif.**

22-23 — *Turfgrass, Landscape and Sports Turf Institute in Pomona, Calif.* Contact

619-723-0947.

24-27 — *Pacific Rim Golf Course Conference and Show/Golf Asia in Singapore.*

April

17-19 — *NGF Alternative Golf Facilities Conference in Newport Beach, Calif.* Contact 407-744-6006.

July

4-8 — *World Scientific Congress of Golf in St. Andrews, Scotland. Contact World Scientific Congress of Golf in the UK at 0334-75560.*

31-Aug. 2 — *Georgia GCSA Summer Conference at Calaway Gardens Resort. Contact Karen White at 706-769-4076.*

October

29-Nov. 2 — *Georgia GCSA Annual Meeting in Savannah. Contact Karen White at 706-769-4076.*

November

8-9 — *National Golf Foundation Golf Summit '94 in Phoenix.* Contact 407-744-6006.

10-12 — *Golf Course Expo in Orlando, Fla.* Contact the Golf Course News Conference Group at 207-846-0600.

13-16 — *28th Annual Carolinas GCSA Conference and Show in Myrtle Beach, S.C.* Contact 800-476-GCSA.

* For more information contact the GCSAA Education Office at 800-472-7878 or 913-841-2240.



IT DOES A NUMBER ON SUMMER PATCH. NOT ON YOUR WATER BILL.

Unlike some fungicides, Banner® needs no watering-in to be effective. So use it, and you won't get soaked.

©1994 Ciba-Geigy Corp., Turf and Ornamental Products. Banner is a registered trademark of Ciba-Geigy Corp. Always read and follow label directions.

Golf Co

To reserve space

ADVERTISING INFO.

1994 RATES

	2X	6X	12X
Per col. inch:	\$75.00	\$65.00	\$50.00
Add-on per 1/4":	\$18.75	\$16.25	\$12.50
Logo incl. in ad:	\$40.00	\$40.00	\$40.00

- Rates are per insertion.
- Minimum 2-time insertion.
- Prepayment is required.

Send prepayment & ad copy to:
GOLF COURSE NEWS
227 Second Ave. N.
St. Petersburg, FL 33701
(813) 898-7077
Fax (813) 825-0923

EMPLOYMENT OPPORTUNITIES

QUALITY OVERSEAS AND DOMESTIC JOBS

Golf Construction personnel needed at all levels. Temporary and long term positions available. Send resume to:

Fax: (714) 524-7255

GreensWay Golf Company
101 S. Kraemer Boulevard
Placentia, California 92670

SHAPER

Shaper with experience in new construction and renovation needed. Progressive company based in Midwest. Send resume to: **Midwest Golf Development, Inc., 18250 Beck Rd.; Marengo, IL 60152.**

JOB SEEKERS: The freshest source of green industry job openings in America; 3 month subscription (6 issues) : \$19.95. **EMPLOYERS:** For fast, inexpensive vacancy listings. MC/VISA. Call: 1-800-428-2474; Fax: 1-800-884-5198. **Ferrell's JOBS IN HORTICULTURE, 154 E. Chapel Ave.; Carlisle, PA. 17013-3435**

SEEKING EMPLOYMENT

PROJECT MANAGER/SUPERVISOR

Seeks position with contractors, owners and developers. Proven track record with international experience. B.S. in Agronomy; minor in Irrigation.

(813) 924-8963

NO JOB TOO BIG OR TOO HARD!

I specialize in taking problem jobs, companies, landscape and/or golf projects and making them run smoothly and profitably. Experience as a golf course superintendent, landscape architect, construction manager and contractor. Willing to travel worldwide. Reply to: **Division A, Golf Course News, 227 Second Ave. N.; St. Petersburg, FL 33701.**

REAL ESTATE

GOLF COURSES WANTED

Southwest Golf is interested in purchasing or leasing golf courses.

Call Dick Campbell at
(505) 898-0960

FOR SALE

NEW VIDEOS

"Introduction to Golf Course Maintenance" (Spanish or English). It covers green cutting, cup changing, cart maintenance & sandtrap raking. \$39.95 plus \$4.00 shipping & handling. Now being used in 34 states—and by the GCSAA Education Department.

