

# GOLF COURSE NEWS

THE NEWSPAPER FOR THE GOLF COURSE INDUSTRY

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## INSIDE

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More courses are being built in the United States than ever before ..... 3

### Utility Vehicle Update

Versatility drives the manufacturer as well as sales among golf superintendents ..... 22



**JONES, BUSH TOUR SHADOW HAWK**  
HOUSTON — Rees Jones (left) visited Houston recently to survey the progress of the Shadow Hawk Golf Club and give President George Bush (right) a walking tour of the course Jones is designing for The Redstone Group.

### COURSE MAINTENANCE

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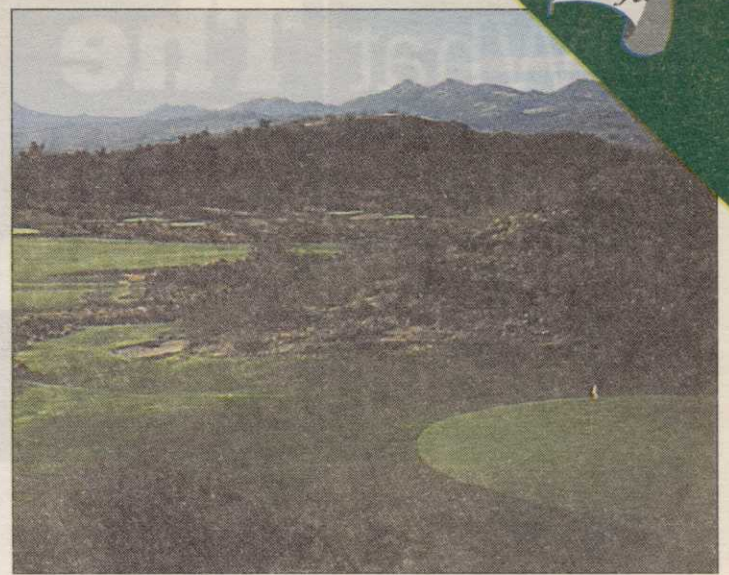
## ASGCA panel targets dangers to the health of golf

By MARK LESLIE

CHARLESTON, S.C. — Trying to head off dangers to the health of golf, leaders of the game's major associations are targeting equipment and balls that add too much distance, the cost to play, the "intimidation factor" in learning, and attracting and keeping new golfers.

Speaking at the annual conference of the American Society of Golf Course Architects here, U.S. Golf Association (USGA) President F. Morgan "Buzz" Taylor warned that, if measures are not taken, golf's popularity could sink like tennis's. It was an ominous statement, illustrated by the fact that NBC Sports is dropping its contract for coverage of Wimbledon because "it can't sell the time," Taylor said.

Similar remarks, pointed toward fixing any holes in the dike of the expanding sport of golf, came from PGA of America Executive  
**Continued on page 27**



### NEW DOAK TRACK RISES ABOVE PHOENIX

GLOBE, Ariz. — Golf course architect Tom Doak ventured west of the Mississippi River for the first time to design Apache Stronghold for the San Carlos Apache Nation to augment its Apache Golf Casino. Doak had a couple thousand acres of land to choose from in designing what he called "a newfangled" type of course for the desert. This photo of the 4th hole shows its wide fairways and rough along the edges instead of the norm: instantly going from manicured to desert. See page 23.



### AN "UNPLAYED" DYE CANVAS

The cornerstone of a new luxury community in suburban Savannah, Ga., called Ford Plantation, features a golf course Pete Dye designed in 1983 for a wealthy Saudi Arabian. The public has never played this course, which Dye describes as one of his best Southern layouts. Dye's flamboyance is obvious on this hole on the plantation's Ogeechee Golf Club, formerly called Sterling Bluff. See story, page 24.

## USGA turns over U.S. Open management reins

By PETER BLAIS

PINEHURST, N.C. — The United States Golf Association (USGA) has handed over responsibility for managing June's U.S. Open at Pinehurst No. 2 to an outside party — Pinehurst Championship Management (PCM).

PCM is the sports mar-

keting division of ClubCorp, the Dallas-based firm that owns and operates Pinehurst. PCM will be responsible for everything from handling transportation issues to developing corporate partners.

The USGA will retain control over what occurs "inside the ropes," according to the USGA's Tim Moraghan, who oversees course preparation for U.S. Open events for the USGA Rules and Competition Committee.

"Outside the ropes," said PCM head Jon Wagner, "everything with regard to marketing, corporate hos-  
**Continued on page 37**

### ALTERNATIVE ENERGIES

## Metallic Power gets \$350,000 boost for zinc/air power

By MICHAEL LEVANS

SAN DIEGO — Metallic Power Ltd. has been awarded a \$350,000 contract from the California Energy Commission's South Coast Air Quality Management District to demonstrate a prototype zinc/air fuel cell-powered riding electric greensmower by January 2000.

The company will collaborate with the Toro Co. on the project.

"With this contract we're now on a rapid trajectory to develop the zinc/air fuel cell technology," said Jeff Colborn, Metallic Power's chief executive officer. Founded in 1995, the company has won more than \$1.5 million in government research and development contracts.

The zinc/air fuel cell combines zinc pellets, approximately 1 mm in diameter, with oxygen.  
**Continued on page 41**



# What they're saying about **The New Penn Pals**

"Penn A-4 enhances the game of golf. It is my personal feeling that Penn A-4 is one of a number of significant contributions to the game of golf by Dr. Joe Duich." "Awesome."

**Cutler Robinson**, CGCS, Supt.  
Bayville GC, Virginia Beach, VA

"Simply stated, everyone who has played Bayville comments the greens are 'the best they have ever puttied.' This grass allows our members to experience 'tour' quality putting and green speed without jeopardizing fairness and enjoyment. Properly managed, Penn A-4 is, in my opinion, the best grass to date and has set a new standard for excellence."

**Dean Hurst**, PGA Professional  
Bayville GC, Virginia Beach, VA

"Even though summer temperatures can reach 115-120°, we've cut our Penn A-4 at 7/64" for more than a year with no problems."

**Doug Anderson**, CGCS, Supt.  
The Vintage Club, Palm Desert, CA

"For me, the lower the cutting height, the better the management (Penn G-6)."

**Pete Gerdon**, Supt.  
Grandfather Golf and CC, Linville, NC

"Because of the short season at our 7,500 ft. elevation, we sodded our rebuilt greens with 42" wide rolls of Penn A-4 from West Coast Turf in California.

There, we found a source for rootzone sand that closely matched our own, and the long, wide rolls minimized seams. We re-opened 5 weeks after sodding, and dense, fibrous roots reached 10-12" in a matter of months."

**Kevin Ross**, CGCS, Supt.  
CC of the Rockies, Edwards, CO

"Quality of the Penn A-4 putting surfaces at The Estancia Club is beyond comparison. Ball roll and the pace of the greens are excellent. I would not hesitate using Penn A-4 again."

**Carl Rygg**, CGCS, Supt.  
The Estancia Club, Scottsdale, AZ

"Penn A-4 Greens do not cost more. While they do need more topdressing and aerification, they require significantly less water, fertilizer, and pesticides."

**Ted Hunker**, Supt.  
Tartan Fields GC, Dublin, OH

"We've overseeded Penn G-6 into our Poa/bentgrass greens after aerifying a total of five times. We fill the holes within 1/4 to 1/8" with sand, seed with one lb. per 1,000 sq. ft., then topdress. When the Poa stresses under heat pressure, Penn G-6 will re-populate that area."

**John Lof**, Supt.  
Michelbook CC, McMinnville, OR

"Penn A-4 greens do not mean more work, more trouble, and do not cost more money to maintain. In fact, just the opposite may be true. We have found that they require fewer cultural practices such as vertical mowing and brushing.

In two years of managing Penn A-4, we have not observed any brown patch or dollar spot, and greens require limited amounts of fertilizer."

**Kurt Thuemmel**, CGCS, Supt.  
Walnut Hills CC, East Lansing, MI

"I overseed our 18 old greens with 1/4 lb. per 1,000 sq. ft. of Penn A-4 each time we aerify. Now, with single cut and roll, our green speeds are consistently fast at 12 to 12-1/2'. Where ball marks tend to tear older bents, they just make dents in Penn A-4."

**Pat Franklin**, Supt.  
Plum Creek CC, Fishers, IN

"We resodded high stress areas in our PennLinks fairways with Seaside II, and are very pleased with its performance. I selected Seaside II with improved dollar spot disease resistance and salt tolerance to address two major turf challenges; the coastal influence and potential sodium buildup from irrigation.

We find Seaside II a strong ally to our PennLinks fairways, and in the future, will slit seed with Seaside II where needed to enhance turf quality."

**David Major**, CGCS, Supt.  
Del Mar CC, Rancho Santa Fe, CA

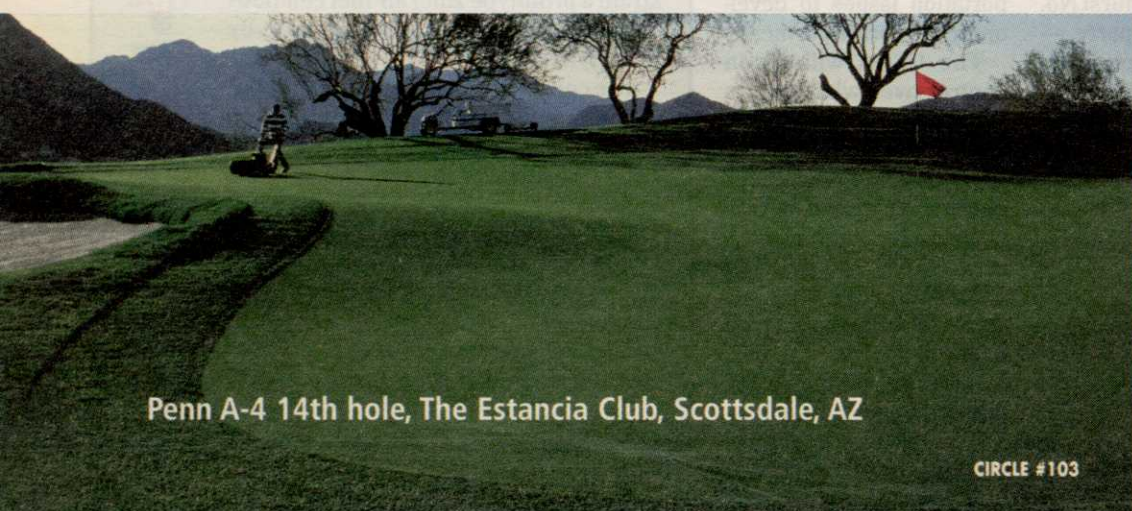
"We have 36 putting greens and 4 practice greens that have been converted from Toronto C-15 to Penn A-4 Creeping bentgrass.

When the greens were placed in play the spring after conversion, comments from our golfing membership were very positive even though turf maturity had not been reached. Putting trueness and turf appearance were among the positive remarks most often mentioned. Now that the putting surfaces have additional development, comments are the greens are superior to anything they've played."

**Bill Byers**, CGCS, Supt.  
Des Moines G & CC, West Des Moines, IA

"Comments from golfers have been extremely positive (Penn G-2)."

**Jeff Hill**, CGCS, Supt.  
Pinehurst Resort and CC, No. 8, Pinehurst, NC



Penn A-4 14th hole, The Estancia Club, Scottsdale, AZ

Penn A-1  
Penn A-2  
Penn A-4  
Penn G-1  
Penn G-2  
Penn G-6  
Seaside II  
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## BRIEFS

**EAST AMWELL TOWNSHIP, N.J.** — Tom Fazio is set to begin work on an 18-hole, private layout at The Ridge at Back Brook this fall. The course will meander across 300 acres of varied terrain and Back Brook stream, said developer Joel Moore. According to Fazio, the course has 25 to 30 exceptional natural settings for golf holes. The course, in addition to a clubhouse and practice range, is slated to be completed in summer 2001.

•••

**PALMA SOLA, Fla.** — The Estuary has received approval from the Manatee County Commission following lengthy negotiations with commissioners. The project, which is being developed by Robinson Farms, Inc., is slated to include an 18-hole course and 448 homes. The development of the Estuary had been held up due to environmental and drainage concerns and confusion over a county-owned right of way. Robinson Farms won the commission over when it announced plans to restore shoreline buffers and reconnect 100 acres of mangroves with the tidal system of the Perico Bayou.

# Record number of courses under construction in U.S.

**JUPITER, Fla.** — According to the National Golf Foundation's latest annual report on facility development in the U.S., in addition to the 448 courses that opened last year, there were an additional 1,069 courses under construction as of Jan. 1, 1999, of which 870 are scheduled for completion this year.

And there are another 708 courses across the country that are in the planning stage of development. This is the third straight year and only the fourth

time since 1990 that the "in planning" total has eclipsed 700.

In looking at the probability of 870 new courses coming on line in 1999, National Golf Foundation historical data shows that less than 60 percent of construction projects in any given year meet their original completion dates.

Consequently, the projected number of courses that will open in 1999 may be closer to 500 which would still surpass the 1995 record by a wide margin.

Speaking of records, the 1,069 courses under construction at any one point in time is an all-time high. The previous mark was 932 set in 1997.

NGF Research Manager Jim Kass points out, "if just a few more of the courses that were scheduled to open last year had met their completion dates, 1998 would have been the record year everyone had expected it to be." "However," says Kass, "last year was one of extremes for bad weather, and delays were encountered almost everywhere. As a result, a fair share of courses with late 1998 completion dates were forced to slip over into 1999. This was especially true for projects in the northern parts of the country."

As has been the case throughout most of the past 10 years, a significant number of courses coming online in 1998 were nine-holers. Last year, they accounted for 54 percent or 241 of the 448 courses built. And of these, nearly 60 percent were additions to existing facilities.

"Among other things," says Kass, "this tells us that a fair amount of the new facilities are being opened nine holes at a time. At the same time, it also says that

*Continued on page 7*

### Courses opened in 1998

Rank	State	Courses
1	Michigan	34
2	Florida	33
3	California	21
4	Pennsylvania	19
5-T	Indiana	18
5-T	Georgia	18
7-T	Illinois	17
7-T	Wisconsin	17
9-T	Minnesota	16
9-T	North Carolina	16
9-T	Virginia	16

### Courses under construction (as of 12/31/98)

Rank	State	Courses
1	Florida	81
2	California	79
3	Michigan	63
4	New York	54
5	Texas	52
6-Tied	Pennsylvania	43
6-Tied	Ohio	43
8	Georgia	38
9	Wisconsin	36
10	Virginia	35

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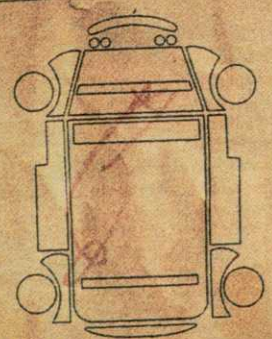
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## Fla. owners hold town meeting

ORLANDO, Fla. — How golf course owners can retain players, entice new players and make golfless intimidating were some of the issues discussed at the first in a series of Florida Golf Course Owners Association town meetings.

Course owners, business executives, lawmakers and members of the media gathered at the Grand Cypress Resort for a roundtable discussion moderated by Bruce Florine, vice president of marketing and communication for the National Golf Foundation. The meeting's purpose was to expand awareness of the future of golf as discussed in the report "A Strategic Perspective on the Future of Golf" produced by the NGF and McKinsey & Co.

The report indicated a "demand gap" (more courses than player requirements) will exist by the end of the next decade unless the golf business does a better job of attracting new players to the game, and retaining the new golfers it attracts by reducing

## Tenn.'s Legends Ridge may take on partner

FRANKLIN, Tenn. — The developer of Legends Ridge, an upscale community under construction here, is taking on a partner, according to *The Tennessean*.

Developer Dave Terry will remain the sole owner of the residential development portion of the project, with a partner coming aboard on the golf portion.

Olympus Real Estate and Legends Ridge will become partners in the golf course, providing \$7 million of equity, Terry said. Arnold Palmer Golf Management will operate the course.

The course is scheduled for completion by the end of 1999 and will open for play in spring 2000. The golf facility will cost \$11 million to \$13 million. When completed, there will be 137 lots.

### NH RESTORATION UNDERWAY

WHITEFIELD, N.H. — Kevin Craffey, owner of the Hanover, Mass.-based contracting firm Craffey and Company, has begun restoration on the Mountain View Inn and Country Club here. Craffey bought the resort early this year and aims to restore the resort, which had been closed for the past 12 years, to its former glory. Greens and fairways are being reconditioned and upgraded and the clubhouse is being completely renovated. The course will be open to the public Memorial Day weekend.

the intimidation factor of the sport.

The next two FGCOA town meetings are scheduled for early June in the Naples/Fort Myers area, and at the FGCOA state convention August 16-18 at The Bonaventure Golf Resort in Fort Lauderdale. For more information, contact Kim Morin, membership director, at 407-330-5895.

## Scottish architects' work set for summer unveiling in S.C.

YEMASSEE, S.C. — Cherokee Plantation here in Colleton County is on schedule to open this summer. Located along the banks of the Combahee River in South Carolina's Lowcountry, the international golf and sporting/hunting club is being built by Peter de Savary, chairman of Carnegie Clubs, Skibo Castle in Dornoch Scotland.

Scottish architects Donald Steel and Tom

Mackenzie are designing the private club's course. A renovated brick, Georgian plantation house will serve as the clubhouse.

Fifty limited partnerships are among the initial offering, along with the 25 being held by the general partner. Cherokee will make shares available to select individuals by invitation, with the intent to achieve a diverse, international ownership.

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## O'Meara makes design debut in Canada

ORLANDO, Fla. — ClubLink Corp. announced that 1998 Masters and British Open Champion Mark O'Meara will make his debut as a golf course designer at ClubLink's Grandview Inn property in the Muskoka region just north of Toronto.

This will be the first course at the 850-acre Grandview property in Hunstville, Ontario. The site features numerous rock formations

and scenic vistas of Ontario's Muskoka wilderness. The routing plan will integrate beaver ponds, waterfalls and marshes into the golf course design.

O'Meara will be teaming up with Brit Stenson of International Management Group's golf course design team, IMD, to complete the course design. Construction is expected to begin this fall.

## GolfVisions opens S'West office

CHICAGO — GolfVisions, a golf course construction and management firm based in Northbrook, Ill., has launched GolfVisions Southwest and named industry veterans Monty Montgomery and Don Bingham to leadership roles.

Montgomery joins GolfVisions as executive vice president and

is spearheading the company's construction and business development activities in the west and southwest portions of the United States. His 28-year career in the golf industry includes six years of project management experience with Robert Trent Jones International and 15 years with Greenscape, Ltd., serving first as a project manager and then as director of field operations. Since 1995, Montgomery's resume includes a stint with course builder Paul Clute and Associates and Crown Golf Construction.

Bingham, meanwhile, joins GolfVisions as a business development associate. He entered the golf industry in 1989 on the operations side, working as an assistant general manager for American Golf facilities. In 1991, Bingham moved into project management with Dye Design, a role that required him to oversee all facets of design, shaping and overall construction of a number of prestigious courses. Since 1994, he has pursued golf course development.

In addition to Montgomery and Bingham, GolfVisions recently added a top shaping duo to the team. Dan Pepin and Jim King, who have played a key role in the construction of courses for many premier architects.

For more information, call GolfVisions at 847-412-9990.

## Smyers at work in central Fla.

ORLANDO, Fla. — Steve Smyers has designed an 18-hole, course at Golf Communities of America's newest property, Hillcrest Country Club, in Lake County. Construction is expected to be completed by the fourth quarter of 1999 and ready for play by January 1, 2000.

The Hillcrest development consists of 430 acres of mixed-density, single-family home sites with 120 acres dedicated to a championship course. It will be an unusual layout for Central Florida with rolling terrain and dramatic elevation changes.

Golf Communities of America acquires, develops and operates public, private and resort golf properties and associated residential communities throughout the United States.