MACH IV PRODUCTIONS
P.O. Box 543
Wauconda, IL 60084

** FOR SALE **

CONCRETE CART PATHPAVER

Will Do 8', 7' or 6' cart paths. Used only once. In excellent condition.

T.D.M., Inc.
Call: (604) 689-0180 or
Fax: (604) 689-0196

STEEL BUILDINGS

Save up to 40% on Arch Style Buildings. Factory Clearance. 25x30; 40x40; 50x100 & others. Factory Direct.

AMERICAN STEEL ARCH, INC.

1-800-942-1234

PIPE LOCATOR

Inexpensive! Locates, traces underground drain, water pipelines of clay, PVC, ABS, steel & cement. Finds sprinklers, valves & clogs. Used by over 1,000 golf courses. **Bloch & Co., Box 18058, Cleveland, OH 44118. (216) 371-0979**

Course Marketplace

For more information in this section, call Mary Anderson at 813-898-7077

WADSWORTH GOLF CONSTRUCTION COMPANY

FOR SALE: HARLEY ROCK PICKER BY GLENMAC: Model A High Lift, 1989 Models. Glenmac SN#A-9A0603 and A-9A0604. Like new! \$19,250 each unit. **HARLEY WINDROWER ROCK PICKER BY GLENMAC.** Great condition. 1989 Model, TR 12, SN#129A0404; 1989 Model, TR 38, SN# 89A02012. \$5,500 each unit. Delivery not included. Call: (815) 436-8400

RAZORBACK BUNKER EDGER

\$29.95. Long handled tool roots out encroaching grass in sand bunkers and cuts a clean edge between sand & grass. Contact **D.W. Eaton, 3501 Camelot Drive; Lexington, KY 40517-1408.** Ph#: (606) 273-4604

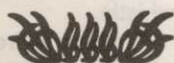
FOR LEASE OR HIRE CONCRETE CART PATHPAVER ABLE TO DO 6 OR 8 FT. CART PATHS CALL KEITH ACKLIE (817) 430-3289

POND LINERS

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

COLORADO LINING COMPANY 800-524-8672 or 303-841-2022

BUSINESS SERVICES



Mid Tenn Turf, Inc.

Golf course, athletic field renovations & new construction. Sodding, sprigging, row planting, fairway renovations. Complete turn key operations. Products include: Vamont Bermuda; Tif & Tif II Bermudas; Meyer Z-52 Zoysia; Blended Fescue.

**Mid Tenn Turf, Inc.
Rt. 3, Box 3199
Manchester, TN 37355
Phone (615) 728-0583**

INSIDE INFO

Get the jump on your competition by subscribing to the **Golf Course News Development Letter**, which tracks golf course projects *under consideration* across the nation. This twice-monthly newsletter is packed with news items detailing where and when projects will be undertaken, and by whom. For more information, contact:

Editor Peter Blais at (207)-846-0600

Market Demand & Feasibility Studies

**New Projects • Expansions
Buyers • Sellers • Lenders**

**Texas • Arkansas • Louisiana
Oklahoma • New Mexico**

**TALON
GOLF SERVICES**

1603 Lightsey • Austin Tx 78704
512/442-7105 • Fax 512/442-1812

QUALITY EMPLOYEES FOR DOMESTIC AND OVERSEAS JOBS AVAILABLE

When you require the best for all aspects of your golf course development, GreensWay fills your needs. From budgeting to construction and operations, we deliver qualified employees. With over thirty years in the golf industry, GreensWay takes the hassle out of finding personnel with specialized skills.

**Office: (714) 528-1185 ext. 45
Fax: (714) 524-7255**

**GreensWay Golf Company
101 S. Kraemer Boulevard
Placentia, CA 92670**

TRUE-SURFACE (TM) VIBRATORY GREENS ROLLER

Selected territories available to distributors or reps for patented, vibrating greens rolling system. Demonstrated marketability, national advertising program, leads furnished: Write to: **Turfline, Inc.; 327 Willowpoint Dr.; St. Charles, MO 63304. 1-800-443-8506**

BUSINESS OPPORTUNITIES

GOLF IN ANY WEATHER—ANYTIME

Future Golf, Inc. has developed a golf concept patented in the U.S., Canada & Great Britain (Japan pending) in which you can play a round of golf in any weather at any time on marginal land of 7 acres. Will sell patents or form joint venture. Write to **25597 W. Drake Rd., Barrington, IL 60010. (708) 381-2427.**

Put the classifieds to use—they work! Closing date for space in the April issue is March 15th. Call our advertising office at:

**(813) 898-7077
Or fax us your ad at:
(813) 825-0923
and get results today!**

LASER MEASURING

LASER MEASURING and SPRINKLER YARDAGE MARKERS

We do it all. Laser measure & installation (same day) of **custom metal yardage markers** for all types of sprinkler heads. Warranty included. Also tee to green measurements, granite fairway markers. Sprinkler yardage markers may be purchased separately. Contact Nick for samples & references.

**Fairway Designs of Florida
1-800-36-TAGIT**

GOLF COURSE ACCESSORIES

CUSTOMIZED YARDAGE MARKERS

- ✓ **Highest quality bronze markers** for tees, 100, 150 & 200; & cart paths
 - ✓ **Sprinkler head yardage tags** to fit all automatic systems
 - ✓ **Yardage books** — 1 & 4 color
 - ✓ **Laser measure** per USGA standards
- For more information, references or samples, contact:

**From Tee to Green, Inc.
1707 Brandywine Trail
Ft. Wayne, IN 46845
(800) 932-5223**

SAVE 40% OR MORE!

Buy personalized flags factory direct & save 40% or more. Flagpoles, tee markers, etc. also available. Fast personalized service guaranteed. Call toll free.
1-800-476-7005



**FOUR SEASONS
GOLF COMPANY**

**P.O. Box 78011
Greensboro, NC 27427**

GOLF COURSE NEWS LIST RENTAL

A great opportunity for target marketing important decision makers. Take advantage of our exclusive and timely mailing list as a great marketing tool.

Call Mary Anderson for details.

(813) 898-7077

ADVERTISERS' INDEX

RS#	Advertiser	Page
123	A.S.I.	26
141	Ametek	39
149	The Andersons	52
127	Aquamaster	27
102	Aquatrols	3
137	B.H.Sales	36
112	BASF	17
114	Best Sand	20
117	Brouwer Turf Equip.	21
152	C-LOC Rentention Systems	55
154	Cartrol	55
139	Cedar Chemical	37
132	Ciba-Geigy	32
143	Ciba-Geigy *	42-43
150	Ciba-Geigy	53
162	Ciba-Geigy	68
104	Ciba-Geigy	4-5
156	Club Car	57
171	Contech Construction Products	65
170	Continental Bridge	65
124	Double Springs Grass Farm	26
101	E-Z-GO	2
121	Envirogenesis	24
175	Environmental Compliance Sys.	65
144	Flowtronex/PSI	44
115	Fore Par	20
125	Formost Construction Co.	26
173	Formost Construction Co.	65
191	Furness Golf Construction	67
116	General Services Adminis.	20
147	Golf Course Expo	48
158	Hoechst-Roussel	60
187	Integrated Business Sys.	67
157	ISK Biotech	58
181	Jack Fleck Design	66
106	Jacklin Seed Co.	8-9
165	Jacobsen	72
179	Jesco Products/Pinhigh	66
105	John Deere	6-7
195-99	Kalo	35
126	Kirby Markers	26
129	Lofts, Inc.	30
186	Markers, Inc.	67
172	Master of the Links	65
131	Melex USA	31
134	Melex USA	33
148	Miles Inc.	50-51
103	Millcreek Manufacturing	3
189	Milona Turf Products	67
118	National Mower	22
119	O.M.Scott	23
161	O.M.Scott	64
110	O.M.Scott	14
164	O.M.Scott	71
130	Par Aide	31
107	Partac	11
188	Pavelec Bros. Construction	67
142	PBI/Gordon Corporation	40
178	Precision Small Engine	66
183	Precision Tool Prod. Co.	66
185	Precision Tool Prod. Co.	66
138	Pro-Seed USA	36
174	Qquest Software Systems	65
180	Quail Valley Turf Farm	66
167	Ransomes America Corp. *	42-43
151	Regal Chemical	54
128	Rhone-Poulenc	28-29
140	Rhone-Poulenc	38
146	Rohm & Haas	46-47
113	Sandoz	18-19
160	Sandoz	62-63
111	Smithco	16
159	Smithco	61
145	Southern Corp. Promotions	45
162	Stamos Tool	45
133	Standard Golf	33
163	Tee-2-Green	70
109	Toro Comm'l. Prod. Div.	12-13
135	Toro Comm'l. Prod. Div.	34
184	Trims International Software	66
155	Trojan Battery Co.	56
120	Turfline, Inc.	24
190	Unit Structures	67
153	United Soil Blenders	55
122	Valent *	25
108	Verti-Drain/Emrex	11
176	Yard Edge	65
182	York Bridge Concepts	66