### CORRECTION

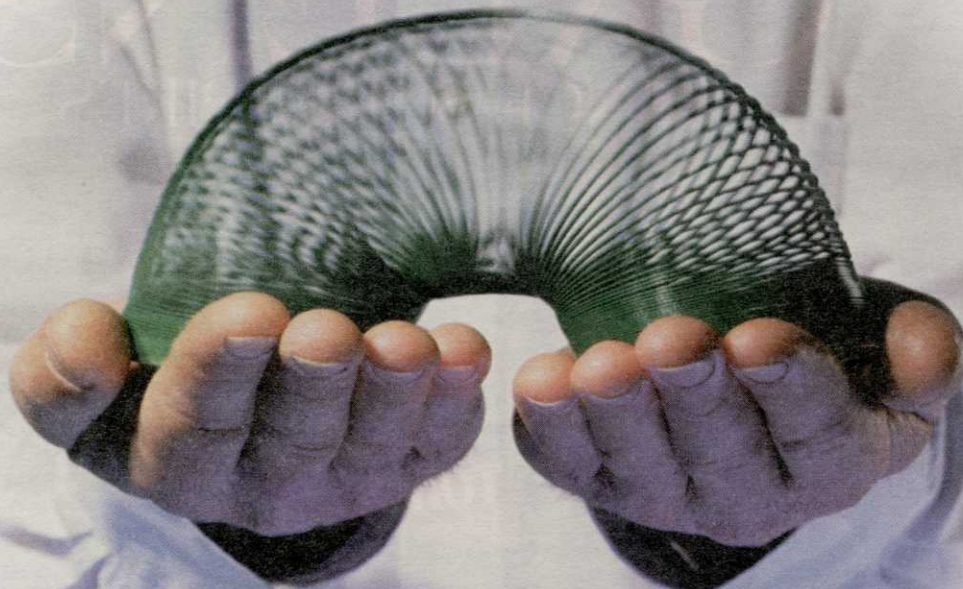
An article in the March issue of Golf Course News incorrectly identified the builder of a course in Freeport, Fla. The actual builder is AKW Golf of Hattiesburg, Miss. A 600-lot residential community named Magnolia Bluff will be part of the golf course community.

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# Dye donates design to Wis. monks

By ANDREW OVERBECK

SPARTA, Wis. — Architect Pete Dye has teamed up with monks at the Our Lady of Spring Bank Cistercian Abbey, here, to design a public access golf course on 200 acres of monastery property.

Local businessman David Colbert has committed the remaining 100 acres to the project, which is tentatively set to begin construction this August.

Dye agreed to waive his de-

sign fee for the course, which is being built by the monks as a means to remain self-supporting.

The monks, who are now living off the interest from a trust fund, recently figured that the trust income will eventually fail to sustain them.

Along with Colbert, the monks conducted a feasibility study that

showed that a public, daily-fee course could be supported by the community and tourism traffic. The monks are betting that the golf course will provide them with a steady source of income for years to come.

The 18-hole course will be all bentgrass, feature five sets of tees and is slated to be 7,475 yards long, one of the longest courses in the Upper Midwest.

"They have a beautiful piece of land, and it has nice sandy soil," said Dye.

Dye has already drawn out the preliminary routing for the course, but maintains that the next step in the development process is going to hinge on getting the construction financed.

"The only way the course is going to work for them is if they go into golf course operation

debt free," Dye said of the proposed golf course facility.

"They have to be able to run that thing and make a living off it. I'm not about to go in there and get them into debt and have them lose their land."

Dye plans to work with other golf-related companies in the coming months to raise funds to finance the construction of the golf course.

## New courses

Continued from page 3

more and more nine-hole courses today are expanding to meet increased local demand." As Kass is quick to point out, roughly 35 percent, or 5,600 of the nation's total golf course supply, is comprised of nine-hole layouts.

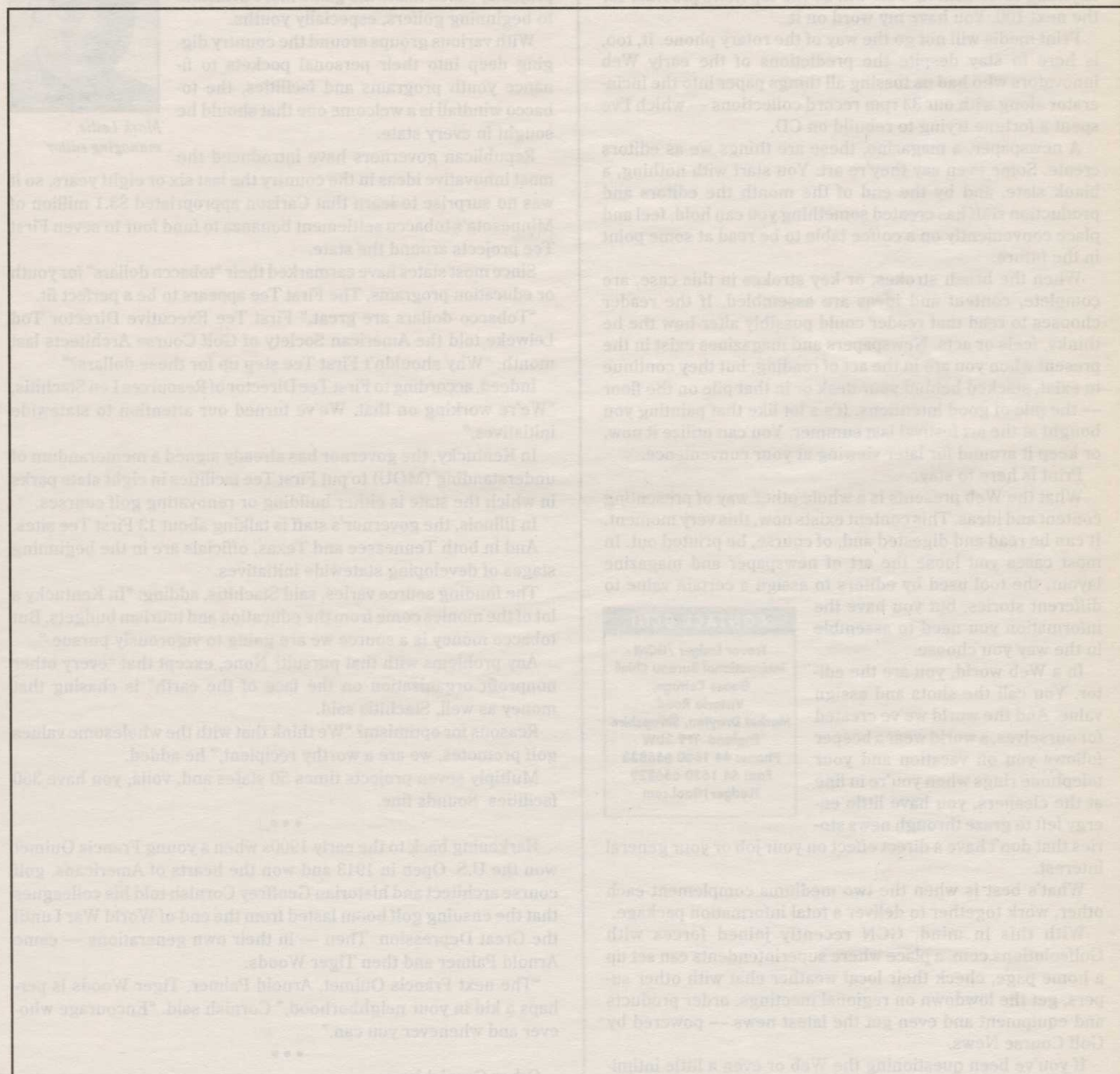
The new NGF facilities report provides updated information and a number of other statistical insights into the health and direction of golf course development in the United States. Among them:

- **18-hole Equivalents**—Because it contained such a high number of nine-hole courses, the 448 courses coming on line in 1998 were equivalent to 327.5 18-hole courses.

- **Hot Spots** — Michigan, Florida and California were once again the leaders in new construction activity. As has been the case for several years now, these three states accounted for roughly 20 percent of all projects that were either completed or began construction in 1998. Also among the top 10 in both categories for 1998 are Pennsylvania, Georgia and Wisconsin.

- **Public vs. Private** — Following the trend of the past 25 to 30 years, the vast majority [86 percent or 386] of the new courses built last year were public access and, of these courses, more than 90 percent were daily-fee. The report also shows that the number of private courses in the United States increased by only 10 in 1998, the lowest net gain in several years.

- **Real Estate** — Approximately 40 percent or 178 of the golf course development projects completed last year were part of housing developments. Although this percentage is somewhat less than the 60 percent it was 10 years ago, it underscores the fact that the real-estate market continues to be a significant force in golf course development. As it has for many years now, Florida once again led all states with 30 new real-estate related courses. Michigan and North Carolina were next with 13 and 10, respectively.



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\*NTEP data available upon request. Based on 1997 report.

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## GCN, print media and the World Wide Web



Michael Levans,  
editor

In my humble opinion, *Golf Course News* has been the best news content provider in the golf course industry for the past 10 years. And if I have anything to do with it, *GCN* will be the top news provider for the next 100. You have my word on it.

Print media will not go the way of the rotary phone. It, too, is here to stay despite the predictions of the early Web innovators who had us tossing all things paper into the incinerator along with our 33 rpm record collections — which I've spent a fortune trying to rebuild on CD.

A newspaper, a magazine, these are things we as editors create. Some even say they're art. You start with nothing, a blank slate, and by the end of the month the editors and production staff has created something you can hold, feel and place conveniently on a coffee table to be read at some point in the future.

When the brush strokes, or key strokes in this case, are complete, content and ideas are assembled. If the reader chooses to read that reader could possibly alter how the he thinks, feels or acts. Newspapers and magazines exist in the present when you are in the act of reading, but they continue to exist, stacked behind your desk or in that pile on the floor — the pile of good intentions. It's a lot like that painting you bought at the art festival last summer. You can utilize it now, or keep it around for later viewing at your convenience.

Print is here to stay.

What the Web presents is a whole other way of presenting content and ideas. This content exists now, this very moment. It can be read and digested and, of course, be printed out. In most cases you lose the art of newspaper and magazine layout, the tool used by editors to assign a certain value to different stories, but you have the information you need to assemble in the way you choose.

In a Web world, you are the editor. You call the shots and assign value. And the world we've created for ourselves, a world wear a beeper follows you on vacation and your telephone rings when you're in line at the cleaners, you have little energy left to graze through news stories that don't have a direct effect on your job or your general interest.

What's best is when the two mediums complement each other, work together to deliver a total information package.

With this in mind, *GCN* recently joined forces with *Golfsolutions.com*, a place where superintendents can set up a home page, check their local weather chat with other superiors, get the lowdown on regional meetings, order products and equipment and even get the latest news — powered by *Golf Course News*.

If you've been questioning the Web or even a little intimidated by it, I suggest you check out the site and come to your own conclusions about the Web and its uses.

- Speaking of new technologies, I had a blast reporting on the *Terresolve's* soy-oil (see page 39) and *Metallic Power's* zinc/air fuel cell (see cover) stories this month. Rare are the times that you find an innovation in one industry that's destined to stir others. Soy engine oils and batteries that run on zinc pellets — great ideas with huge barriers to hurdle. Yet these are the stories that stick out in our minds and eventually form the future. It will be fun to chart the progress as both of these companies attempt to gain acceptance.

- I've heard superintendents mention it over and over, but I never thought I'd hear it first hand. My fiancée joined me as I viewed the MCI Classic at Harbor Town Golf Links — a course that I played countless times on vacations as a youth, a course that's near and dear to my heart. As Payne Stewart addressed a ball on the grueling and beautiful 16th, she said, "That course isn't as green as Augusta." I explained and told her that I still loved her.

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## Turning cigarettes into golf clubs: a stroke of genius

**A stroke of genius:** Turning a smelly, cancer-causing, room-polluting substance — tobacco — into the benefactor of something refreshing, timeless and downright wholesome.

**The genius:** Minnesota's governor before Jesse Ventura took office: Arne Carlson.

**The act of genius:** Using states' tobacco company settlements to fund new First Tee projects, which make the game more available to beginning golfers, especially youths.

With various groups around the country digging deep into their personal pockets to finance youth programs and facilities, the tobacco windfall is a welcome one that should be sought in every state.

Republican governors have introduced the most innovative ideas in the country the last six or eight years, so it was no surprise to learn that Carlson appropriated \$3.1 million of Minnesota's tobacco settlement bonanza to fund four to seven First Tee projects around the state.

Since most states have earmarked their "tobacco dollars" for youth or education programs, The First Tee appears to be a perfect fit.

"Tobacco dollars are great," First Tee Executive Director Tod Leiweke told the American Society of Golf Course Architects last month. "Why shouldn't First Tee step up for those dollars?"

Indeed, according to First Tee Director of Resources Len Stachitis, "We're working on that. We've turned our attention to statewide initiatives."

In Kentucky, the governor has already signed a memorandum of understanding (MOU) to put First Tee facilities in eight state parks in which the state is either building or renovating golf courses.

In Illinois, the governor's staff is talking about 13 First Tee sites.

And in both Tennessee and Texas, officials are in the beginning stages of developing statewide initiatives.

The funding source varies, said Stachitis, adding: "In Kentucky a lot of the monies come from the education and tourism budgets. But tobacco money is a source we are going to vigorously pursue."

Any problems with that pursuit? None, except that "every other nonprofit organization on the face of the earth" is chasing that money as well, Stachitis said.

Reasons for optimism? "We think that with the wholesome values golf promotes, we are a worthy recipient," he added.

Multiply seven projects times 50 states and, voilà, you have 350 facilities. Sounds fine.

•••

Harkening back to the early 1900s when a young Francis Ouimet won the U.S. Open in 1913 and won the hearts of Americans, golf course architect and historian Geoffrey Cornish told his colleagues that the ensuing golf boom lasted from the end of World War I until the Great Depression. Then — in their own generations — came Arnold Palmer and then Tiger Woods.

"The next Francis Ouimet, Arnold Palmer, Tiger Woods is perhaps a kid in your neighborhood," Cornish said. "Encourage whoever and whenever you can."

•••

Other Cornishisms:

- "A golf architect who hasn't studied the links is like a divinity student who hasn't studied the Bible."
- "There have never been so many young dynamic architects as today." (Cornish said that in 1939 only 41 course architects were working in North America. Today there are more than 400.)

•••

One member of Country Club of Charleston said of the famous 11th hole: "It's the only par-3 hole I've ever played that I don't wait for the foursome in front of me to get off the green."

•••

So, the Stimpmeter Epidemic (related to the Augusta National Syndrome) continues unabated. The latest evidence: A green committee chairman was seen with his own Stimpmeter in hand, checking green speeds on his course.

Where will it end? I can see it now. The year is 2002 and Bernhard Langer, instead of just plumb-bobbing, pulls his trusty Stimpmeter from his bag before determining the direction and force of his putt...



Mark Leslie,  
managing editor

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## Hyundai invests in N. Korean golf development

BY ANDREW OVERBECK

### NORTH KOREA

• **CHANGJON PORT** — The South Korean Hyundai group announced plans Jan. 15 to invest \$397 million by the year 2000 to develop a resort on Mt.

Kumgang on the country's north east coast outside of the Changjon Port area and just south of the Chinese border. The proposed international resort will include two golf courses, four hotels, two beaches and a ski resort. Hyundai's Asan Company will undertake the development.

The first phase of the development is due to be completed in June 1999 and will include restaurants, shops, a performance hall, hotels, hot springs and an immigration control office. 45 holes of golf will be built in the Samilpo and Tongchon regions and are due to be completed in December 2000. A 400-room condominium and a 700 room hotel are also included in the second phase of the project.

Hyundai will reportedly pay North Korea \$942 million over the next six years in return for rights allowing South Korean tourists to visit Mt. Kumgang and Asan Company's right to develop the project.

### PHILIPPINES

• **ILOILO CITY** — Buyers of proprietary shares of the Presidio Royale Golf and Country Club in Jaro, Iloilo are suing the Armed Forces of the Philippines Retirement and Separation Benefits Systems (AFP-RSBS) for committing a breach of contract when it failed to develop the 437 acre property into an 18-hole golf course and country club. The buyers, who have already paid as much as 310,000 pesos (@ \$ 8,000) each, were assured in October 1997 that the project would proceed as planned and the AFP-RSBS promised that a tee pavilion, practice range, restaurant and function room would be built by early 1998. So far no work has been done on the site.

The complaint alleges that the sale of golf shares was illegal and fraudulent because the AFP-RSBS had not registered the share offering with the Securities and Exchange Commission before they were sold.

The AFP-RSBS is reportedly inviting interested parties to purchase the land and is alternatively looking for a foreign partner to develop the property.

AFP-RSBS has developed other golf clubs in the Philippines including Orchard Golf and Country Club in Cavite, Riviera Golf and Country Club in Silang and Eastridge Golf and Country Club in Batangas.

### SINGAPORE

• Plans are reportedly underway for an 18-hole expansion to the existing 27-hole Safra Resort and Country Club. The course is sited on approximately 137 acres along the banks of the Kranji Reservoir not far from where the Warren Golf and Country Club is being re-sited.

Negotiations are currently underway between the Safra Resort and government agencies. Although there has been some opposition to the proposed development, the new course fits existing land use policies in land strapped Singapore that allow golf courses to be built on land not suitable for housing or commercial purposes.

### VIETNAM

• **SAIGON** — Saigon Development Joint Stock Company's (Sadeco) Ben Luc development continues to take shape along the Saigon South Parkway. 1998 saw the site clearance and compensation of displaced families in order to make room for the project that will include residential, commercial and industrial components in addition to a golf course and en-

tertainment complex.

Sadeco officials hope to attract more foreign investors to the project in 1999. They recently signed a contract with a Swiss partner to construct the 100 acre, \$120 million entertainment complex tentatively called Saigon Entertainment World.

Send updates on Asian golf course projects to Andrew Overbeck. aoverbeck@unitedpublications.com

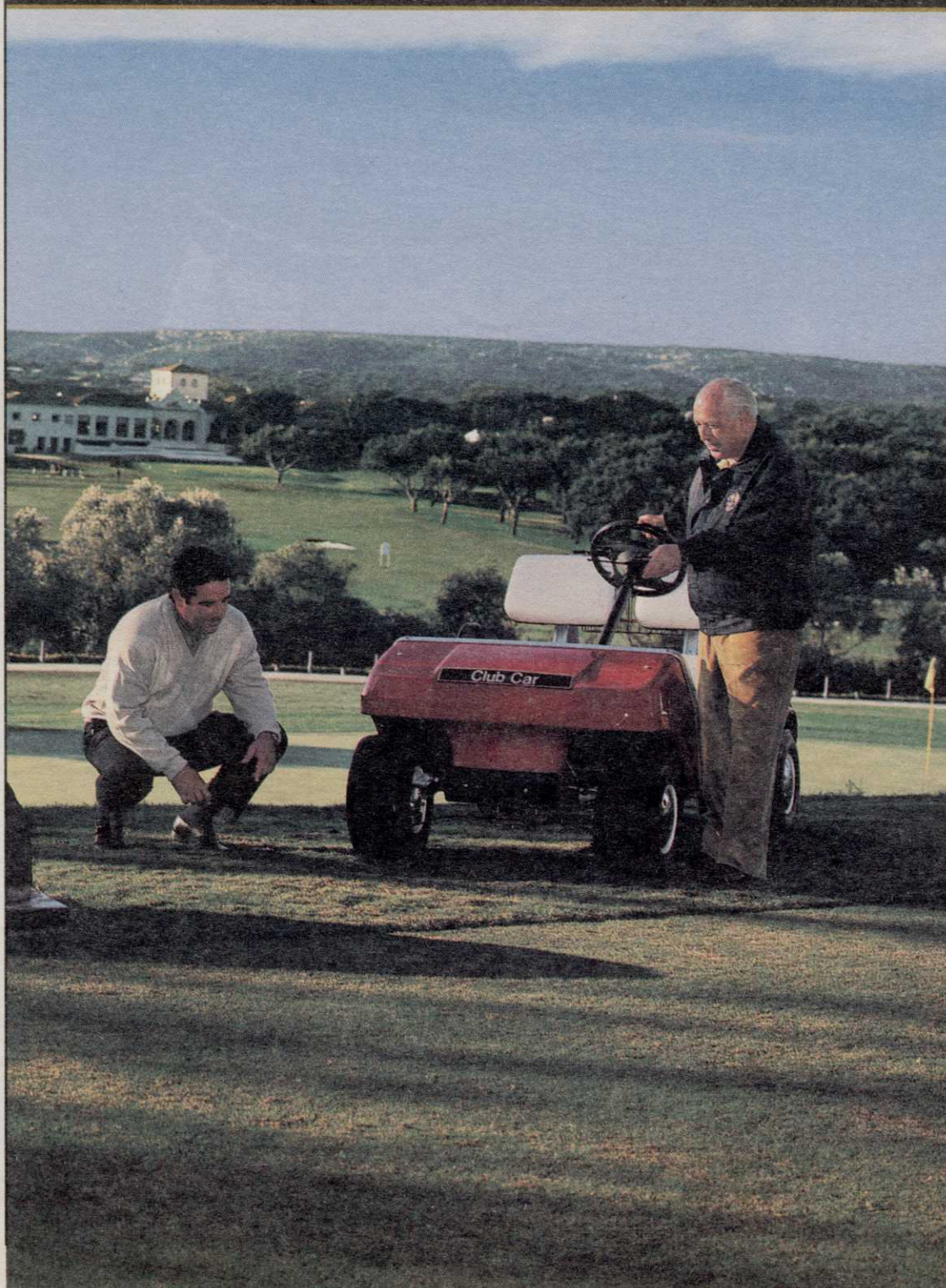
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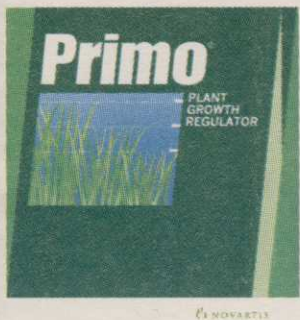
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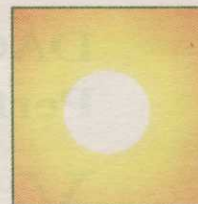


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BRIEFS



**PTC AWARDS \$175,000 FOR RESEARCH**

The Pennsylvania Turfgrass Council has announced allocation of funds to Penn State for the 1998-99 fiscal year. The \$175,000 research grant brings to almost \$2.5 million the council has donated to Penn State over the years. The funds will support research projects in the departments of agronomy, entomology, and plant pathology. It will also support eight scholarships and awards granted to undergraduate and graduate students.



**PA. SCHOOLS SIGN AGREEMENT**

STATE COLLEGE, Pa. — Penn State University's two-year Golf Course Turfgrass Management Program has worked out an articulation agreement with Penn College of Technology which allows all graduates of the two-year turf program to complete an associate degree. Penn College of Technology is a Penn State affiliate located in Williamsport. The agreement allows any certificate program graduate to continue studies at the Williamsport campus. By completing two semesters and required classes, the student would be awarded an associate degree in landscape technology with an emphasis in turfgrass management. For further information, contact Rich Weilminster at Penn College at 717-320-8038, extension 3534, or George Hamilton at Penn State at 814-865-3007.



**PURDUE GETS \$146,000**

INDIANAPOLIS — At the Midwest Turf Expo here, the Midwest Regional Turf Foundation (MRTF), whose mission is to support turfgrass research and education at Purdue University, presented a check to the Purdue Department of Agronomy for \$146,000 for annual support of the turfgrass program, and an additional check for \$100,000 to help complete the W.H. Daniel Turfgrass Research and Diagnostic Center. Steve Frazier of the Links Group was given the 1999 Distinguished Service Award, the highest honor given by the Midwest Regional Turf Foundation. The award is presented to an individual who has gone above and beyond the call of duty for the turf industry of Indiana. Next year's Turf Expo will be held Jan. 18-20 in Indianapolis. For more information, contact 765-494-8039.

**New England Turf Show presents solutions**

Take-all patch may have met its match, says Rutgers professor

By ANDREW OVERBECK

PROVIDENCE, R.I. — After three years of research, Dr. Bruce Clarke of Rutgers University has developed a new approach managing take-all patch that introduces new management practices, and recommends properly timed and rotated cultural practices.

Since identifying *gaevmannomyces graminis* in the Pacific Northwest in the late 1970s, superintendents on bentgrass golf courses have struggled to control what they commonly call take-all patch. The perennial root disease, which is identified by large doughnut-shaped patches of damaged turf, is especially difficult to combat because by the time symptoms are evident, the disease has been present for six to eight weeks.

Knowing that, however, is one of the keys to controlling take-all

Continued on page 14



Pebble Beach's safety program reduces on-course accidents

By ANDREW OVERBECK

PROVIDENCE, R.I. — Working with the theory that every accident could have been prevented, Pebble Beach Vice President of Resource Management Ted Horton has developed a workplace safety program he feels every golf course could use.

"You must have the mindset that every single accident could have been prevented and that you as the superintendent have the opportunity to prevent them," Horton told an audience at the New England Turfgrass Conference and Show here.

His latest program, STOP for Safety, emphasizes observation skills on the part of superintendents and works to improve communication between superintendents and their employees.

"This program ensures that the entire workforce will be

Continued on page 15

**Baker's Dozen:**

Young crew keeps The Links atop pack

By TERRY BUCHEN

WILLISTON (RAY), N.D. — Nicole Baker once rode her horse on this land, enjoyed picnics here, grew up. Today she may be the youngest golf course superintendent in the country, charged with maintaining the standards of a golf course named No. 2 Best New Affordable Course in the country when it opened in 1996, and striving to establish her place in a man-dominated profession.



"Some people were skeptical that a 21-year-old woman superintendent with a 19-year-old assistant could do the job," Baker said. "But with our previous experience and what my assistant, Cory Anderson, calls 'a young course with young minds,' we have prevailed with good success."

Indeed, The Links retains its ranking



The 8th hole, a par-3 with a backdrop of the North Dakota Buttes.



as No. 1 in North Dakota, and, in 1998, was given a 4-1/2 by *Golf Digest* in its listing of Places To Play.

"There was pressure from Day One to keep the course's ranking up as we were rated No. 2 Best New Affordable

Course in the country in 1996 by *Golf Digest*," Baker said.

How does a young leadership continue such high standards?

Continued on page 16



Chad Wilson, from Iowa State University, disassembles an irrigation head during the year-end Intern Olympics at Country Club of the Rockies.

**Finish the season with an Intern Olympics**

By KEVIN ROSS

EDWARDS, Colo. — Many golf course operations have developed strong internship programs through various turf universities throughout the United States and abroad. We host four interns per season at Country Club of the Rockies. The interns become a valuable part of our management team. Our club benefits greatly from their dedication and willingness to learn.

At the end of their internship — usually late-August — we have a final staff barbecue. During this barbecue, we have what is now known as the Intern Olympics. The interns perform three events and other staff members judge or score the events.

The first event, the Irrigation Head Challenge, is to disassemble, then reassemble an irrigation head. Each intern is timed, then judged for proper assembly.

The second event is the Hose Reel Challenge. The interns are required to sit on a utility vehicle at the start, then go to a hose reel, hook it into a quick coupling, roll the hose out 75 feet, fill a 5-gallon pail completely, then roll the hose back up and disconnect the QC. This event is also

Continued on page 18

**K**IRKLAND, Wash. — OB Sports has formed a new consulting division under the direction of agronomist Tom Christy, director of golf course maintenance for the company.

OB Sports, headquartered in Kirkland, owns eight courses and manages facilities in Arizona, California, Nevada, Oregon, Washington and Texas.

As part of the new service,

## OB Sports forms agronomy consulting division

Christy will visit each property on a regular basis and will establish a customized golf course maintenance program. If necessary, he identifies and hires a first-class golf course superintendent to implement the program. Weekly updates and periodic visits to the property ensure that quality turf

conditions and cultural practices are established.

Christy, who joined OB Sports in 1998, previously worked as a superintendent at courses in California, Washington and Oregon. He is the recipient of the Golf Course Superintendents Association Environmental Stewardship Award and was the Or-

egon Golf Course Superintendent Association's Superintendent of the Year in 1995. He is a two-time president of the Northwest Turfgrass Association, a charitable trust that raises money for turfgrass research.

Ironwood Country Club in Palm Desert, Calif. and The Reserve, a 36-hole facility near Port-

land, Oregon, are among the first two clients to sign maintenance contracts. In addition, the courses already on the OB Sports Trail will continue to receive the benefit of Christy's expertise.

Members of golf courses under contract with OB Sports also enjoy the privilege of membership in the OB Sports Trail, which allows preferred starting times and discounted fees at all OB Sports-managed facilities.

## Take-all patch

Continued from page 13

patch, according to Clarke, who shared his findings at the New England Regional Turfgrass Conference and Show here.

Under Clarke's regime, the first step is evaluating the health of the affected soil. "The symptoms occur when the soil has a high pH between 6.5-8.0," he said.

Therefore, in order to control the disease, you must first control the pH of the soil, said Clarke. Over three years, Clarke found best results when using acidifying fertilizers. The optimum pH, he said, is around 6.0.

This approach works even better in combination with a sub-surface application of magnesium sulfate, according to Clarke. In the study, magnesium was applied in April-May at a rate of 1-2 tenths of a pound and then repeated every six weeks. This was found to be extremely effective in reducing disease and strengthening turf.

"Reducing the pH and adding magnesium goes hand in hand with combating take-all patch," said Clarke. "It enhances the plant's natural defenses against the disease and the magnesium is toxic to the fungus."

Compaction must also be controlled since shallow rooting and stressed turf leave the plant wide open to the disease. Therefore, Clarke recommended that the turf be aerified in the spring and fall, but emphasized that it should not be done when symptoms are evident on the turf.

As the aerifying method suggests, timing is key in controlling take-all patch. According to Clarke, the best time to attack the disease is from October to November—before the disease goes into dormancy but after the symptoms have shown themselves—and in the spring before the disease begins to take hold again.

"You can affect potential infections that may develop in the winter or early spring by doing two fall applications and one spring application," said Clarke.

In tandem, these approaches have proven to reduce the impact of take-all patch. Clarke expects that new fungicides using strobilurin chemistry and new turf injection equipment will increase the superintendent's ability to fight take-all patch.

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## Safety saves

Continued from page 13

taking positive steps toward ensuring workplace safety," said Horton. While he has shaped the program specifically for Pebble Beach, which has 1,700 employees, five golf courses, 5,300 acres and two major resorts, Horton maintains that the practices can be used by courses of any size.

Built around what Horton calls the Safety Observation Cycle, "the program helps to change behavior in regards to safety as well as helping your observation and communication skills to take positive steps to ensure safety," he said.

The program has five steps. The first involves deciding to stop and take a look at what an individual worker is doing. The second is stopping to observe the individual and to see if they change their unsafe behavior. The next step is to act, to talk to the individual about what it is they are doing that is a potential safety risk.

The fourth element focuses on positive reinforcement. "When you recognize safe behavior," said Horton, "you are sending a signal that safety is important."

The fifth step involves report cards which are used to consistently discuss workplace safety and what can be done to ensure that workers are acting safely.

Ultimately, Horton has found that the program improves communication between the superintendent and his workers and motivates workers to behave in a safe manner. The program, however, must be followed rigorously if it is to be effective.

"If you walk by someone who is being unsafe and you don't correct them, then the standard has been set that other employees are going to emulate and adhere to," Horton said.

Further, safety must be given the same importance as job efficiency and cost, a lesson Horton learned the hard way.

While hurriedly completing course preparations for a tournament, one of his workers drove a utility vehicle through a roped-off area in order to save time. The cord got caught on the cart and ripped out a stake that went flying into the man's face damaging one eye and his dental work.

Horton admitted that accidents do happen, but said he has found that the STOP program, when properly followed, is a success.

"Clearly, it has shown that injuries and incidents are reduced 50 to 60 percent, and when you multiply that into workers compensation, the cost of injuries and lost work time, we are talking about significant savings," Horton said. "Additionally, safety awareness increases, communications skills improve, as do supervisor and management skills."

## Stahl, Bodnar earn top honors among Penn State grads

STATE COLLEGE, Pa. — Penn State University's 40th Golf Course Turfgrass Management Program class graduated 33 students on March 6 at a ceremony held at the Nittany Lion Inn here.

Dr. John "Trey" Rogers III of Michigan State University delivered the keynote address.

Jonathan R. Stahl was presented the Penn State Alumni Outstanding Student Award

as well as scholarships from the Trans-Mississippi Golf Association and D.M. Boyd Co.

Kim M. Bodnar was selected by fellow classmates to receive the Zimmerman Memorial Award for Outstanding Turfgrass Student, sponsored by Lesco, Inc.

Scholarships and awards were also presented as follows:

Rene Hadley and Christopher E. McPherson also received Trans-Mississippi

Golf Association scholarships. The Penncross Bentgrass Growers Association awarded scholarships to Lucas C. Fowler, Rene Hadley, David J. Kuypers, Christopher E. McPherson, Alan Peterson and Shawn B. Werley.

Joel H. Erickson was given the Duff Shaw Memorial award, while Lucas C. Fowler earned the Myles Adderly Technical Report Writing Award, sponsored by Denis Griffiths and Associates.

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Team <sup>c</sup>	■	●	●	●	●	●	NR	NR
Ronstar <sup>d</sup>	●	■	NR	●	●	NR	NR	NR
Surflan <sup>c</sup>	■	■	■	●	▲	●	■	■

Level of control ● Medium ▲ Medium-High ■ High NR Not registered

<sup>a</sup>Novartis <sup>b</sup>Rohm and Haas Co. <sup>c</sup>Dow AgroSciences <sup>d</sup>Rhône-Poulenc



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## Piller assumes Canadian reins

TORONTO — Dean Piller, superintendent of Cordova Bay Golf Course in Victoria, British Columbia, was elected as president of the Canadian Golf Superintendents Association during the 50th Canadian International Turfgrass Conference and Trade Show here.

Also elected were Vice President Merlin Affleck of Stanhope Golf and Country Club (G&CC) in Stanhope, PEI; Secretary-Treasurer and Alberta Director Jay Leach of Cottonwood G&CC in Dewinton, AB; British Columbia Direc-

tor Jim McGarvey of Seymour G&CC in North Vancouver, BC; and Saskatchewan Director Bill Radke of Candle Lake (SK) Golf Course.

Continuing two-year terms are:

- Ontario Director William Fach of York Downs G&CC in Unionville, ON;
- Quebec Director Tim Harkness of Club de Golf Le Royal Bromont in Bromont, QC; and
- Manitoba Director Ian Martinusen of Breezy Bend Country Club in Headingly, MB.

Jim Nix of Abercrombie Country Club, New Glasgow, NS, was appointed Atlantic director to finish Affleck's term.

## Delhi students cited

DELHI, N.Y. — Two golf/turf management majors at Delhi College have been awarded scholarships by the Duke Polidor Foundation.

Robert McClay of Wawarsing and Ryan Daly of Cato are recipients of \$1,500 scholarships from the Somer-based foundation.

This marks the second consecutive year that Delhi students have

been selected for this honor, according to Dominic Morales, professor and department chair.

The scholarships honor the memory of Duke Polidor, a University of Massachusetts student who became superintendent at Fairview Country Club in New Jersey. An annual tournament is the principal fund-raiser for the foundation's scholarship program and the event is organized by John Currie, a 1967 Delhi graduate.

## Baker home & glad of it

Continued from page 13

"Our seasonal staff of 11 averages 18 years of age," Baker said, "and we work well together. There is less power distance between us and they feel comfortable to come to me with suggestions."

Baker grew up about a half mile from the property where course now sits — "land that our family used to rent for pasturing cows," she said.

She has many memories of growing up here: Getting bucked off her horse by hole 10, having picnics under the big trees between holes 5 and 6. Her favorite hole? No. 3, which used to be the local garbage dump but which has been completely cleaned up.

When she graduated from high school in 1994, construction started on the course and she worked for The Links as a summer job in 1995 and 1996.

*'Even with all the pressures, I wouldn't trade this job for anything.'*

Two months before graduating with honors from North Dakota State University in 1998, with a major in horticulture and a minor in business administration, Baker accepted the assistant superintendent position at The Links. But three weeks later the superintendent resigned and course officials offered her the job.

"I gladly accepted it," she said. But then she had to make a quick phone to hire Anderson as her assistant and help out until she graduated.

Baker and her crew installed a fertigation system that has improved the course's turf quality 500 percent, she said, by using two applications of a 28-0-0.

"It was like the Jolly Green Giant came and painted everything green," she said. "We also put out two applications of a 10-34-0 to get our phosphorus levels up."

"Even with all the pressures, I wouldn't trade this job for anything," Baker said. "I love it here and it's beautiful."

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### 1 My primary title is: (check one only)

- A. Golf Course Superintendent
- F. Course Owner/CEO
- B. Green Chairman/Dir. Grounds
- C. Director of Golf/Head Pro
- D. Club President
- E. General Manager
- K. Assistant Superintendent
- G. Builder/Developer
- H. Architect/Engineer
- I. Research Professional
- J. Others allied to field (please specify) \_\_\_\_\_

### 2 My primary business is: (check one only)

- 01. Public Golf Course
- 02. Private Golf Course
- 11. Semi-Private Golf Course
- 03. Municipal/County/State/Military Golf Course
- 04. Hotel/Resort Course
- 10. Other Golf Course: (please specify) \_\_\_\_\_

- 05. Golf Course Architect
- 06. Golf Course Developer
- 07. Golf Course Builder
- 09. Supplier/Sales Rep
- 08. Other \_\_\_\_\_

(please specify)

### 3 Number of holes:

- A. 9 holes
- B. 18 holes
- C. 27 holes
- D. 36 holes
- E. Other (please specify) \_\_\_\_\_

### 4 Total annual maintenance budget:

- 1. Under \$50,000
- 2. \$50,000-99,999
- 3. \$100,000-249,999
- 4. \$250,000-499,999
- 5. \$500,000-749,999
- 6. \$750,000-1,000,000
- 7. Over \$1,000,000

### 5 Annual capital expenditure:

- A. Under \$100,000
- B. \$100,000 - 249,999
- C. \$250,000 - 500,000
- D. Over \$500,000

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# Rake in? Rake out? Here's the solution

By TERRY BUCHEN

VASTERAS, Sweden — Where to place bunker rakes has long been a matter of debate in golf course maintenance circles.

From the course maintenance viewpoint, course managers prefer rakes be placed inside the bunkers so the person mowing around the bunker will not have to stop and move the rakes out of the way.

But, the United States Golf Association (USGA) and The Royal & Ancient Golf Club of St. Andrews (R&A), the ruling bodies for the Rules of Golf worldwide, recommend bunker rakes be placed outside the bunkers and as far away from them as possible.

The rationale is that if a ball touches a rake inside the bunker then a violation of the Rules of Golf could occur if the ball moves when the rake is placed out of the way. That is why the governing bodies recommend rakes be placed outside the bunker to begin with.

The USGA briefly sided with the superintendent, recommending in 1979 that rakes be placed inside bunkers. But the association reversed its recommendation a year later. The USGA and R&A have agreed on the outside-the-bunker placement ever since.

Bo Borg, course manager at Surahammars Golfklubb here, has been using an alternative rake that helps alleviate the problem.

"We decided to use our unique bunker rake handle design to



The unique bunker rake design helps solve the dilemma of whether to place the rake inside or outside ON THE GREEN

compromise on the placement of the rakes by placing them inside the bunker," Borg said. "We did this by putting a 90-degree angle near the end of the rake handle, which allows the handle to be raised above the sand surface. Thus a ball has little chance of touching the rake whatsoever.

"This design also makes it much easier for golfers since they don't have to bend down quite as far to pick up the rake. The rake handle is approximately 1.8 meters long, with the last 0.3 meters bent 90 degrees. The rake head is 0.45 meters wide and the entire rake made of aluminum."

The 90-degree rake was originally designed by Lars-Erik Jacobsson of the Nar Golfklubb.

# GCSAA extends funding

LAWRENCE, Kan. — Building off momentum gained from the initial stages of the Golf Course Superintendents Association of America (GCSAA) Foundation's "Investing in the Beauty of Golf" endowment campaign, its board of trustees has voted to extend the goal from \$3.5 million to \$5 million.

In addition, Herb Kohler, president and chairman of the board for Kohler Co., course architect Tom Fazio and GCSAA Secretary/Treasurer Tommy Witt have been selected to The Foundation's board of trustees. They replace retiring board members Jaime Ortiz-Patino, president of Valderrama Golf Club, and GCSAA past presidents Paul McGinnis and George Renault.

"The action taken by the trustees indicates the importance of this campaign, not only to the golf course maintenance industry, but to the game of golf," said board Chairman Ray Anderson, former U.S. Golf Association Executive Committee member. "Educational opportunities and research projects funded by The Foundation will have a lasting effect on all in the golf industry. This endeavor needs to be funded to an appropriate level."

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## Jim Connolly forms agronomy consultancy

By MARK LESLIE

SPOKANE, Wash. — Jim Connolly, who over the last 20 years has provided agronomic advice to more than 400 golf courses in the United States and six foreign countries, has opened his own consulting firm.

Director of agronomy and technical services with JacklinGolf

and Jacklin Seed the last four years and an agronomist with the U.S. Golf Association the six years before that, Connolly said: "I like to feel that I'm offering assistance to owners, architects, superintendents, whoever my clients are. I get a lot of gratification in helping people, and I wanted to be able to dedicate myself full-

time to consulting."

At JacklinGolf, he was only able to consult part-time.

His personal goal in forming James Connolly Consulting, he said, "was to be self-employed and enjoy that freedom, along with the challenges, commitment and risks."