* Appears in regional editions.



Tac goes in after the geese assembled at Fairview Country Club in Greenwich, Conn.

Border collie rids course of irksome geese

By MARK LESLIE

There have been dog super-heroes in the past. Timmy's Lassie... Rusty's Rin Tin Tin... Sergeant Preston's King... But today, in Greenwich, Conn., the Dog of the Hour is Richard Marcks' Tac, who accomplished what no human in town could do: He drove several hundred geese to a new address — out of town. A seven-year-old border collie, Tac (short for Sharp as a



Tac) has ridded Fairview Country Club of 600 troublesome geese — and enjoyed every minute of it.

"This is the hottest thing since peanut butter," said Marcks, property manager at Fairview.

Twelve other area golf courses have bought border collies to rid their properties of geese since seeing Tac at work.

Buying the trained dog was Marcks' brainchild. "Within a month we had the course clean," Marcks said.

Tac, fully trained to herd sheep, took quickly to the geese. Since she loves water, it was no chore for her to swim into the waterways and fetch the flock toward Marcks. Once the geese were brought in tight to him, they flew off.

"After you harass them a few times they leave," he said.

The \$2,000 price tag, Marcks said, "sounds like a lot, but you spend more than that in maintenance and cleanup [of geese]."

Tac and Marcks have gone out on the speakers circuit, demonstrating how they gave the ex-resident geese a new address.

Among the new converts to the Border Collie Remedy are Tamarack, Redding and Sterling Farms country clubs, and Scarsdale and Richter Park golf clubs. Westchester County's Parks and Recreation Department is buying two dogs for its five courses and The Hampshire Club has just ordered one, Marcks said.

"Many superintendents have tried other kinds of dogs but they don't listen well," said Marcks. "The border collies are trained to respond to voice and hand commands and to a whistle."

"Geese will drown a dog. But when a border collie gets in trouble, you can just call them back out of the water."

The Connecticut and New York clubs have been buying the dogs fully trained from a woman in Shipman, Va., who has 25 dogs in her kennel. With so many sales to golf courses, she now trains them on geese as well as sheep.

Marcks said it costs him \$1,000 a year to keep Tac. As well as good workers, border collies make "great companions," he said. "She rides with me on the golf car. And the public relations with the membership is great. They all want to stop and talk to the dog. There's no greater ice-breaker."

Marcks has already prepared for the future, Tac giving birth to pups seven months ago.

"Training him can be a little bit of a pain," Marcks conceded. But cleaning up for geese can virtually be torment.

Penn Pals Profile:

A portfolio of creeping bentgrasses perfect for your plans... from the world's foremost marketer

Scientific name:	Growth habit:	Shade tolerance:	Heat tolerance:	Cold tolerance:	Traffic and wear tolerance:	Seeding rate, greens:	Seeding rate, fairways:
<i>Agrostis stolonifera</i>	Spread by aggressive stolons	Fair	Good	Excellent	Very good	1 to 1 1/2 lbs. per 1000 sq. ft.	Up to 50 lbs. per acre

Penncross

For tees and greens

The standard for creeping bentgrasses since 1955 and still the most specified bentgrass for golf courses. Recovers quickly from injury and divots. Good heat and wear tolerance. First choice of golf course architects and superintendents.