Connolly called his relation-

ship with JacklinGolf "close," but I added: "I just won't be selling any products. I went to work for Jacklin because they are leaders in the industry. I don't believe in recommending a product as much as I recommend people. I will not hesitate to recommend the people at Jacklin. The same would be true with



Jim Connolly

any company I have worked with and respect and admire.

"The most important thing as a consultant is to be able to hook up your client with professionals in the industry — whether they are independent reps or the

USGA or whoever."

Connolly will be consulting for clients involved in all phases of golf course development, with a specific focus on agronomic and maintenance issues. He believes his international experience will be a significant benefit for his clients overseas, including his first client — a Chinese facility.

"Agronomic issues run like a thread through every part of the golf course development process," he said. "Whether the golf

*'Agronomic issues run like a thread through every part of the golf course development process.'*

— Jim Connolly

course is in planning, or 100 years old, sound agronomic advice plays a very important role in the golf course's long-term success."

Jacklin Seed President Doyle Jacklin has asked Connolly to remain the company's liaison to The First Tee Program. "I have a deep passion for that program and Jacklin Seed realized that," Connolly said. "I appreciate the opportunity to remain involved with The First Tee and represent Jacklin with it."

Connolly can be reached at 10315 E. Holman Rd., Spokane, Wash. 99206; telephone 509-921-5421; fax 509-892-3840; e-mail [jeconnolly@msn.com](mailto:jeconnolly@msn.com)

## Intern Olympics

Continued from page 13

timed and scored for hose-rolling neatness and the proper water level in the bucket.

The final event is the Greensmower Trailer Backup Challenge. Using a utility vehicle, interns are required to back up a greensmower trailer through a series of cones into a parking place. This is a timed event, with deductions made for any cones hit or run over.

The winner of each event is awarded a sleeve of golf balls from the pro shop as their gold medal. All times are recorded, so in following seasons records may be broken. The Intern Olympics proves to be much fun and a great addition to the year-end staff barbecue. I encourage anyone who has an internship program to invent their own Olympics. It can be amusing and entertaining.

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## Clean and efficient use of wall space

By TERRY BUCHEN

NAPLES, Fla. — The command center of the golf course and grounds maintenance operation at Collier's Reserve Country Club here is called the Natural Resource Management Center (NRMC) "to reflect our total outlook and responsibility towards the environment," said golf course manager Tim Hiers.

"We pride ourselves in keeping the cleanest and most organized NRMC that we can as a team-spirited operation," Hiers said.

One example is along the exterior wall immediately outside the complex housing the office, reception area, employee lunchroom, bathroom, locker room and soil test room. This building is located adjacent to the equipment storage area and outside it sit a large stainless steel basin sink where three to four employees can wash their hands at one time by using a foot-activated water faucet.

"This really helps keep our office/employee areas much cleaner," Hiers said.

An electric 110-volt hand drier with a built-in timer is hygienically cleaner than using paper towels. And there is a sun-screen dispenser, as well as liquid soap dispenser, for employee protection, he said.

"We like to recycle at every opportunity," Hiers said, "so we installed two aluminum can crushers and containers and a container for recycling plastic bottles and the like, along with a sturdy plastic trash container."

The complex's wall-mounted handicap-accessible stainless steel drinking fountain can handle any needs of employees or guests.

To liven up Collier's Reserve's employee safety campaign, large framed safety posters are scattered throughout the NRMC, using Herman, the comic strip character, as a central theme.

### Suncoast scores fundraising winner

SARASOTA, Fla. — The Suncoast Chapter of the Florida Golf Course Superintendents Association's annual fund-raising event at Misty Creek Country Club here raised \$2,500 for the FGCSA Turf Research Fund.

The four man scramble format teams a golf course superintendent, a club golf pro, a club member or management person and a turf supplier/vendor.

Besides the \$2,500 for research, other proceeds will be donated to local junior golf programs.

The Florida GCSA is an association made up of 11 local chapters and 930 members.

GOLF COURSE NEWS

On the floor Hiers used safety yellow-colored striping so vehicles are parked inside the yellow lines and employees can walk safely.

A vertical air compressor bolted to the concrete floor on



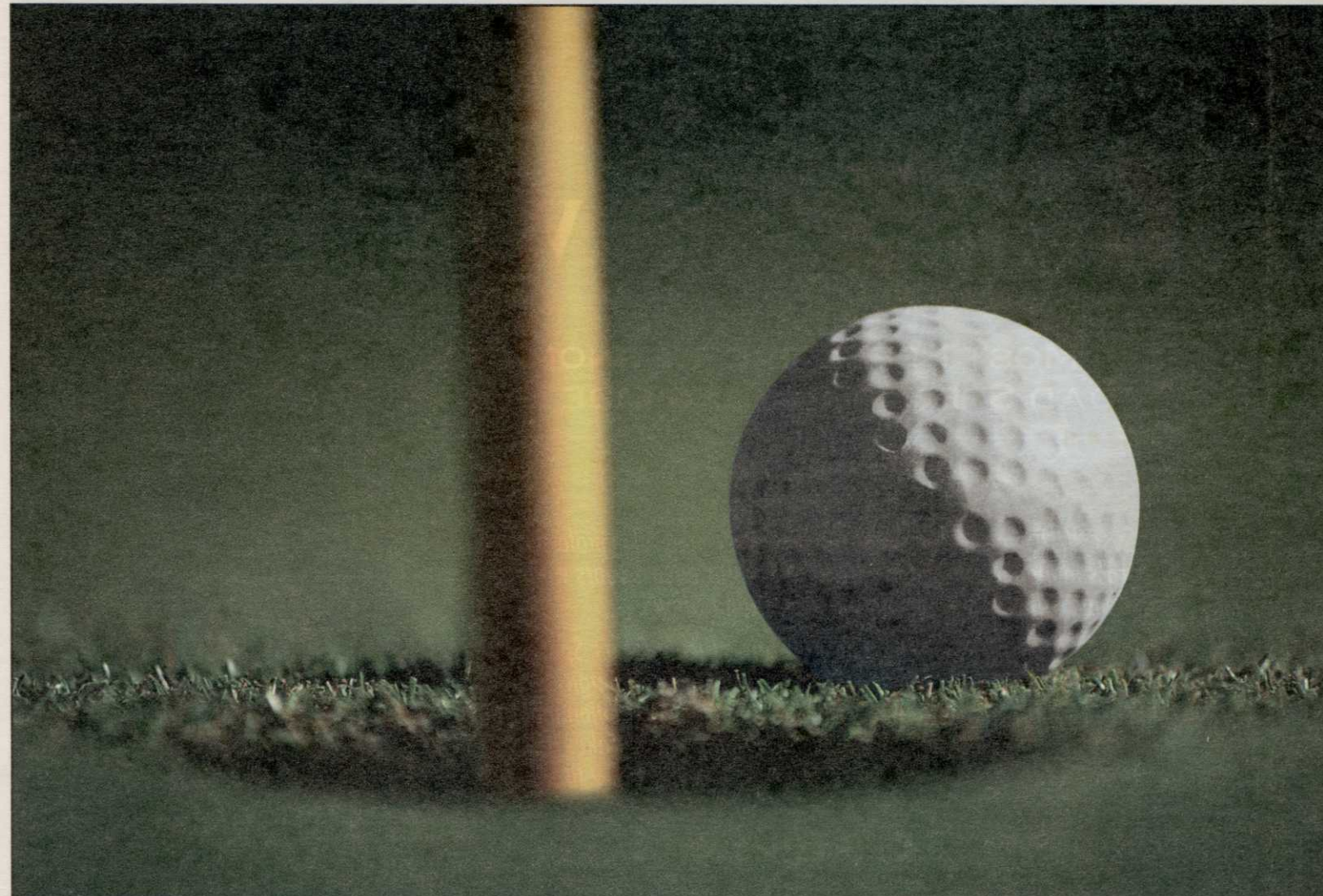
SHOP TALK

the far right side, has many OSHA safety covers. They cover the power drive belts that operate the air compressor motor and pump. This soon will be totally enclosed with sound proofing insulation and an appropriate structure, with doorway, Hiers added.



Everything is clean and organized in the natural resource management center.

Terry Buchen photo



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CIRCLE #118

# Name that job title: Superintendent? Greenkeeper? Course manager?

By TERRY BUCHEN

WILLIAMSBURG, Va. — It seems inevitable in the not-too-distant future that the superintendent's job title will permanently change and the subsequent re-naming of our national and local professional organizations will change as

well. That is, if the past Golf Course Superintendents Association of America (GCSAA) history and natural evolution of time are any indication.

The National Association of Greenkeepers of America (NAGA) was founded in 1926. It changed its name to the

Greenkeeping Superintendents Association (GSA) in 1938. In 1948, the association name was changed to the National Greenkeeping Superintendents Association (NGSA). And in 1951 the current Golf Course Superintendents Association of America (GCSAA) name was penned.

Our professional trade magazine has also changed names over the years, reflecting mostly on our desired job title and status in the golf community. It started as the *National Greenkeeper* in 1927, changing to *The Greenkeepers' Bulletin* in July 1933, *The Greenkeepers' Reporter* in August 1933, *The*

*Golf Course Reporter* in 1951, *Golf Course Superintendent* in 1966 and the current *Golf Course Management* in 1979.



The GCSAA and the local chapters have done a good job promoting the Golf Course Superintendents job title over the years by trying to get away from the "Greenkeeper" title usage as much as the public will participate. The media, in many cases, tries to use the superintendent title even though the inevitable Greenkeeper title still is used and most likely will never go away in the public's eye.

The golf course superintendent title is still being used extensively, both at public-access and private clubs. But, beginning in the 1980s, the titles by which superintendents desire to be addressed have steadily upgraded. Most notably among them are golf course manager and director of golf course maintenance. The golf course manager title reflects nicely with the current name of our trade magazine, while the director of golf course maintenance title reflects the current administrative leaning to the position. Our competitive nature as golf professionals is reflected by the director of golf title. We feel it is only fitting that we are treated as at least equals with a "director" title.

Job titles are used on a case-by-case basis at each golf course in the United States and Canada, depending on the internal chain of command and desired organizational chart.

So, will whatever title is chosen eventually be used in the associations' names? Our associations' new acronym should be as short, distinctive and catchy as possible. A good example is the PGA. Will it be changed to the Golf Course Managers Association of America (GCMAA); the Directors of Golf Course Maintenance Association of America (DGCMAA); National Golf Course Managers Association of America (NGCMAA); National Golf Course Managers of America (NGCMA); National Golf Course Managers (NGCM); Association of Golf Course Managers (AGCM); American Golf Course Managers (AGCM); National Association of Golf Course Managers (NAGCM); or American Directors of Golf Course Maintenance (ADGCM)?

Continued on next page

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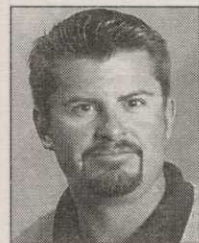
ON THE MOVE

## Davis moves to WestWorld track

SCOTTSDALE, Ariz. — **Jeff Davis** has been named superintendent for The Sanctuary Golf Course at WestWorld, SunCor's new 18-hole, daily-fee club here.

Davis has more than 11 years experience in the golf industry, overseeing course construction, maintenance and management at courses such as SunRidge Canyon Golf Club in Fountain Hills; The Loxahatchee Club in Jupiter, Fla.; and the Tournament Players Club at Avenel in Potomac, Md. He also has experience working at Briggs Golf Course Construction in Jupiter.

Davis is a member of the Golf Course Superintendents Association of America and the Cactus and Pine Golf Course Superintendents Association. He is a graduate of The University of Maryland with a bachelor of science degree in turf and urban agronomy.



Jeff Davis

representative with The Scotts Co. He is a graduate of the University of Wyoming, receiving a bachelor of science degree in entomology and crop services.

STRATFORD, Conn. — Arnold Palmer Golf Management has rounded out its management team at Oronoque Country Club here with the ap-

pointment of **Ward H. Weischet** as the course's superintendent.

Ward graduated from Central Connecticut State University with a bachelor's degree in business management. He has been employed for the past 14 years at Harbour Ridge Golf Club.

SCOTTSDALE, Ariz. — Western Golf Properties, Inc. has selected **William Herring** as course superintendent for Lost Key Golf

Club in Perdido Key, Fla., **Roe Sherbert** as superintendent at Heritage Eagle Bend Golf and Country Club (G&CC) in Aurora, Colo., **Stephen Cohoon** as superintendent at Heritage Hunt G&CC in Gainesville, Va., and **Thomas Wolff** at TPC Snoqualmie (Wash.) Ridge.

Herringhas worked at Cambrian Ridge Golf Course in Greenville, Ala., and as assistant superintendent at Lost Key.

Sherbert was a regional superintendent for American Golf Corp. and superintendent at Arrowhead Golf Club in Littleton, Colo.

Cohoon, a member of the GCSAA Government Relations Committee since 1997, has been superintendent at a variety of clubs, including Southview Golf Course in Waldorf, Md.

The past 11 years, Wolff has been superintendent at Sahalee Country Club in Redmond, Wash.

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## Title change ahead

Continued from previous page

Maybe we will make a complete circle and be called "greenkeepers" once again, as we are still sometimes called by the golfing public and media today. And perhaps name our association the National Greenkeepers Association (NGA), which is a simple, less-cumbersome name with a simple acronym. Or how about International Greenkeepers Association (IGA)? Outside of North America, "greenkeeper" is the accepted title worldwide, though some other countries like the United Kingdom and Sweden are following America's lead by trying to upgrade their titles to course manager.

The debate by GCSAA and local chapters will be interesting — another exciting milestone in golf course superintendency in North America.

## Versatility key to new utility vehicles

By ANDREW OVERBECK

Superintendents demand a lot out of their utility vehicles. They must be versatile, able to tackle rough terrain and wide ranging jobs, yet they must also offer a wide array of operator comforts. And since they live on a golf course, they must be relatively quiet and pleasing to the eye.

It is a small wonder how utility vehicle manufacturers keep up with the growing list of operator demands, but it does explain the myriad of product innovations and new vehicles on the market today.

"These have to be go anywhere, do anything vehicles," said Peter Whurr, vice president of product development for Textron Turf Care and Specialty Products. With that in mind, the bulk of product innovations revolve around beefed up suspensions and drive trains.

"The advantages of a utility vehicles is that they have many of the features of a pick-up truck with a lot less of the

cost," said Ron Skenes, manager of communications for E-Z-GO. "The Workhorse LX utility vehicle has the big tires and suspension that allows it handle a variety of applications on the golf course."

While utility vehicles need to be capable of going off-road, they can't have a harsh truck-like ride. Toro concentrated on stability and handling when designing the new Workman 1100 that is due out in February 2000.

"Stability and ride comfort is important," said Toro's marketing manager Neil Bornstien. "Our active in-frame suspension allows for a comfortable ride and helps to provide excellent traction

Continued on page 41



The new breed of utility vehicle: Club Car's XRT 272 (above); E-Z-GO's Workhorse LX 1200 (bottom left); and John Deere's E-Gator (bottom right). These new machines are versatile, tackle rough terrain and offer a wide array of operator comforts.



## E-Z-GO Textron, Cushman merge operations

AUGUSTA, Ga. — E-Z-GO Textron and Cushman have announced a newly formed merger. E-Z-GO Textron will manage all sales and marketing operations for the two companies out of its August, Ga., headquarters although Cushman's manufacturing operations will remain in Lincoln, Neb.

In 1998, Cushman was added to Textron as a result of a merger between E-Z-GO's parent company, Textron Inc. and Cushman owner, Ransomes.

"Cushman's high visibility and strong brand name within the industrial and commercial markets make it an excellent partner. The merger between the two companies gives us an unparalleled line of industrial and commercial vehicles," said L.T. Walden, E-Z-GO's president.

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BRIEFS



**KEMPER TO REVAMP NAVAL BASE**

**NORTHBROOK, Ill.**—The Village of Glenview selected Kemper Sports Management to build and operate a daily-fee facility at the former Glenview Naval Air Station, a 1,121-acre former military base being converted to a mixed-use development. Glenview trustees approved the sale of 180 acres of land at the air base to Kemper Sports for use in building a course and clubhouse that will include a golf museum, restaurant and banquet facilities. Kemper Sports' vision for the planned \$20 million project is to create a world-class course and practice facility. As part of its bid, Kemper formed an alliance with the Illinois Section of the PGA (IPGA) enabling the IPGA to move its headquarters to the Glenview site. Upon opening, the new facility will also house the Illinois Golf Hall of Fame, an interactive museum celebrating the history of golf in Illinois and those who have made contributions to the game. Plans are to start construction this fall and open the course by spring 2001.

**MOUNTAIN COURSE ADDED IN WIS.**

**MERRIMAC, Wis.**—Offering "some of the best mountain golf in the Midwest" on 800 acres of glacier-formed bluff in Wisconsin's Baraboo Hills, Devil's Head Resort & Convention Center at Merrimac enters the 1999 season starting work on nine new holes to add to its 18-hole championship course. Some 45 minutes north of Madison, Devil's Head is located between Portage and the Wisconsin Dells.

**IRWIN DESIGNS NEVADA COURSE**

**SPARKS, Nev.**—Red Hawk Golf Club is adding an 18-hole course and 18-hole putting course designed by Hale Irwin. Winding along the cottonwoods and marshes at Wingfield Springs Village Center, the putting course is scheduled to open in the fall and feature 18 challenging bentgrass holes put together by the three-time U.S. Open champion. The Hills Course will wind through the Pah Rah Range, complementing the 18-hole Springs Course designed by Robert Trent Jones Jr.

**VERMONT'S OKEMO GC READIES FOR SPRING 2000 OPENING**

**OKEMA VALLEY, Vt.**—Okemo Valley Golf Club, an 18-hole facility here, is scheduled to make its debut in the spring of 2000. The course will be home to the Okemo Valley Golf Academy, an 18-acre golf learning center. Okemo is also planning an expansion, called Jackson Gore, which will include a nine-hole executive golf course.

Doak's Apache Stronghold 'new-fangled' for desert

By MARK LESLIE

**GLOBE, Ariz.**—The San Carlos Apache Nation had The Apache Golf Casino, a couple thousand square miles of Apache land and plenty of Apache labor. What were they missing? A golf course.

But that will be remedied in May or June when the Tom Doak-designed 18-hole Apache Stronghold opens to public play here.

It will be a new-fangled type of course for the desert: wide (200-foot) landing areas, a lot (100 acres) of turfgrass, plentiful water supply, immense length (7,500 yards from the back tees), and cooler weather than most desert tracks (leading to a choice of dwarf bluegrass fairways and Dominant bentgrass greens because Bermudagrass would die at this 3,200-foot altitude in the mountains above Phoenix).

"The Apache Nation wanted to build a golf course that was good enough to make



The 2nd hole at Tom Doak-designed Apache Stronghold, built by the San Carlos Apache Nation, sits on the edge of the mountains above Phoenix.

people want to stay," said Doak who, with Apache Stronghold, has his first design west of the Mississippi River. "We think we've done that."

Given a couple thousand acres to choose from in building his course, Doak said he found "a terrific piece of land." So

Continued on page 31



Native grasses play a key part, visually, around Chisholm Trail Golf Course, including this par-3 3rd hole located in the Sand Hills of Kansas.

A DREAM REALIZED

Affordable golf in Kansas' sand hills

By MARK LESLIE

**ABILENE, Kan.**—The sand hills of Nebraska produced one of the best golf courses of the last couple of decades in Sand Hills Golf Course. The sand hills of Kansas produced Perry Maxwell's top 25-rated Prairie Dunes in nearby Hutchinson in 1937. Dr. Jon Thayer hopes the same magic has been woven through the sand hills of Abilene—specifically on his Chisholm Trail Golf Course, which opened for public play here April 1 to far less fanfare than his famous neighbors.

Chisholm Trail was "laid gently on the land," Thayer said, "a rolling piece of

Continued on page 30

Architects honor Palmer, elect president and new members

An 'icon of golf,' life given Ross Award

By MARK LESLIE

**CHARLESTON, S.C.**—Hailed as an icon in both golf and life who receives "grand and profound respect from all ages," Arnold Palmer received the Donald Ross Award from the American Society of Golf Course Architects (ASGCA) at the group's 53rd annual meeting at Country Club of Charleston here March 22.

Citing Ross as a man who designed hundreds of golf courses which are "still the best in the world," Palmer said it was a pleasure and privilege to be there and accept the award. The man whose Ed Seay-led design company has laid out scores of courses over the last 35 years, made an appeal for golf course architects to maintain the traditions and integrity of the game of golf.

Palmer pointed to Jack Nicklaus, another designer/PGA Tour great who was in the room as an ASGCA mem-

Continued on page 29



Tim Liddy at work on the draftboard.

Eight elected to ASGCA

By MARK LESLIE

**CHARLESTON, S.C.**—There are two keen ways to make it to the big time in golf course architecture: learn the craft from your father, or understudy to Pete and Alice Dye.

That is what Rick Phelps (son of Dick) and Tim Liddy (understudy to the Dyes)

Continued on page 26

LaFoy named president of Architects Society

**CHARLESTON, S.C.**—John LaFoy of Greenville, S.C., who has built a national reputation with his new course designs and remodeling projects, was elected president of the American Society of Golf Course Architects at the group's recent annual meeting here.

"This is a great honor for me," LaFoy said. "I am proud to be president of the society, whose members are the most experienced, creative and professional practitioners of golf course architecture in the world."

As head of his own golf course design firm and a former partner with prominent golf course architect George Cobb, LaFoy has designed, renovated or master planned more than 100 courses.

Among his designs and remodels are: Linville Ridge Country Club in Linville, N.C., Neuse Golf Club in Raleigh, N.C., Country Club of Charles-

Continued on page 30

## New community built around old Dye layout

By MARK LESLIE

RICHMOND HILL, Ga. — What is being hailed as an “unplayed Pete Dye course” is the cornerstone of a new luxury second-home community here.

Called Ford Plantation, the 1,800-acre property is the former winter residence of Henry Ford and a one-time rice plantation dating to the 1750s. The 18-hole course, whose name has been changed from Sterling Bluff to Ogeechee Golf Club, was designed by Dye in 1983 on commission by Saudi Arabian physician Ghaith Pharaon.

Pharaon, who had just bought the plantation, anticipated building a golf community, but that never happened.

“Basically, it [course] was a PGA club-caliber course with a member of one,” said Chip Dolan, one of the plantation’s managing partners.

Dye fashioned the track for \$11 million and only a handful of people ever played it, mostly employees of Pharaon’s resort man-

agement company, Inter Reditec.

The back nine of the course was built in the middle of antebellum rice fields. Ford had turned those into lettuce fields in the 1930s, but Dye added 1.2 million cubic yards of earth and transformed them into “a virtual island of Scottish moors,” the owners say.

Dye said of the course in April, “It is a very good golf course” and one of his finest Southern designs.

When the current ownership took over Ford Plantation, Dye began about six months of work on the course, shaving the tops off and recontouring all the greens before regrassing them.

A number of trees that had grown up on the back nine were cut down and cart paths were removed to fit the Scottish look.

But Dye left the fairways and all but two of the bunkers as they stood.

The par-72, 7,100-yard course lays over 261 acres, flowing around an additional 248 acres of freshwater lakes. Dye originally dug five lakes on the front nine, in-

cluding 55-acre Lake Sterling, and 14 of the 18 holes are on water.

Saying the course puts a premium on approach shots, Dolan said the practice facility recreates some of those shots to target greens.

There will be fewer than 60 properties on the golf course, and none on the back nine, “which would ruin the Scottish look,” Dolan said.

## Phelps awarded Colo. project

DELTA, Colo. — Richard M. Phelps, Ltd. has been awarded the contract to design an 18-hole golf course for the city of Delta.

Sitting 40 miles southeast of Grand Junction, which is on the western slope of the Rocky Mountains, the site is approximately 240 acres and consists of two distinct types of topography. The southwest portion is relatively flat, with scattered native vegetation but still maintaining views of the surrounding San Juan Mountain range. Bisecting the site is a 60-foot ledge that leads into the northeast portion of the property, which has “fascinating and constantly moving terrain,” said Rick Phelps. “The northeast quadrant has very unique topography and vegetation. We are very excited about this project to prove once again that it is possible to design great golf courses with relatively few dollars. I like to call it ‘responsible architecture.’”

Phelps plans to take advantage of the large acreage dedicated to the course to design wide, rolling, playable fairways creating multiple options on several of the golf holes. Requiring the golfers to think and properly position themselves to attack the large bentgrass greens, is a high priority. The course will also feature a system of ponds connected by rocky streams, created wetlands, strategic bunkering and other land forms. The practice area will include a large range, putting green and short-game pitching and chipping green.



*We never said you wouldn't see unattractive spots on your course. They just won't be dollar spots.*

By PETER BLAIS

PHILADELPHIA—Construction has begun on the Glen Mills Schools golf course, the 18-hole Bobby Weed-designed layout that will serve as both a recreational and job-training facility for the court-referred 15- to 18-year-old men attending the 170-year-old school.

The directors and staff at the 1,000-student school decided to

## Students play major role at Philly boys school course

begin seeking permits for the golf course roughly two years ago and obtained their final local permits in late February. Because so few courses have been built in recent years in the Philadelphia area, Glen Mills Schools Managing Director Harrison Ipock believes this is the first new Delaware County course to

have to undergo the permitting process.

School officials signed a contract with general contractor Pennink Arrimour Golf Inc. of Brynathyn and began clearing the 236-acre site in mid-March. Plans are to grass the course this fall and have it ready for play by late next summer, according

to Ipock.

The first four holes will run along a ridge reputed to be the highest point in Delaware County. The layout then dives into the woods; running along a creek and a small lake that comes into play on the 12th and 16th holes. The lake will also serve as the course's irrigation reservoir.

Located on the Glen Mills campus in a fast-growing area 20 miles from downtown Philadelphia, the proposed course has been very well received by neighbors, in part, "because no housing is planned," Ipock said.

Profits generated at the daily-fee course will go to the Glen Mills Schools Student Scholarship Fund, which finances career objectives of students needing tuition assistance after they leave the school.

Glen Mills has hired John Vogts as superintendent. Vogts and other instructors will teach students about many aspects of the golf course industry, including service delivery, machine operation, machine repair and maintenance, irrigation, fertilizer and chemical application. Students will also help operate the pro and sandwich shops.

"His personality was one of the things that helped us decide to hire John," Ipock said. "He has gotten a few students involved in the construction process already. One of the shop classes is also planning to make tee markers."

Vogts worked on a golf course as a teenager and has held assistant posts at several Philadelphia-area courses including Rolling Green and Merion.

"I understand what it's like to be a teenager working on a golf course," he said. "Most people don't understand how much teaching superintendents do. It's a major part of the job and seems very natural here."

Vogts spends a couple mornings each week with 30 students in a classroom. Wetlands and soil conservation have been among the topics the students have discussed thus far. Classroom time has been followed by field trips to the course site.

A new dormitory (Garfield Hall) will be constructed and its 70-plus students programmatically connected to the operation of the golf course.

As for the course, Vogts said: "It's going to be fabulous. We'll have 40 acres of bentgrass fairways. Bobby Weed has been here every week and is paying close attention to detail."



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CIRCLE #102

### MACCURRACH STARTS CONSTRUCTION OF PGA FACILITY

JACKSONVILLE, Fla. — MacCurrach Golf Construction has begun construction on the PGA of America's 18-hole course at the PGA Village in Port St. Lucie. It will be a Pete Dye design called The Reserve and is slated to open in 2000. In addition to building the course, MacCurrach Golf will construct a 30-acre learning and development facility which will be under the direction of Rick Martino. It is the first such teaching facility to be developed by the PGA of America.

## New members

Continued from page 23

did en route to gaining membership in the American Society of Golf Course Architects (ASGCA). Holding their annual membership vote, ASGCA voted in Phelps; Liddy; Tim Freeland, with Gary Player Design Group; Bill Kerwin, with Hurdzan Fry; George Sargent, who works with Phil Wogan; Stan Gentry with

Hale Irwin Design, Mark Hollinger with Michael J. Poellot; and Art Shaupeter, who once worked with Keith Foster. The election swells the ranks of ASGCA members to 140.

"It's a dream come true. It's been something I've wanted to be a part of ever since I started working with Dad 10 years ago," said Phelps, whose father Dick was ASGCA president in 1980-81.

Personally, Phelps said, the "what it takes to get into the society adds instant credibility to you. As far as the firm goes, to have two ASGCA members in the same company is a benefit as well. We can start marketing differently and approaching clients who may not have wanted a firm with only one ASGCA member.

"It gives us more flexibility in how we work on projects, too. A

good percentage of our clients have wanted Dad to be heavily involved because he was the one who carries the credentials and experience. Once we got to know them and worked with them, they realized I had experience and know-how. But now they can look at my credentials as well and know I've passed muster."

The Phelpses now hope to expand their work area.

"We definitely want to expand to new territories," Rick Phelps said. "That's one of the things I like best about the job: traveling to new places in the country, seeing new places and new people, experiencing new golf sites, different vegetation. That makes it exciting."



Saying that until the last five to 10 years it was perceived as unethical for architects to advertise and promote themselves, Phelps said: "But that has become more the norm than the exception. We will do it very cautiously and carefully so that we maintain a high ethical standard. But it's obvious you have to do it if you're going to compete with the big boys."

"I want to be able to compete on the same platform as the Fazios, Dyes and Joneses, and work on some of those exclusive projects that they get all the time."

Liddy, who formed Tim Liddy Golf Course design in 1993 and has worked with the Dyes on and off for 12 years, said: "Pete and Alice changed my life, as they have a lot of people's. To me, they're icons of the profession of golf course architecture and of golf. I learned everything about design from them."

Liddy is one of a long line of architects whose careers were jump-started working with the Dyes. Among them: Bobby Weed, Tom Doak, Lee Schmidt, Bill Coore, William Newcomb and David Postlethwait.

Calling the Dyes "an unbelievable team," Liddy said: "The first thing you learn is, you design from many levels — the routing, the laying out of a golf hole and the details of building bunkers, tees and greens. Pete is a master at all three of those levels."

"I go to Alice a lot of times for both her artistic sense and logical sense. Artistically, she has helped me with spatial organization and with the logic of how people play golf. She has a great artistic eye."

A landscape architect who was working with a large engineering firm in Indianapolis when he first worked with the Dyes, Liddy's works include Rock Hollow Golf Club in Peru, Ind., named among Golf Digest's Top Ten 1995 Best New Public Courses; and Coffin Golf Course, winner of a 1995 Merit Award for Excellence in Design in Indianapolis.

Liddy was the Dyes' project architect for The Fort Golf Course in Indianapolis, which in 1998 was named 3rd among Golf Digest's Best New Affordable Public Golf Courses and was among Golf Magazine's The Top Ten You Can Play.

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## ASGCA issues

Continued from page 1

Executive Director/CEO Jim Awtrey, Golf Course Superintendents Association of America (GCSAA) Chief Operating Officer Joe O'Brien, Golf Course Builders Association of America (GCBA) President Bill Kubly, National Golf Foundation (NGF) Vice President of Membership Services Barry Frank, and National Golf Course Owners Association (NGCOA) Executive Director Mike Hughes.

"I submit that this [what happened to tennis] might happen to our sport if we don't do what we're supposed to do in preserving the game," said Taylor, who was stressing the negative impact that could come from drivers with spring-like qualities that would add 25 yards in distance and golf balls that would travel 15 yards further than today's balls.

"Just think," he said, "a total of 40 yards from these two phenomenon if they are brought to the marketplace. That would be a tragedy for this game.

"We now have a golf course that is 7,777 yards long. We will soon be talking about 8,000-yard golf courses."

Identifying slow speed and the high cost of playing as two factors hurting the game, Taylor added that 8,000-yard courses would entail more money to buy the land and more to build and maintain the finished product as well as more time and higher greens fees to play.

Allow this, he said, "and we have further injured the game that means so much to us."

The USGA has "drawn a line in the sand" on clubs, Taylor said, "and one is soon to be drawn on balls."

"There is an understanding on the part of the USGA that we have a responsibility to act," he explained. "And in spite of all the tumult and the shouting from other constituents in the game about (a) we don't know what we are doing, and (b) we aren't the organization that ought to be doing it anyway, I submit to you that it is our responsibility. And I also make a commitment that is very apparent to all of us who are involved in the organization: that we will maintain the great traditions and the integrity of this game."

The PGA of America's Awtrey expressed concern that "golf is not affordable for the masses. When I see the number of infrequent players we have in the game, subjectively I believe that is because they can't afford to play more golf."

Many people, and especially families, who play five or six rounds of golf a year would play more if it were more affordable, he said.

He suggested creating partnerships with municipalities and

building walkable golf courses with greens fees less than \$20.

"That would require pushup greens and some other things — things that we know how to do, things that we used to do," Awtrey said.

Some architects, he added, have indicated a willingness to work on this type of project — if the land can be obtained and if people agree to maintain [sim-

ply]. This would show, Awtrey said, that people "can build golf courses, make them affordable and still turn enough profit.

"I hope that we are able to do that at some point, because I think, if we continue to focus on greens fees from \$75 to \$150, we will certainly continue to drive the image of the game as very expensive."

Meanwhile, the PGA of America is working at retaining golfers. It

will build a \$2-million learning center on 35 acres at its PGA Golf Club The Reserve in Port St. Lucie, Fla., not expecting any return on that investment.

"It's an intimidating game and we want to make it less intimidating," Awtrey said. "One of our goals for developing the new players who we bring into this center is an 80-percent retention rate after the first year. We want

them to continue the game because it's fun — not because they have to shoot a score but because they enjoy the game and can play it."

To that end, the learning center was built to help people learn and improve all the shots of their game. PGA of America members will man the center as instructors all the time. The facility,

Continued on next page

## All in a Day's Work.

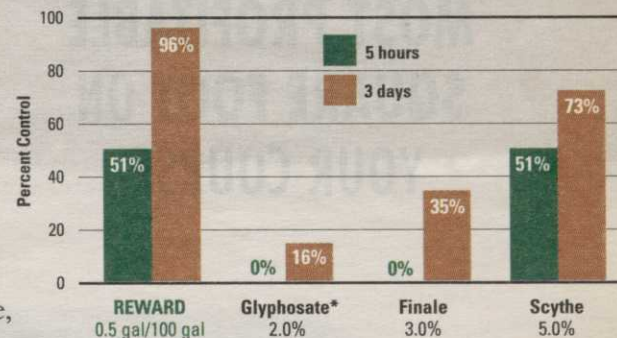


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CIRCLE #132

ZPP-REW-005

## ASGCA issues

Continued from previous page

part of which will be lit at night, includes a full bunker area, an acre of putting, a putting course, a pitching area, and three golf holes. The experience, Awtrey said, will "teach people how to manage and move around a golf course."

The cost? Less than \$20 for four hours.

"As long as we can continue to make the game fun for the consumer, the game will continue to grow," Awtrey said. "I worry sometimes that we spend so much effort on a couple hundred players. That

is because we build golf courses in case we have to host a tournament."

The idea of maintaining the enjoyment of the game was picked up by the NGF's Frank.

"It is important that we enhance the experience, enhance golfers' skills, and increase their appreciation for the sport and the history of the game," he said.

Good and bad news looms in the future in regard to the number of golfers and golf courses, according to Frank.

With nearly 1,100 courses under construction and another 700 in the planning process, the number of openings over the

next five years will add about 2.6 percent to the overall supply, he said. While that may not seem significant, "it is when you compare it to the number of bodies who are playing golf," he said.

"Last year we played about 530 rounds of golf. If you look at the natural aging of the population, over the next 11 years through the year 2010, we project it will grow to about 635 million rounds of golf played."

The largest contribution is expected to come from Baby Boomers. "The aging of the population is absolutely good for golf since people of older ages tend to play

golf more frequently, moving away from high-impact sports like baseball, softball, tennis and the like," Frank said.

Citing findings of a study the NGF did with McKinsey & Co., he said there are 26 million golfers in the United States. The study identified approximately 41 million additional people who wish to play golf or play more golf.

Of the 24 million adult players in 1998, Frank said, 1 million want to play more golf. There are 42 million former golfers, 12 million of whom wish to return to the game. Of the 130 million nonplayers, 7 million have expressed an interest in trying the game. Among the 51 million total juniors in the country, 8 million are golfers now or wish to try the sport.

"So the upside is really strong," Frank said.

But certain measures should be done to take advantage of opportunities for the industry, he added, such as supporting alliances and initiatives of various organizations like The First Tee and the NGCOA's Get Linked advertising program.

As Hughes explained, Get Linked ads are now available to golf course owners from the NGCOA to personalize in promoting their own facilities, or to join with colleagues in marketing a region or group of courses.

"Supply outgrowing demand has been on our radar screen for a couple of years," Hughes said. "We have to build rounds and players. Rounds and players is like taking your temperature. It's the basic fundamental measure of healthiness of this industry. We should never take our eyes off that goal. It is as important to me and my constituents, you, Wilson Golf, Ping, the USGA and everybody who's in this business. That's where we make our living."

The advertising campaign, he said, reaches owners at the grassroots level, "where the battle will be won or lost," giving them the tools to bring new golfers into the game and retain them.

"Retention is as important as attraction... Retention is what's killing us," Hughes said. "Our [ad] kit tells how to attract and retain golfers. We identified four constituent groups who are likely to play golf and who we have a chance of success with immediately. We identified youths whose parents play golf, Baby Boomers and early retirees, spouses of golfers, and executives, especially women executives."

The GCSAA, meanwhile, is launching its own \$3.2-million advertising campaign showing that superintendents maintain the places where people play golf and retain "the great traditions of the game."

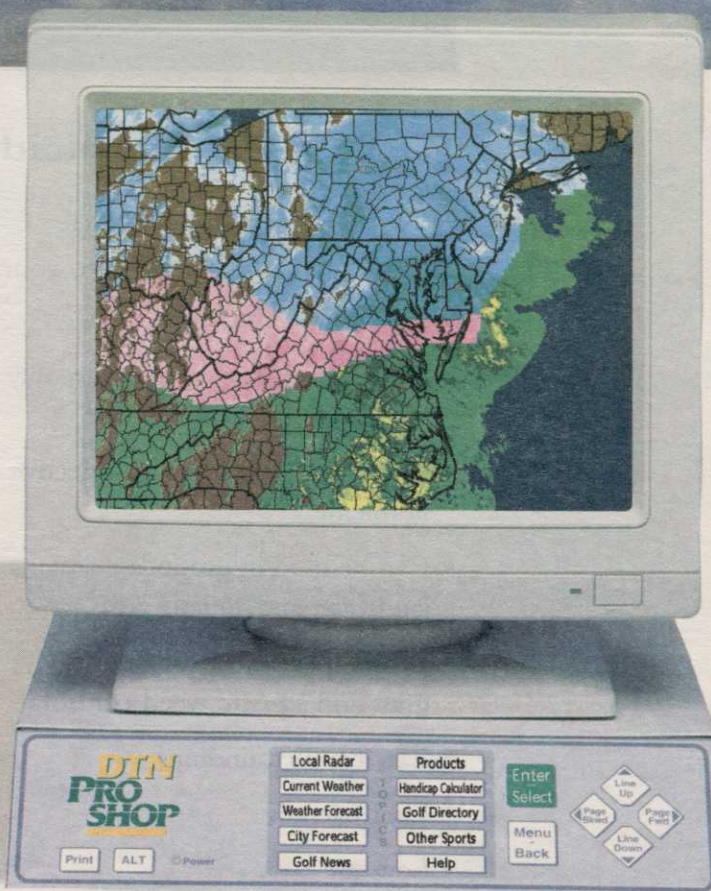
Also, O'Brien said the GCSAA is printing a book on developing a golf course in a community and will:

- continue to work with environmental groups;
- continue to upgrade and engineer its educational program;
- continue to move from a turfgrass to a golf organization — "as seen in our involvement at World Golf Village, in the First Tee and a couple of areas never on the map: charity programs and junior programs";
- expand its influence among small-budget golf courses; and
- continue as a spokesperson for the game.

GCSAA, he said, will "move from behind



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CIRCLE #109

Continued on next page

GOLF COURSE NEWS

## Palmer

Continued from page 23

ber, and said: "The competition—in golf and course design—is what we're all about. It's what makes America what it is today ... Jack and I agree on a couple of things. One is the golf ball. We need to slow it down."

The way in which the golf industry controls the golf ball, he said, "will keep all of us going in the right direction in the years to come."

Returning to the \$2 million annual maintenance cost for his Bay Hill Golf Club in Orlando, Fla., Palmer said: "Somewhere along the way we have to ... 'back away' [on high maintenance] if we're going to keep the game going."

"We need to look at all the aspects of the game—from players and their equipment to superintendents to people coming into the game—in order to retain the traditions of the game."

Seay, a past president of the ASGCA, introduced his design partner, saying, "Everything he does is measured at different levels of seriousness."

Reading a comment by former ASGCA President Don Knott that the golf course should not be reduced to a "standard predictable venue," Seay added: "The golf course architect must resist design standards, or we get fur-

ther away from the origins and very essence of the game. Arnold's real contribution to golf course architecture is that he has allowed all of us at Palmer Course Design Co. the privilege to resist."

He said Palmer has taught the design firm's 24 employees (including 10 course architects) about design, business, discipline, style, commitment, re-

sponsibility and humility.