A few fine courses with Penncross greens:

- PGA West Stadium Course
- The Vintage Club
- Troon North Golf Club
- Wolf Run Golf Club
- Eagle Crest Golf Course
- Kananaskis Country Golf course



Penneagle

For fairways

The top performing fairway bentgrass. Germinates quickly. Upright, dense growth habit helps crowd out poa annua. Salt tolerant.

A few courses with Penneagle fairways:

- Oakmont Country Club
- Butler National Golf Club
- Pumpkin Ridge Golf Club
- The Merit Club
- Inverness Club (Toledo)
- Des Moines Country Club



PennLinks

For new greens, green renovation and overseeding

The new standard for putting greens. Upright, dense growth for true putting. Fine texture and heat tolerant.

A few fine courses with PennLinks greens:

- Wilmington Country Club
- Inverness Club (Toledo)
- SandPines Resort
- Prairie Dunes Golf Club
- Baltimore Country Club
- Wild Wing Plantation



PennWay Blend

For fairways and winter overseeding greens

Economical fairway and winter overseeding blend of Penncross, Penneagle and 50% quality creeping bentgrass. Certified PennWay contains Penncross, PennLinks and 70% Penneagle for genetically diversity meeting certification standards.

A few courses featuring PennWay:

- Wakonda Club
- Carlton Oaks Country Club
- Riverwood Golf Club (winter overseeded greens)



PennTrio Blend

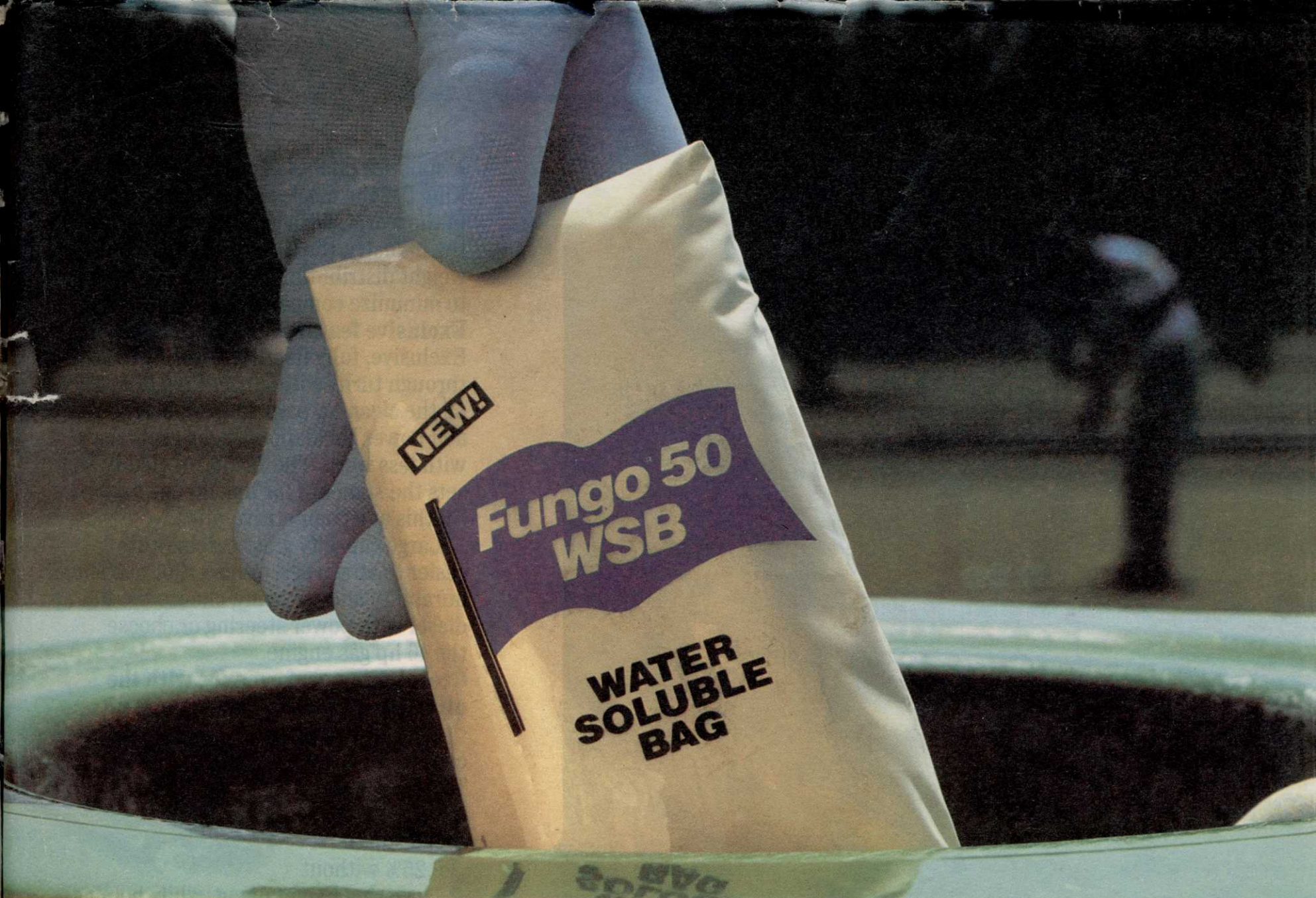
For tees, fairways, greens, and winter overseeding