"Arnold has allowed, supported and encouraged variety and individuality in all of our designs," Seay said, adding that Palmer:

- "has supported our expanded concepts in business and design";
- is always eager and excited with a new twist; and
- loves to solve design and

construction obstacles.

Quoting Palmer in his new autobiography as saying, "Golf is my foundation," Seay said, "Golf is founded on integrity."

Seay went on to say about Palmer, "Actions are doctrine, and his actions are the foundation of honesty and integrity in his life."

While "accomplishments come from individuals who are

outstanding achievers of unusual capabilities," Seay said, Palmer relishes the mantle of proud parent, grandparent and gentleman.

And he quoted from Bob Hope: "Arnie's Army doesn't just consist of his golf supporters, but includes the countless individuals who recognize that his character, stability and just plain niceness will be emulated by generations to come."

## ASGCA issues

Continued from previous page

the scenes to center stage," speaking of environmental stewardship, explaining the financial viability of maintaining the cost side of the game, and "explaining to people what the beauty of golf is all about: the landscaping, the tournament conditions."

While the GCSAA pursues these aims, golf course builders have determined to put money and labor behind its Sticks for Kids Program, the premise of which is to get golf clubs into the hands of people who wouldn't normally get them.

"The GCBA has donated more than \$125,000 to date," said Kubly. "We have 10 programs across the United States, in cities where we have builder members."

Also, he said, his colleagues have agreed to build the first 100 courses in that program at cost or a deeply discounted price. This contribution is estimated to amount to \$10 million to \$15 million, Kubly said.

To give developers and would-be developers an idea of the cost of building golf courses, GCBA has updated its regional construction cost databases and is making them available on CD-ROM and sending them to all USGA Green Section members and First Tee participants, Kubly added.



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CIRCLE #116

## Chisholm Trail

Continued from page 23

unbroken sod with wild grasses as tall as a horse. The golf and the terrain are perfect."

"I always had the ambition to have my own golf course," said the 75-year-old Thayer, a semi-retired optometrist and 10-handicapper who has played the game since he was 23. "When I found this perfect piece of ground, that did it."

Occupying 140 of the property's 320 acres, the 18 golf holes simply "were there," said Bruce Dixon, a course de-

signer with Grant Golf in Winnipeg, Manitoba, who was a graduate student in landscape architecture specializing in course design at Kansas State University when planning began in spring 1997. "We didn't have to move too much earth."

"It had some topographic changes," Dixon added. "We found good green sites, then worked backwards to the tees, came up with a dozen layouts and went from there."

The layout includes four double tees: for holes 2 and 11; 1 and 10; 13 and 15; and 7 and 9.

Dixon said he and Thayer, a design aficionado who tinkered with most all the holes once Dixon had taken the job in Canada, "tried to aspire to Sand Hills and Prairie Dunes. The course has the same strengths as Sand Hills. And with 320 acres we had to ability to choose where to put the features."

Prairie Dunes, Thayer said, "was an inspiration. I knew we had land like that around here if I could ever find the right piece. I moved here in 1991 and started looking, and found this property three years ago."

The property has good soils as well as natural drainage and surface runoff, he said.

Indeed, the "soils" are 70-percent sand, a major reason Chisholm Trail could be built for less than \$1 million — despite a double-row irrigation system — and fulfill another of Thayer's dreams: "I wanted to build an affordable course for the people of Dickinson County."

Affordable? How does \$13 weekday and \$15 weekend green fees sound? Annual membership is \$400, plus \$100 for each additional family member.

And while Chisholm Trail plays from 4,746 to 6,568 yards, "Don't let the yardage mislead you," Thayer said. "You'd better bring your 'straight' game."

Only 34 acres of the property were touched once construction started in July 1997, Thayer said, including digging two irrigation ponds.

The greens were seeded with L-93 bentgrass and the fairways with an 80-20 bluegrass-ryegrass mix. The first rough is fine-leaf fescue and the second native bluestem grass that grows 6 feet high.

Thayer hired the husband-wife superintendent team of John and Mary Haun, who had been operating Palo Duro Creek in Canyon City, Texas, and the municipal course in Hereford, Texas, respectively. But the Hauns wanted to return to their native Kansas.

Mary Haun, who grew up 3 miles from where Chisholm Trail now sits, said: "I thought, growing up, that we needed an 18-hole golf course."

Little did she know that later in life she would be working on one.

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## LaFoy elected

Continued from page 23

ton, Country Club of Birmingham in Birmingham, Ala., and Glenmore Country Club in Charlottesville, Va.

As ASGCA president, LaFoy will focus on informing golf course developers, golfers and the public about golf course architecture. He will work to highlight the professionalism, talent and code of ethics that distinguish the members of the society. He also will promote the continued development of affordable and accessible golf facilities.

Raised in Greenville, LaFoy received a bachelor's degree in architecture from Clemson University in 1968 and began to work for Cobb. After a three-year stint in the U.S. Marine Corps, he became a full partner in the business. LaFoy assumed much of the design responsibilities when illness slowed Cobb in the early 1980s and he took over the design business after Cobb's death in 1986.

LaFoy is joined on the ASGCA Executive Committee by Vice President Brian Ault of Kensington, Md., Treasurer Damian Pascuzzo of Walnut Creek, Calif., and Secretary Jay Morrish of Flower Mound, Texas. Bob Lohmann of Marengo, Ill., is immediate past president.



## Joneses join forces in Las Vegas

LAS VEGAS — Robert Trent Jones Sr. and son Robert Jr. are jointly designing the new Southern Highlands Golf Club here.

Southern Highlands Golf Club, which broke ground in January, is the centerpiece to a 2,300-acre master-planned community under development by Southern Highlands Development Corp. The golf

course is expected to open to members in December.

"We are extremely fortunate to have both Joneses designing this golf course," said Garry Goett, president of Southern Highlands Golf Club, L.L.C. "Jones Sr. is one of the true legends of the game, and his son, Robert Jr. (Bobby), is an extraordinarily

gifted architect in his own right. They have both been very active in the project. Senior has reviewed all of the routing and grading plans and has had input in every aspect of the design.

"Bobby also has been very hands-on, and has visited the site numerous times to ensure that the course is everything we have envisioned."

The Joneses' design features

a 7,240-yard, par-72 layout built on 220 acres of rolling desert foothills and rocky ridges 12 minutes south of the Las Vegas Strip.

"What's most striking about this golf course is the tremendous variety the golf experience provides," said Jones Jr. "Although it is a very traditional design in some respects, with lush landscaping and plenty of

turf, we've used the elevation changes, water features and bunker patterns to give each hole a personality all its own."

Southern Highlands' construction and early golf operations are being supervised by Raven Golf, an Arizona-based golf course development and management company that operates courses in Phoenix and Tucson, as well as in Florida.

## Doak's Apache

Continued from page 23

good, in fact, that the Apache builders moved just 25,000 to 35,000 cubic yards of dirt, enough to build an irrigation lake.

The "great stuff" this property consists of, he said, is "valleys between hills 50 feet high and just wide enough for one golf hole," a big wash meandering down through it, a number of smaller washes all around, and desert vegetation minus saguaro cacti.

"The puzzle in the desert," Doak said, "has always been how to keep the golf course playable. While it's going to be challenging from the back tees, it's a casino resort and has to be playable for the average golfer. The key in the desert is to get it wide enough to make it playable. And we have no big carries.

"In Phoenix and Tucson they take the washes out of play. But we wanted to do as little of that as possible. We used the washes as much as we could. But 'wide' was the key. We have 200 feet of grassing on most holes. Instead of instantly going from manicured to desert, we have rough on the edges."

The dwarf bluegrass fairways and bluegrass-fescue blend in the roughs was seeded the first of November "We're high enough and it gets cold long enough that consultants thought Bermudagrass would die," Doak said. "And they wanted something they wouldn't have to oversee. We're trying varieties of bluegrass that you can cut to a half-inch."

The local contractor, Apache West, "did a fine job shaping the lake," Doak said, and a 50-man crew of Apache laborers did the majority of the construction, led by project manager Neil Iverson (who helped install the \$1.3 million irrigation system) and shaper Jim Urbina.

The intention of the San Carlos Apache Nation, Doak said, "is to get casino visitors and others to drive up for the day from Tucson or Phoenix where it is 15 degrees hotter in the summer."

Once those golfers are there, Doak thinks he will have them hooked. Among his designs, he said, Apache Stronghold ranks "way high. It looks different from anything else in the desert and certainly than anything we've done. It has great topography and the best set of par-3s in Arizona."

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## Builders association tops 200-membership mark

CHAPEL HILL, N.C. — The Golf Course Builders Association of America (GCBAAs) grew by more than 25 percent in 1998, adding 46 construction companies and suppliers to bring its total membership to 212.

"And we added 12 more in January and February," said Phil Arnold, executive vice president

of the 27-year-old organization.

"I think it's a sign that the golf course construction industry is maturing," he added. "Naturally I'd like to think our association has had a lot to do with fostering that process, but we've also benefited from the explosive growth in the golf industry as a whole. There are some huge general

contracting companies that have been building golf courses for years, but as a small part of their overall business. Those companies are now coming to our association."

A typical such company is Ranger Golf, a division of Ranger Construction Industries, Inc. of West Palm Beach, Fla., which,

in turn, is a subsidiary of Vecellio & Grogan Inc., of Beckley, W.Va., a 40-year-old diversified general contracting firm.

Ranger Construction built its first course, PGA National GC in West Palm Beach, in 1979. By early 1998, the firm had completed 35 projects with many of the world's leading architects and decided to form a separate division devoted exclusively to

golf course construction.

"We are active in the major trade associations of our other businesses, so we looked for the central association in golf and that was the GCBAAs," said President Michael Slade. "Not only were we interested in exposure to potential customers through the [GCBAAs membership] Directory, but we were impressed by the group's education and certification programs. They really seem to have a clear view of the big picture."

Despite its credentials, Ranger joined as one of the association's 176 associate members late in 1998, while its application for Builder Member status is reviewed and verified by association officials.

"It means something to be a Builder Member," said Arnold, "and the board of directors wants to keep it that way."

As of March 1, 48 companies had achieved Builder Member status, of which 26 are Certified Golf Course Builders.

At the other end of the spectrum is Oliphant Golf Construction of Madison, Wis., founded by Mike Oliphant, who struck out on his own 2-1/2 years after working with Landscapes Unlimited, Inc., of Lincoln, Neb., one of the premier course builders in the nation. His mentor was LUI President Bill Kubly, current GCBAAs president.

"I'm a builder and that's the organization for my industry," Oliphant said. He noted the international exposure through his listing in the GCBAAs Membership Directory and pointed out the association's educational and networking opportunities.

Typical of the new Associate Members from the supplier ranks is Firestone Building Products Co. of Carmel, Ind., represented by Bill Jones.

"We manufacture pond liners and we recently decided to enter the golf market," Jones said. "Where else would we go to meet and work with potential customers, get to know the architects, and get continuing information about the industry from the perspective of our market?"

### ASGCA REVISES BOOKLET

CHICAGO — The American Society of Golf Course Architects (ASGCA) has produced a new edition of "An Environmental Approach to Golf Course Development." The booklet is for those planning or remodeling golf courses. The fully illustrated book addresses ways golf course architects, superintendents, builders, developers, owners and others are working to create and maintain courses in concert with environment. To obtain a copy send a check for \$12 to: ASGCA, 221 N. LaSalle St., Chicago, Ill. 60601.

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**THE LEDGES OPENING  
BACK NINE**

Maine's latest in a series of new golf courses — The Ledges — will open its back nine holes on May 27 in York. Managing partner Pat Rocheleau said the local Chamber of Commerce will hold its annual fund-raising tournament on the William Bradley Booth-designed track that day. "We're hosting it as a 'thank-you' for the support from the business community and the locals who supported us," Rocheleau said. A grand opening for the entire 18 holes will be held at a later date to be determined, he said. Above is The Ledges' signature 8th hole, which demands an accurate tee shot from ledges high above the green, which is partially encircled by a large pond.

## GCBAA joins First Tee program

2-year agreement calls for builders to construct facilities at cost

CHAPEL HILL, N.C. — The Golf Course Builders Association of America (GCBAA) has become a major partner in The First Tee program, an initiative of the World Golf Foundation to provide affordable and accessible playing opportunities for beginning golfers, especially youths.

The First Tee program, announced in November 1997 by Honorary Chairman George Bush, aims to provide hundreds of new golf facilities over the next decade by working through local chapters that can help design programs and facilities to meet the unique needs of each participating community.

"Golf may be unique in the values it teaches," said Bush. "It is a game of honor, integrity and good sportsmanship and it can build an individual's self-esteem and self-control."

"This is a perfect fit for the GCBAA," said Phil Arnold, executive vice president. "Our members build the best golf courses in the world and The First Tee program meshes with our own Sticks for Kids initiative." Sticks for Kids is a nationwide program to provide good quality golf clubs for children who otherwise could not afford them.

The two-year partnership agreement calls for GCBAA members to construct facilities at or near cost whenever a participating builder can be matched with a local First Tee chapter. Participation by individual builders is voluntary.

Common types of facilities will be three-hole courses, a pitch-and-putt courses, nine-hole executive courses and full-scale 18-hole courses. All will feature extensive teaching and practice areas and other facilities.

"The saving in construction costs could really be significant — amounting to several million dollars, depending on how many facilities we can participate in," said Arnold.

The First Tee's initial goal is to develop 100 facilities by Dec. 31, 2000. "Four of the six Official Suppliers to the First Tee are GCBAA members," Arnold noted. The four are Toro (maintenance and irrigation equipment), Club Car (golf cars and utility vehicles), Syncroflo (pump stations) and Jacklin Seed (grass seed).

The partnership agreement specifically calls for the GCBAA to encourage members to:

- participate in the construction of First Tee facilities at or near cost;
- participate in programs, projects and activities that encourage youth, especially inner-city youth, to play golf and pursue educational and career tracks in golf; and
- incorporate wildlife habitat preservation, enhancement and interpretation in the construction of learning and playing facilities.

In addition, the association will:

- promote The First Tee program and sites; and
  - make The First Tee a beneficiary of the Sticks for Kids program.
- In turn, The First Tee program will:
- cooperate in establishing criteria and construction practices to encourage environmentally friendly development of facilities;
  - assist in the design and construction of facilities to meet community needs and site constraints;
  - provide opportunities for minorities, especially youth, to learn to play golf; and
  - participate in programs that encourage youth to play golf and pursue educational and career tracks in the golf, recreation and tourism industries.

## Club officials approve LaQuinta CC renovation

LA QUINTA, Calif. — La Quinta Country Club officials have approved a \$1.5 million plan to renovate the golf course.

"The Jewel of the Desert" hired Robert Muir Graves and Damian Pascuzzo to update the 40-year-old track. Scheduled improvements include rebuilding 18 greens and tees, remodeling bunkers and upgrading the practice facility.

"Our design intent is to improve playability and strategy," said Pascuzzo. "We want to add some tees to vary the length and to

make the 9th and 18th holes more thought-provoking. A primary concern of ours is to maintain the overall character of the golf course. It's a great members course and we aren't going to change that."

In the rotation for the Bob Hope Chrysler Classic on the PGA Tour, La Quinta plans to break ground April 19 with an opening set in time for the Tournament in January 2000. Trans Pacific Golf Construction Co. of Pleasant Hill has been chosen as the golf course contractor.



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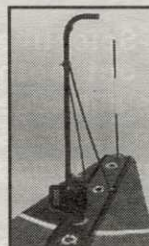
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(Parcel 3)

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- 217 spaces, 79% leased, 29.74 acres
- 1998 gross income: \$508,000

(Parcel 4)

### WATER & SEWER PLANT

- 1998 gross income: \$179,928
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- Sewer plant requires additional capacity for phases 4, 5 & 6

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CIRCLE #137

## Sandpipers Treasure Coast acquires Sandtrap Services

FT. PIERCE, Fla. — Sandpipers of the Treasure Coast Inc. has announced acquisition of Bob Ritten's Sandtrap Services.

"The acquisition of Sandtrap Services gives Sandpipers the unique opportunity to offer unparalleled golf course bunker revitalization service utilizing its proprietary pneumatic process," said John Hett, Sandpipers' president.

Sandpipers uses a pneumatic process to pump sand into sand traps without the damaging effects of heavy equipment, heavy worker traffic and a slow work process. The proprietary process of Sandpipers allows the company to apply precise amounts of sand to golf course bunkers without damage to the

course, without interruption of play and an entire course reportedly can be revitalized in approximately nine days.

"Through the combined efforts of Sandpipers and Sandtrap Services, we offer a complete line of sand services," said John Hett. "Services include a 1-inch dusting of bunkers to complete sand removal and refills, bunker prep work, drain repairs and replacement. We perform all work on new or existing courses in a fraction of the time of conventional measures.

"Due to the efficient application method and our non-intrusive techniques, new and rebuilt golf courses can wait until after the 'grow-in' period before placing bunker sand."

## Palmer to design San Antonio track

SAN ANTONIO, Texas — Arnold Palmer is designing an 18-hole public golf course at the 1,645-acre La Cantera development in Northwest San Antonio, according to officials with La Cantera Development Co., a subsidiary of USAA.

"We are very pleased to announce that Arnold Palmer's company, Palmer Course Design Co., is the designer of our new golf course," said General Robert T. Herres, chairman and chief executive officer of USAA. "His excellent reputation in the industry, along with his experience in developing high-quality golf courses, is a great match for La Cantera."

"The topography of La Cantera exhibits its interesting characteristics that will make it both beautiful and unique," said Palmer. "Our plans are to transform a challenging tract of land into a spectacular championship golf course. Its natural beauty will be displayed through existing rock croppings, dry creeks, hills, and an abundance of incredible views of San Antonio and the Texas Hill Country."

According to Herres, the course will heighten La Cantera's mix of projects and attractions, which includes Six Flags' Fiesta Texas theme park, the soon-to-open Westin La Cantera Resort, the Mira Vista luxury apartments, and the proposed Security Service Federal Credit Union headquarters.

The 250-acre, par-71 course measures approximately 7,000 yards and will include a clubhouse, driving range and 2.5-acre irrigation pond — and is projected to create approximately 60 new jobs.

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grassy weeds, Trimec Plus has systemic activity. Combined with Trimec, the MSMA is also carried into the weeds, causing activity inside the plant as well. This allows Trimec Plus to control grassy weeds with *less* MSMA and *less* risk to desirable turf species. For a convenient solution to post-emergent grassy weed and broadleaf control, get Trimec Plus!

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## Chi Chi unveils first Puerto Rican effort

DORADO, Puerto Rico — PGA Senior Tour star Chi Chi Rodriguez, Willowbend Golf Course Design and Empresas Sadurni have opened Dorado Del Mar Golf Course here. The 18-hole, 6,937-yard course is located along the Atlantic Ocean and surrounded by native palm trees. It is a Chi Chi Rodriguez signature golf course, his first in Puerto Rico.

Architectural planning and construction management for the course was led by Bruce A. Besse, Robert St. Thomas and Greg Sherwood of Willowbend Golf Course Design, an affiliate of Willowbend Development Corp., of Massachusetts. Empresas Sadurni, the owner of the project, served as master developer.

Willowbend, which specializes in golf and resort development and operations, is the majority owner of the Westin Rio Mar Beach Resort and Casino in Rio Grande.

Dorado Del Mar is Willowbend's 3rd golf project in the Caribbean.

Rodriguez is a native of Rio Piedras and has redesigned two other Puerto Rican courses — Rio Mar Country Club in Fajardo and Dorado Beach in Dorado. He has also laid out courses in Japan, Florida and Nevada.

BRIEFS



WESTERN GOLF, US HOME TEAM UP

SCOTTSDALE, Ariz. — Western Golf Properties has signed on to manage two additional golf courses for U.S. Home Corporation — Heritage at Eagle Bend in Aurora, Colo., and Heritage Hunt in Gainesville, Va. — bringing to four the number of U.S. Home-owned courses that Western Golf operates. Both new courses are Art Hills-designed layouts that are under construction and scheduled to open in late 1999 or early 2000. Western Golf also announced that Raymond Madro has been named the Scottsdale-based firm's director of budgeting and feasibility.

TROON TAKES ON TIDEWATER

SCOTTSDALE, Ariz. — Tidewater Golf Club & Plantation, located in Myrtle Beach, S.C., has hired Troon Golf, the Scottsdale, Ariz.-based golf management, marketing and development company, to oversee the operations of its 18-hole championship course. Tidewater Golf Club has consistently been ranked among the top Myrtle Beach area courses every year since its 1990 opening.

AKW TO MANAGE FLA. TRACK

WINTER HAVEN, Fla. — Classic Golf Group has been hired by AKW Golf of Hattiesburg, Miss., to design an 18-hole "Classic Challenge" course near the town of Freeport in the Florida Panhandle. The owners of AKW Golf are Ken and Gloria Wyninger. AKW is a golf construction and management company, and will, under Len deBoer's guidance, construct the course. The course is scheduled to be ready to plant in the spring of 2000, with an opening anticipated that summer or fall.

PALMER APPOINTS 3

ORLANDO, Fla. — Arnold Palmer Golf Management has made several recent appointments. Ward Weischet is the new superintendent at Oronoque Country Club in Stratford, Conn.; Glen McKinney, general manager of Penderbrook Golf Course in Fairfax, Va.; and Mark Bryant, general manager of the Presidio Golf Course in San Francisco.

LINKSCORP ADDS ILL. LAYOUT

NORTHFIELD, Ill. — LinksCorp has purchased Windermere Country Club. Located 10 miles northwest of Orlando, Fla., Windermere is nestled between lakes Crescent and Roberts in the Butler Bay residential subdivision. The 6,693-yard course was designed by Ward Northrup and built in 1986.

# USGA, ClubCorp work to prepare fabled Pinehurst No. 2 for U.S. Open

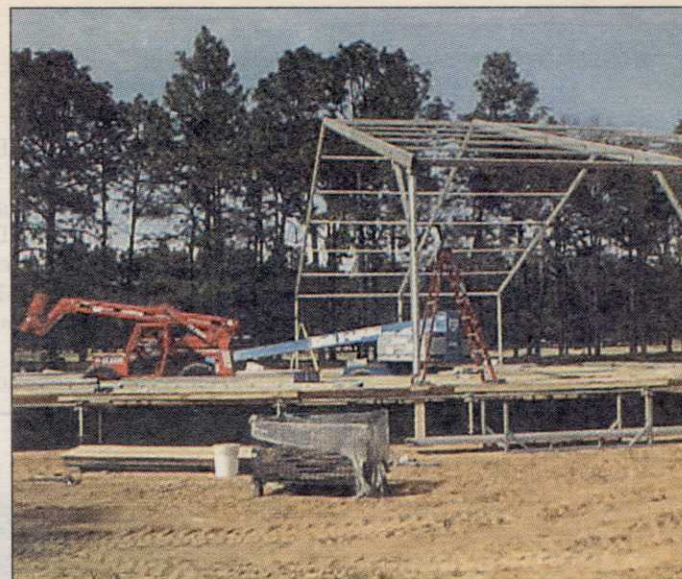
By PETER BLAIS

The United States Golf Association is working closely with Pinehurst Club Management and the ClubCorp staff to prepare and maintain the Pinehurst No. 2 course for the 1999 U.S. Open.

"I've been going to Pinehurst for 10 years, so agronomically, I think we're set," said Tim Moraghan, who oversees course preparation for U.S. Open events for the USGA Rules and Competition Committee and was superintendent at Pinehurst Course Nos. 3 and 5 in the late 1970s and early 1980s.

"When we do our course preparation memo, we set the guidelines as far as fairway widths, cutting heights, green speeds and that sort of stuff. I'll work with [Pinehurst Director of Golf Course Maintenance] Brad Kocher and his staff to make sure those guidelines are met. Paul Jett, the on-course superintendent for No. 2, and I have been working together for four years. He knows what we want. We just don't want to have any problems the week of the event...Inside the ropes it will be a piece of cake. They know exactly what I want and I know exactly what they can do."

Said Jett: "Some of the old stories of the USGA coming in and running things have either been blown out of proportion or hasn't happened in this case. Tim Moraghan, [USGA Director of Rules and Competition] Tom Meeks, myself, Brad Kocher and [Pinehurst Assistant Director of Golf Course Maintenance] Bob Farren have worked closely together getting the course set up. The only thing they [USGA] has asked for is fairway widths; contours to be a certain way; a certain height of rough; and no rough around the greens, which we didn't have to begin with. Outside of that, they come in every two to three months, I'll take Tim or Tom around.



Pinehurst Championship Management is constructing the Corporate Village located between Pinehurst Nos. 2 and 4 in preparation for June's U.S. Open.

They've been fine with everything we've done."

Pinehurst has hosted numerous major championships over the years including the 1989 U.S. Women's Amateur and the 1994 Senior Open.

"We felt through the Women's Amateur and the Senior Open that the greens were not as good as they should be," Moraghan said. "We were a little skeptical about bringing the U.S. Open to Pinehurst with the condition of the putting greens. Pinehurst asked, 'If we rebuild them, will we get the Open?' The USGA said 'Rebuild them and we'll see.' They did it and boom, it's a done deal. They came out wonderful."

The USGA's major concern prior to the Open will be how the new G-2 bentgrass that was selected as a putting surface several years ago holds up, Moraghan explained. "There were

Continued on page 37



John Daly-designed Wicked Stick in Myrtle Beach, a TSC-managed property.

## Customer service name of TSC's game

By PETER BLAIS

MYRTLE BEACH, S.C. — "Diamond Back's venom will burn through you as no golf course ever has," reads the TSC Golf management company brochure announcing the September 1999 opening of the North Myrtle Beach, Russell Breeden-designed layout.

But while the course may have an occasionally nasty bite, the Diamond Back staff should help ease the pain. Before the first ball is struck at Diamond Back, every employee will take part in the Customer Service Training Program used at all TSC-managed properties.

"It all starts with customer service and everything else comes after that," said Gary Schaal, one of the principals and the 'S' in TSC Golf.

The TSC program is job specific and consists of training films, role playing and employee feedback. The program keys on each guest encounter opportunity. TSC may interview employees as many as three times before offering employment so that both sides know what the other expects.

All the effort has paid off with one of TSC's courses, Wachesaw Plantation in Myrtle Beach, ranking 13th nationally in customer service in a recent *Golf*

Continued on page 36

## Cobblestone carved up among two management giants

DEL MAR, Calif. — ClubCorp and American Golf Corp. have completed their joint acquisition of the Cobblestone Golf Group from The Meditrust Companies and divided the courses between them.

On Feb. 11, ClubCorp and AGC announced they had joined to form Golf Acquisitions to purchase the 45 Cobblestone golf properties from Meditrust for \$393 million.

The transaction was the largest acquisition of golf courses ever, according to a ClubCorp statement.



ClubCorp ACQUISITIONS

winds up with 22 golf properties and 24 courses located Texas, Florida, Georgia, North Carolina and California. They include:

California: Morgan Run Resort & Club, Rancho Santa Fe.

Georgia: Eagle's Landing Country Club (CC), Stockbridge; Trophy Club of Gwinnett, Snellville.

Florida: Deer Creek CC, Jacksonville; Eastlake Woodlands CC, Oldsmar; Remington Golf Club (GC), Kissimmee; Sabal Point C, Longwood.

North Carolina: The Currituck Club, Corolla; Devil's Ridge, Holly Springs; Lochmere, Cary; Nags Head Golf Links (GL), Nags Head; The Neuse, Clayton; Oak Valley GC, Advance.

Continued on page 36

**SIGNET MOVES ON ATLANTA**

ATLANTA — Chestatee developers McRae & Stolz and partner Brian Ferris have selected Signet Golf Associates to manage the community's golf club. Chestatee's 18-hole, daily-fee course is being designed by Denis Griffiths and is slated to open late this spring.

**TSC**

Continued from page 35

Shop Operations survey.

In addition to Diamond Back and Wachesaw Plantation, TSC also manages John Daly-designed Wicked Stick Golf Links and Deer Track Golf Resort in Myrtle Beach, River Bend Links in Tunica, Miss., and the Country Club of Beaufort (S.C.). The firm also has a consulting/management contract on

a course in Black Lake, Mich.

"We're trying to grow at a deliberate pace," Schaal said. "We'd like to grow at a couple courses a year for three to five years... And we are looking at properties outside of the Carolinas.

"The consolidation trend [in the golf industry] will continue. Our company strategy is to be sensitive to alliances wherever we can. We're also building alli-

ances when we do new projects. That's the case in Myrtle Beach and unilaterally across the country. We're allying ourselves with golf courses similar to the ones we operate in Myrtle Beach, plus the accommodations people.

Schaal, Steven Taylor and F. Darrell Childers are the three principals in the Myrtle Beach-based firm. The three originally teamed up as investors in Wicked

Stick, where they also consulted during construction and assumed management when the course opened in 1995.

Schaal has more than 25 years experience as a golf course owner. He is a PGA pro, past president of the PGA of America and has been involved in the ownership and operations of Deer Track, Indigo Creek Golf Club, Wicked Stick, Cotton Creek Golf Club and Country Club of Beaufort.

Taylor, with more than 25 years of business experience, anchors the management side of TSC. His expertise is in business planning, budgeting and financial management, with experience in golf course construction, maintenance and management.

Childers' expertise is in personnel and resources. He has more than 20 years experience in the day-to-day operations of golf organizations.

The firm provides any level of service from feasibility studies to turnkey design-build-manage agreements.



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**Cobblestone**

Continued from page 35

Texas: The Hills CC, Live Oaks Golf Course and Yaupon Golf Course at the Clubs of Lakeway, Austin; Whitestone GC, Benbrook; Stonebridge CC and The Ranch CC, McKinney; Trophy Club DFW, Dallas/Fort Worth; Lost Creek Golf Course, Aledo; and Woodcrest CC, Grand Prairie.

American Golf was allocated 23 courses. National Golf acquired ownership of 20. The American Golf properties are located in Arizona, California, Georgia, Texas and Virginia. They include:

Arizona: Ahwatukee CC, Phoenix; The Foothills GC, Phoenix; The Lakes at Ahwatukee, Phoenix; Red Mountain Ranch CC, Mesa.

California: Balboa Park GC, San Diego; Carmel Mountain Ranch, San Diego; Eagle Crest GC, Escondido; El Camino CC, Oceanside; Saticoy Regional GC, Ventura; The Vineyard at Escondido, Escondido.

Georgia: Trophy Club of Apalachee, Dacula; Trophy Club of Atlanta, Alpharetta.

Texas: Blackstone GC, Frisco; Los Rios CC, Plano; Pecan Grove Plantation CC, Richmond; Ridgeview Ranch GC, Plano; Thorntree CC, Desoto; Sweetwater CC (2 courses), Sugar Land; Woodlake CC, San Antonio.

Virginia: Brandermill CC, Midlothian; Kiskiack GC, Williamsburg; Virginia Oaks GC, Gainesville.

GEI, an American Golf subsidiary, operates Sweetwater Country Club. Blackstone Golf Club in Frisco, Texas is to be built.



## Pinehurst Championship Management

Continued from page 1

pitality sales, operations, presentation, and volunteer coordination will be done by PCM. Inside the ropes, we will receive guidance from the USGA and do as they tell us."

Pinehurst is one of golf's shrines. It was famed architect Donald Ross' longtime home and has hosted many prestigious championships including the North and South Open (the nation's longest continuous-running golf championship), the 1936 PGA Championship, 1951 Ryder Cup and 1982 U.S. Amateur.

Pinehurst suffered from neglect in the late 1970s, but was restored to prominence by ClubCorp, which purchased the complex in 1984. ClubCorp restored Course No. 2 to its original condition and hosted the 1989 USGA's Women's Amateur, the 1991 and 1992 Tour Championships and 1994 U.S. Senior Open.

Pinehurst was awarded the 1999 men's U.S. Open in 1993. Rather than hire one of the larger tournament management firms to oversee the Open — firms such as IMG, Advantage International and Executive Sports — ClubCorp opted to start its own tournament management company. To head up the new firm, ClubCorp selected Wagner, a former PGA Tour marketing and championship director, who had overseen the 1991 and 1992 TOUR Championships on Course No. 2.

"The management here," Wagner recalled, "wanted someone who knew Pinehurst, understood how things are done here and could deliver a seamless presentation of the history and tradition that exists in this championship, rather than just slap up signs and say 'Let 'em play.' What you'll see is a seamless delivery of visual language and presentation from the time someone arrives in North Carolina. The same banners at the Raleigh-Durham airport are the same ones that will be on site at the tournament. The flowers and colors of flowers along the roadsides will be the same ones you'll see at the championship site. Our entire objective is to present the U.S. Open the way no one else could because it is being held at Pinehurst."

Since its inception, PCM has managed golf championships at both ClubCorp and non-ClubCorp facilities, including the 1996 U.S. Women's open at Pine Needles Lodge and Resort in Southern Pines. The firm plans to manage at least one major championship a year and was recently chosen to manage the 2001 U.S. Women's Open Championship again at Pine Needles. By mid-April, PCM also expected to be named manager of the 2002 U.S. Senior Open at Caves Valley near Baltimore.

PCM realized the need for state involvement in hosting a major tournament like the U.S. Open. To make this a North Carolina event, PCM developed a President's Council consisting of 16 of the state's biggest company chairmen, including Gov. James Hunt and former Gov. James Martin. Through PCM's work with that committee, North Carolina agreed to expand state roadways (primarily US1) leading to Pinehurst.

Other aspects of the Open that PCM has dealt with have included:

- Attracting corporate sponsors — PCM recruited 50-plus sponsors, a record number that included many first-timers.
- Building The U.S. Open Hospitality Village — Construction began in late March. The village, which includes more than 300,000 square feet of covered canvas tenting, will sit along holes 1, 2 and 18 of Pinehurst No. 4, another Ross design that architect Tom Fazio is redesigning and will be renamed The Tribute. Construction of The Tribute will begin following the tournament. A Media Village is also planned.

- Preparation of Course No. 2 — The course will close almost three weeks prior to the Open. PCM recruited 60 volunteers, many of them superintendents at U.S. clubs, to help prepare the layout. There will also be close to 18,000 bleacher seats.

- Traffic issues — Coordinating traffic and the 50,000 daily spectators in and out on the one road leading to and from Pinehurst will involve shuttles operating from two remote parking facilities 4.5 miles from the course.

The Corporate Village will include 217 corporate hospitality clients plus 13 Pinehurst corporate alliance partners, making it the largest hospitality contingent in the history of the U.S. Open, Wagner said. The corporate alliance partners have long-term relationships with Pinehurst. They not only purchase a corporate tent for the Open, but also spend a certain amount at Pinehurst every year.

"Pepsi, for instance, is designated the preferred soft drink of Pinehurst and the U.S. Open," Wagner explained. "We created an event for Pepsi at Pinehurst called the Pepsi Fall Invitational. Pepsi invites its 100 biggest bottlers, who in turn invite their biggest clients. Our surveys of the bottlers has shown this is the best thing Pepsi does all year. Second, Pepsi gets to say to their bottlers that Pinehurst Championship Management, which runs this invitational tournament for us, is the same company that runs the Women's,

Continued on page 38

## USGA/ClubCorp

Continued from page 35

a lot of questions from people whether Pinehurst should go with a new relatively untried cultivar," Moraghan recalled. "It's turned out quite well. There was a learning curve, like there is with anything. But Paul and his staff seem to have that under control."

Added Jett of G-2: "It was relatively untried around the country. But we had G-2 at Pinehurst for three years before it was ever put on No. 2. We had test plots and practice putting greens

that were 3 years old before we planted No. 2. And we had the advantage of having it on No. 8 the year before it was put on No. 2. So we got to see it for a year under golf course playing and maintenance conditions. We had no concerns with putting it on. We knew what it was going to do."

Said Moraghan: "The only other issue would be the rough. Being a Bermudagrass situation, we could not have it at the height we normally would for a cool-season grass. We're down between 3 and 4 inches and the intermediate rough will be at about 1-1/2 inches. The greens will be

Continued on next page

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CIRCLE #138

## Pinehurst CM

Continued from page 37

Senior's and now the U.S. Men's opens. That helps Pepsi and the bottlers build up their credibility and builds up the event itself."

PCM hopes to turn the traffic situation, which many see as a marketing disadvantage, into an advantage.

"We're in the middle of no-

where, but [geographically] we're also central to everything," Wagner explained. "We have a lot of land. We've secured over 200 acres on the north and south side of Pinehurst. One lot is three miles away and the other is five miles. We're able to feed those lots with some pretty good roads. The state began improving the roads leading into Moore County back in 1993.

The state is going to construct more than 1,000 trail signs leading from the major arteries at the state's borders and major airports to the championship. We've relied heavily on the state Department of Transportation [DOT] to develop a plan for us."

Those who say the state has little experience handling the crowds likely to descend on Pinehurst are vastly underesti-

ating North Carolina's capabilities, Wagner said.

"Every year, the DOT and Highway Patrol handle four NASCAR races at Rockingham and Charlotte that make this look like a go-cart race," Wagner said. "It dwarfs what we'll do here. They park 50,000 cars a day at Rockingham and 80,000 at Charlotte. Since we're not in a major metropolitan area, we won't have

the congestion problems they had last year in San Francisco when the U.S. Open was at The Olympic Club, or that they'll have this year for the Ryder Cup at The Country Club outside Boston."

The original business plan for the Open called for 25 tents and 50 corporate hospitality clients, basically break-even figures for PCM, Wagner said.

With more than 200 corporate clients, the Open stands to be a big money-maker.

"It wasn't our intent to make money on the U.S. Open, but to further position Pinehurst as the premier golf venue in the United States," Wagner said.

## USGA/ClubCorp

Continued from page 37

at least 1/8 inch and the green speeds between 10-1/2 and 11."

PCM's decision to allow public play to continue until 2-1/2 weeks before the Open doesn't concern Moraghan.

"It depends on the club and what they feel they can do," Moraghan said. "If it's a private club, it's what they feel the members will tolerate. From our standpoint, we'd like to have as much closure time as possible. But we don't have that strong a say. We can suggest that a club does this or that, but it's up to the club. As a resort, Pinehurst is doing us and the players a favor by closing down the end of May. That's above standard. This is the 13th or 14th Open for me and I don't think we've ever had that much closure time. The place will be perfect when the boys roll in there."

Added Jett: "The last day of play will be May 27. Tournament week starts June 14. We're looking to have all the fairway divots and ball marks on the greens healed by then. We want the course to be spotless by tournament week. The 17 days will give us plenty of time to do that."

Jett expects to have 60 volunteers, many of them head superintendents from around the country, helping the Pinehurst crew prepare and maintain No. 2.

"My staff that week will be around 90 people," the head superintendent said. "Many of the volunteers are from the Eastern part of the country. One gentleman is coming from Scotland. Marsh Benson from Augusta National and Mark Michaud from Pebble Beach will be here, too."

As for the Tom Fazio redesign of Course No. 4 that is currently underway, Moraghan said: "That's an incredible project. They've really turned that all around."

Moraghan said he had little objection to the changes, despite the fact No. 4 is a Ross design. "It has been tinkered with a lot. It's a great piece of land. But Pinehurst had some concerns about the way the course flowed and thought they could make it better. And they did."

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## BRIEFS



**HENKEL TAKES HELM AT INGERSOLL-RAND**  
WOODCLIFF LAKE, N.J.—Ingersoll-Rand Company announced the election of Herbert Henkel as president and chief operating officer, effective April 5. In addition, Henkel has been elected to the New Jersey-based manufacturing company's board of directors. As part of Ingersoll-



Herbert Henkel

Rand's management succession plan, Henkel, 50, is slated to succeed James Perrella as chief executive officer in October. Perrella will continue as the company's chairman. Henkel comes to Ingersoll-Rand from Textron Inc. where he was president and chief operating officer.

**AMERICAN CYANAMID NAMES MILLER AS SENIOR TECH SPECIALIST**

PARSIPPANY, N.J. — American Cyanamid, a manufacturer of herbicide and insecticide products for professional markets, announced that Kyle Miller has been named senior technical specialist for the company's professional turf and ornamental products group. Miller will provide technical support for current Cyanamid products including Pendulum herbicide, Amdro Pro fire ant bait, and Image1.5 LC herbicide. He will also provide support for Mach 2 turf insecticide, which is marketed by RohMid LLC, the joint venture between Rohm and Haas and American Cyanamid.

**RAIN BIRD'S SHREVE TO MANAGE BRANDS INTERNATIONALLY**

AZUSA, Calif. — Rain Bird Golf announced that Mike Shreve has assumed responsibilities as international products brand manager. As brand manager, Shreve will advocate for Rain Bird Golf products internationally. He is responsible for meeting sales goals, providing forecasts and marketing analysis and developing marketing programs for golf promotion worldwide.

**HIGGINS TAKES MARKETING COMMUNICATIONS REIGNS FOR PTI**

SYLACAUGA, Ala. — Pursell Technologies Inc. (PTI), manufacturer of POLYON fertilizer coating technology, announced the addition of Dr. Jeffrey Higgins as director of marketing. Higgins is responsible for all of PTI's marketing communications activities, including advertising, public relations and sales marketing support.