Certified creeping bentgrass blend with 1/3 each Penncross, Penneagle and PennLinks. All the attributes of a blend with ready-to-seed convenience.

The increasingly popular blend for all around the course, from the world leader and foremost marketer of creeping bentgrasses.



For more information, call or fax: Tee-2-Green Corp., 1-800-547-0255 / FAX 503-651-2351



POWERFUL CONTROL, PERFECTLY PACKAGED.

For years, Fungo® has met your needs for effective control of key turf and ornamental diseases.

Now Fungo is in water soluble bags, responding to your demands for safety and ease of use.

And Fungo WSB is an ideal replacement for Benlate. Its active ingredient, Thiophanate-Methyl, is a direct substitute.

Thanks to its systemic action, a single application of

Fungo WSB provides up to 14 days of control of major turf and ornamental diseases, including Brown Patch, Summer Patch, Necrotic Ring Spot, Red Thread, Dollar Spot, Diplodia, and Anthracnose.

And Fungo WSB is very versatile. It's labeled for use on major turf varieties along with spray applications for

roses, shade trees and woody ornamentals. You can also use it as a drench on annuals and perennials.

Get Fungo WSB from your Scotts distributor today. Or call us toll-free at 1-800-492-8255.

Fungo in water soluble bags—the perfect package for controlling disease.





A superior quality of cut makes the Greens King IV® the most popular greens mower in the world. With the lightest footprint in the industry, the Greens King has the best weight distribution over all three wheels to minimize compaction.

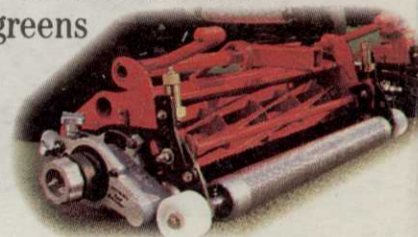
Exclusive features are standard.

Exclusive, fully floating, pivoting reels steer through turns without scuffing or marking on the clean-up pass. Individual reel control and power backlapping keep reels sharp with less work. The Jacobsen quality reel sets the standard for fine greens mowing. All this at a competitive price.

Large capacity grass catchers are easier to attach and remove. For maximum durability and economy, choose the 16½ hp diesel with power steering or choose the 16 hp gas engine.

Greens King performance with the ultimate exclusive: Turf Groomer.®

The only true greens conditioner, the Turf Groomer increases green speeds up to



25% without lowering height of cut, while helping produce truer, healthier greens.

All-new GreenSentry™ helps you maintain a spotless reputation.

Our new oil leak detector option — GreenSentry — helps prevent nasty little oil leaks from staining your reputation in a big way.



For picture perfect results every time, the King reigns supreme. To see for yourself, ask your Jacobsen distributor for a demonstration.

THE PROFESSIONAL'S CHOICE ON TURF.

**JACOBSEN
TEXTRON**

Jacobsen Division of Textron Inc.

**IN THIS DOMAIN,
THE KING REIGNS SUPREME.**