GOLF COURSE NEWS

10<sup>th</sup> anniversary  
SUPPLIER BUSINESS

# Terresolve's soy-based, two-cycle oil ready for market

By MICHAEL LEVANS

CLEVELAND — If it were up to Terresolve Technologies Ltd., maintenance sheds around the country would emit the scent of French fries in lieu of burning petroleum oil.

With funding from the United Soybean Board, Terresolve has formulated a soybean-based 2-cycle, air-cooled engine oil, EnviroLogic 440, that it will begin to market into the golf course industry by mid-1999.

"Soy oil is biodegradable, non-toxic, based on a renewable resource and supports the agricultural industry," said Mark Miller, chief executive officer of Terresolve. "It won't kill the grass and it won't leave a long-term sheen on the water if it seeps into the environment. And when it burns you do get an aroma, we've been told, of French fries."

However, soy oil does tend to break down when exposed to oxygen, one of the

curves the company had to overcome.

"We start out with soy oil and do a few things in house to enhance its performance," said Miller. "There are certain performance chemistries that you have to put in as well that enhance wear protection and oxidative stability."



Terresolve's line up of natural lubricants

According to Miller, these additives consist of other natural esters. "The esters are soy, canola, sunflower. Since we're focused on these bio-based products and we understand what it takes to make them work in industrial applications."

Cost may be a hurdle as it moves 440 to market. According to Miller, the raw materials, the base fluids, are more expensive than petroleum. "But we can get pretty close to the prices, maybe one and a half to two times the price," said Miller. "When you consider a gallon of

Continued on page 41

NEW MARKET PLAYER

## Ecogen teams with Plant Health Care

LANGHORNE, Pa.—Ecogen Inc., a developer of environmentally friendly, microbial biopesticides, announced that it has entered into an agreement with Plant Health Care, Inc., to distribute four bioinsecticide and biofungicide products for control of caterpillars, grubs, powdery mildew and other pests in non-agricultural markets.

The agreement extends for one to three years depending on the product and market.

The products include AQ10 biofungicide, Crymas WDG Bt

bioinsecticide, Lepinox WDG Bt bioinsecticide and Cruiser, and insecticidal nematode product, packaged in granular or powder form for application as water-based sprays.

"We're delighted to have Plant Health Care as a marketing partner in the U.S. to give us a presence in these major non-agriculture markets," said James Reilly Jr., Ecogen's chairman and chief executive officer. "We expect that the efficacy and ease of delivery of our products will enable us to make inroads in these markets."



**NEW PRODUCT OF THE MONTH: SWEEP EX**

The SweepEx broom is now available as a riding mower attachment kit. This efficient mounted broom makes for fast grounds cleanup and generates minimal dust and flying debris. This makes it safe to use around moving vehicles and pedestrians and extends the life of the mowing equipment versus a rotary broom-style attachment. The mounted broom can be used year round to clear debris, leaves, water, snow and mud. Bristles are made of durable polypropylene. Brush sections can be replaced by simply detaching the end protectors. Widths range from 4'-9'. The SweepEx mounts to riding mowers, utility vehicles, pick-ups, skid steers, buckets, fork lifts and tractors. No hydraulics required. For more information, contact 800-725-8377.

**PINTO IS TEXTRON'S PICK FOR EUROPE**

PROVIDENCE, R.I. — Harold Pinto has been named managing director of Textron Turf Care and Specialty Products-Europe. Pinto has responsibility for manufacturing operations and sales facilities in England, Germany, France, Italy and Australia.



Harold Pinto

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## BASF receives EPA registration for Drive

RESEARCH TRIANGLE PARK, N.C.— BASF's herbicide, Drive, has received registration from the U.S. Environmental Protection Agency (EPA), according to Charlie Keefer, director of regulatory affairs at BASF.

The active ingredient — quinclorac — represents a new chemistry for the turf herbicide market and may be used on turf species including creeping bentgrass, Kentucky and annual bluegrass, perennial and



annual ryegrass, tall fescue, common and hybrid Bermudagrass and zoysia. Target weed species include crabgrass, dandelion, speedwell, and numerous broadleaf and grassy weeds. It also controls torpedograss and kikuyagrass.

## Eco Soil announces two key internal moves

RANCHO BERNARDO, Calif. — Eco Soil Systems Inc. announced that L. Jean Dunn Jr., chief financial officer, has resigned.

"Jean has played a key role in Eco Soil's transition to a public company and its rapid growth to date," said William Adams, chairman and chief executive officer.

Dunn, who has served as chief

financial officer since the summer of 1996, added: "I have genuinely enjoyed my relationship with Eco Soil over the past three years, and I will miss my associates at the company. I am proud of my accomplishments at Eco Soil, and as I step down as chief financial officer, I believe that I leave the company well positioned for the future."

Upon Dunn's resignation, Mark Buckner will assume the duties of chief financial officer of the company.

•••

In related news, Eco Soil Systems Inc./Turf Partners announced the appointment of Thomas Vrabel, Ph.D. as bioherbicides product manager and technical services director. Vrabel is responsible for managing bioherbicides dispensed through the company's injection system, BioJect, or delivered via the fresh packaged microbials, FreshPack, program.

Vrabel joins Eco Soil from Phone-Poulenc Ag Co., where he was senior product development manager for commercial operations.

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## MACH 2 available in fertilizer formulations

PARSIPPANY, N.J. — RohMid LLC has announced that MACH 2 Turf insecticide will be available in fertilizer formulations for the 1999 application season. Now in its second year on the market, MACH 2 is used to control grubs and other soil-borne pests in turf.

Three companies will offer the new MACH 2 plus fertilizer combinations: Knox Fertilizer Company, Inc., based in Knox, Ind.; LESCO, Inc., based in Rocky River, Ohio; and St. Louis, Mo.-based Lange-Stegmann Co.

## ABT PUTS FINISHING TOUCH ON NEW SENIOR MANAGEMENT TEAM

HENDERSON, Nev. — AgriBioTech, Inc. announced that Drew Kinder has been appointed to the office of the president as co-president. With Kinder's appointment to this position, the new, recently announced senior management team at ABT is complete.

Kinder is past president of the new York Seed Association and a Northeast Regional VP of the American Seed Trade Association.

Kinder sold his company — Kinder Seed, Inc., Buffalo, N.Y. — to ABT in 1998. He founded and directed Kinder Seed during 1988 to 1998. Prior to founding and operating his own company, Kinder was general manager of Whitney-Dickinson Seeds, Inc., Buffalo, NY, a division of Stanford Seed Company, from 1980-1987.

## Metallic Power

Continued from page 1

The reaction takes place in the presence of potassium hydroxide, the liquid electrolyte found in alkaline disposable batteries.

"In a lead/acid battery you're using the lead/hydrogen reaction. In this you're using the zinc/oxygen reaction which generates electrons," said Dana Lang, director of advanced turf care at Toro. "This device consumes zinc and creates zinc oxide and in the process gets electrical energy out of it."

When the zinc/air fuel cell is exhausted, zinc pellets are pumped into the cell along with a liquid electrolyte from a "vending-machine-sized" recycling/refueling unit. At the time of refueling, the zinc oxide byproduct produced by the reaction is pumped into the unit and is turned back into zinc pellet form.

According to Colborn, this refueling takes approximately five minutes, while the recycling inside the "vending machine" is continuous.

"Aside from the recycling advantage, there's up to seven times the energy per pound in zinc/air versus lead/acid," said Colborn. "We're not promising that at the beginning, but we are promising nearly double the range of the lead/acid system as development continues."

"What excited us [Toro] about this is that we can get something on the order of 4,000 watts for three hours for about 250lbs. of weight on the mower. That's very viable," said Lang. "Electrical power can be different from mechanical power because what we're talking about is an average power. We can generate 4,000

watts continuously for three hours.

"For the greensmower prototype what we'll probably end up doing is supplying peak power with small lead acid batteries that are essentially charged by the fuel cell. Those small lead acid batteries will be able to provide us peak power, maybe 20 horsepower, so we can climb as well as we climb with a 20 horsepower engine but you don't burn 20 horsepower all the time," said Lang.

While the idea of recyclable energy for turf care equipment is sure to spark the interest of superintendents, there are several barriers that have to be overcome — as in any new technology.

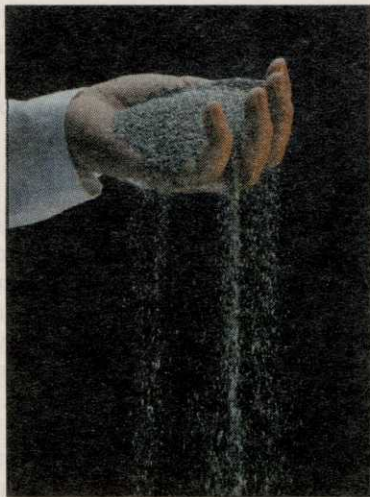
"The capital cost will be comparable to gas, but it's going to be more expensive than lead/acid," said Colborn. "But it's a totally new technology and at this point the principal downside is that it hasn't been proven yet."

"While Metallic Power has a good change at making this work, the big question is will it be commercially produced?" said Lang. "We've been talking about new battery technology for many years and nothing new has been commercialized."

But according to Colborn, it's going to be one step at a time.

"It's not going to happen tomorrow," said Colborn. "We're producing Alpha prototypes this year. Next year we're planning a field demonstration with 50 units. The following year we go into production."

"There are many advantages to an electrical product," said Lang. "You have zero emission, you can have a complete, electric computer-controlled machine. You can do things to make the machine more reliable, like limiting and controlling deceleration and acceleration rates."



A handful of zinc pellets used in the charging of the zinc/air fuel cell.

## Utility vehicles

Continued from page 22

because it keeps all wheels on the ground at the same time."

Club Car's new XRT 272 due out in June 1999, also features a suspension upgrade. "We not only have 11 inches of ground clearance, but also a fully independent front suspension and semi-independent rear suspension that enhances traction and gives the vehicle a better ride," said David Turner, brand manager for Club Car.

However, Club Car also designed the XRT 272 to be at home in both construction and turf applications. "The differential lock can be disengaged to make it safe for turf applications as well," said Turner.

Indeed, utility vehicles have to keep a low profile on the golf course. For that reason, John Deere is introducing the E-Gator utility vehicle to offer superintendents a quiet and efficient option. "Yet this is a true work vehicle," said Collis Jones, manager for golf and turf vehicles for John Deere. "It offers the same capacity as the Turf Gator and will run all day on a single charge."

Kawasaki will also be introducing a quieter version of their Mule 2520 later this year. "It will feature turf tires and sound deadening to tune it specifically to turf applications," said Mike Mount product specialist for utility vehicles at Kawasaki.

When it comes to vehicle durability, plastics are making a huge impact—or avoiding them according to Textron's Whurr. "On the Turf-Truckster, plastics help to cut down on costs, especially when used on the front end where collisions are likely to happen," said Whurr.

While many of the vehicles have plastic hoods, Toro's new Workman 1100 features a plethora of plastic parts. "We even put a plastic bed on the back, which is not only quieter, it is dent and rust proof,"

said Bornstien. In designing the 1100, plastics and computer aided design also allowed Toro to integrate storage features under the seat and in the dash board to give superintendents more places to stow their gear.

Other product innovations key in on making utility vehicles more comfortable to operate. Many manufacturers, like John Deere and Club Car will be featuring increased leg room and high-back bucket seats.

"It is all well and good to make it do everything from a work perspective," said Whurr. "But the vehicles also have to provide operator comforts."

## Terresolve

Continued from page 39

gasoline...You're mixing in three ounces in premix. So it goes from a \$1 to \$1.70 for that gallon."

But cost concerns, said Miller, should be overlooked once superintendents embrace the oil's most marketable property — it's kind to turfgrass.

"The largest volume selling product that we do is a bio-degradable hydraulic fluid for greens mowers, the EnviroLogic 100 series," said Miller. The 100 series has been on the market for three years.

*'Anything you take that's hot will wilt the leaf...But when our product penetrates the grass it biodegrades, so the plant lives.'*

—Mark Miller

"When the oil drops out of the hydraulic system onto the grass the heat does kill, or wilt the blade. The real damage to the plant comes when the petroleum saturates the root structure. With petroleum, you wilt the blade and you kill the plant structure. Anything you take that's hot will wilt the leaf, as every superintendent knows. But when our product penetrates the grass it biodegrades, so the plant lives."

Miller calls it "bounce back." Once a Terresolve product hits the grass "The grass is green in five days to two weeks. With petroleum you have to dig it up and cart it away."



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# Alternative spikes, computerized irrigation cited as greatest advances

LAWRENCE, Kan. — What is the golf course superintendent's equivalent to the recent equipment innovations of liquid metal club heads and titanium shafts?

Alternative spike golf shoes and computerized irrigation were the most frequent responses in a recent survey of superintendents.

Across the nation, 44 percent

of superintendents responding to the Golf Course Superintendents Association of America's (GCSAA) Golf Leadership Survey said computerized irrigation systems had the single most positive effect on the game in the last five years, in terms of golf course maintenance technology.

An even greater number, 60 percent, targeted the systems as

the management advancement with the most positive impact on operating efficiency. A majority of superintendents (52 percent) believe water consumption will decrease significantly over the next five years, due much in part to this new technology.

On the issue of innovations in golf accessories, superintendents overwhelmingly credited

the advent of alternative spikes for aiding efforts to deliver improved putting conditions. In fact, 89 percent identified alternative spikes as the accessory having the most beneficial effect on golf courses. Research indicates on the whole that alternative spikes do not damage putting surfaces as much as metal spikes, allowing for improved

ball roll. Anecdotal evidence indicates alternative spikes reduce the amount of resources needed for the upkeep of greens.

The survey also highlighted a number of other trends and issues affecting the superintendent within the industry, including the environment, golfer etiquette, and maintenance equipment.

## ENVIRONMENT

In predicting changes in course operations over the next five years, the environment figures most prominently. The three most common predictions were an increase in environmental regulations, improved environmental management techniques, and a decrease in water usage. Uncontrollable and unpredictable weather patterns will always play a role in maintenance expenditures. When queried on the effects of last year's weather phenomena known as El Nino, 44 percent of respondents answered it had increased costs at their courses.

## GOLFER ETIQUETTE

Superintendents identified failure to repair ball marks on the putting green as golfers' worst breach of etiquette (60 percent), followed by failure to rake bunkers (18 percent) and to replace divots (8 percent). Moving violations on golf car paths were also a concern. More than 40 percent said the most common violation was golfers driving on or too close to greens, while ignoring daily posting of golf car restrictions was next (33 percent).

## SLOW PLAY/BALL & CLUB DESIGN

Golfer disdain for slow play is shared by superintendents. The poll reveals slow play is a function of golf's popularity, golfer inexperience, and course conditioning. The respondents cited increased course traffic (33 percent), high rough and fast greens (26 percent) and decline of golfer etiquette (23 percent) as the primary causes of slow play. Superintendents said they have combated slow play by either lowering the rough (46 percent) or widening the fairways (25 percent).

Unlike efforts to control slow play, superintendents are not reacting to the distances achieved by new golf balls or advances in golf club/shaft technologies. Eighty-four percent of superintendents said they were not grooming their courses to compensate for increasing distances of golf balls.

## MAINTENANCE EQUIPMENT

Despite the high cost of maintenance equipment, superintendents prefer to buy rather than lease. According to the survey, 68 percent of superintendents buy their maintenance equipment, while 23 percent opt to lease and then purchase it.

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The 18th green complex at Oak Hill Country Club's East Course in Rochester, N.Y., got a Craig Selkner facelift in 1994. It included bunkers renovated into the classic style and with resodded faces and contouring at the rear of the green. See Selkner interview in this month's Development section.

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## NOTICE

### REQUEST FOR STATEMENT OF QUALIFICATIONS Comprehensive Golf Course Development Lyndhurst/Rutherford, New Jersey

Notice is hereby given that Statements of Qualifications (SOQs) will be received by the Hackensack Meadowlands Development Commission (HMDC), One DeKorte Park Plaza, Lyndhurst, New Jersey 07071. The HMDC is soliciting firms interested in preparing a comprehensive development plan for a golf course on a landfilled area in the Township of Lyndhurst and Borough of Rutherford, New Jersey.

SOQs will be received at the above address until 3:00 PM prevailing time, on Thursday, July 22, 1999. At the termination of the time for receipt of SOQs, they will be publicly opened and recorded. No SOQs will be accepted after the above time and date.

The Request for Statements of Qualifications and background document package may be examined at the HMDC offices. Copies of the document may be obtained upon payment of a non-refundable \$50.00 fee for each set, and the fee must be received before the documents can be mailed. Documents are available immediately. They do not have to be returned.

The HMDC reserves the right to reject all Statement of Qualifications.

If there are any questions concerning this document, contact Ms. Deborah Lawlor at (201) 460-4671.

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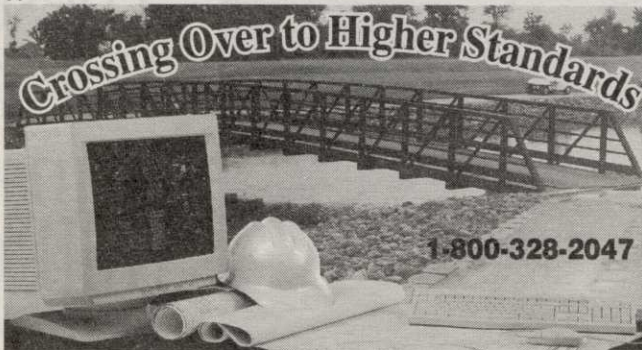
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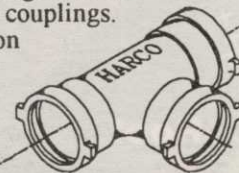


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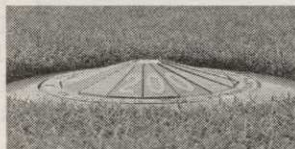
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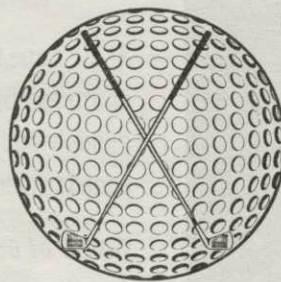
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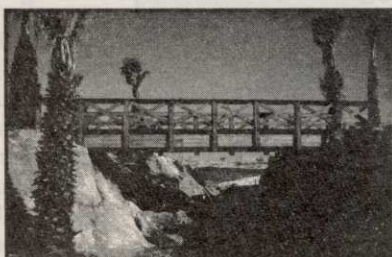
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### WatchDog offers mini weather station

The new WatchDog Data Loggers allow you to build a customized mini-weather station to suit your IPM needs. These compact weather recorders are economical, feature a LCD display and are operated by the powerful SpecWare 4.0 software. The

versatile WatchDogs can be configured with up to four sensors including air temperature, relative humidity, rainfall, leaf wetness, soil temperature, soil moisture and PAR light. For more information, contact 800-248-8873.

CIRCLE #205

### Smithco ready to market Tournament Rake

A new type of sand bunker finish rake—Tournament Rake—is now being marketed by Smithco, manufacturer of a broad line of golf course maintenance equipment.

Tournament Rake's three firming blades and four finish blades are constructed of high grade, rust-proof stainless steel. The firming

blades prefirm and plane the sand, then the free-working finish blades further firm the sand and deliver the most playable surface. The rake is available in two widths—84-inches and 72-inches—and the drawbar is made of structural-steel tubing. For more information, contact 610-688-4009.

CIRCLE #201

### Club Car's XRT 272 for extreme terrain

Club Car has introduced its new XRT 272, a new utility vehicle for extreme terrain. The vehicle is designed with a combination of advanced features, including an 11-horsepower, 351cc engine; four-wheel hydraulic brakes; independent front suspension coupled with semi-independent rear suspension; operator selected differential lock; and aluminum I-beam construction and aluminum cargo box.

The XRT 272 can also be customized with light bar with halogen work lights, 1,500 pound remote-operator front or rear-mounted winch or beverage holders.

For more information, contact 800-643-1010.

CIRCLE #202

## These Are Not Your Run-of-the-mill Chelated Iron Sources.

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These natural sugars prevent the micro-nutrients such as iron, zinc, copper and manganese from reacting with the soil, and keep them available to the plant for maximum root uptake.

Additionally, these sugars affix to the feeder roots. Being negatively charged, they act as additional CEC (Cation Exchange Capacities) and attract the positively charged nutrient cations, including Potassium, Phosphate, Calcium and Magnesium. Then, these nutrients are held for root absorption.

At the same time, the glucosaminates are consumed by soil microbes as feedstuffs, multiplying the microbe population with added benefits.

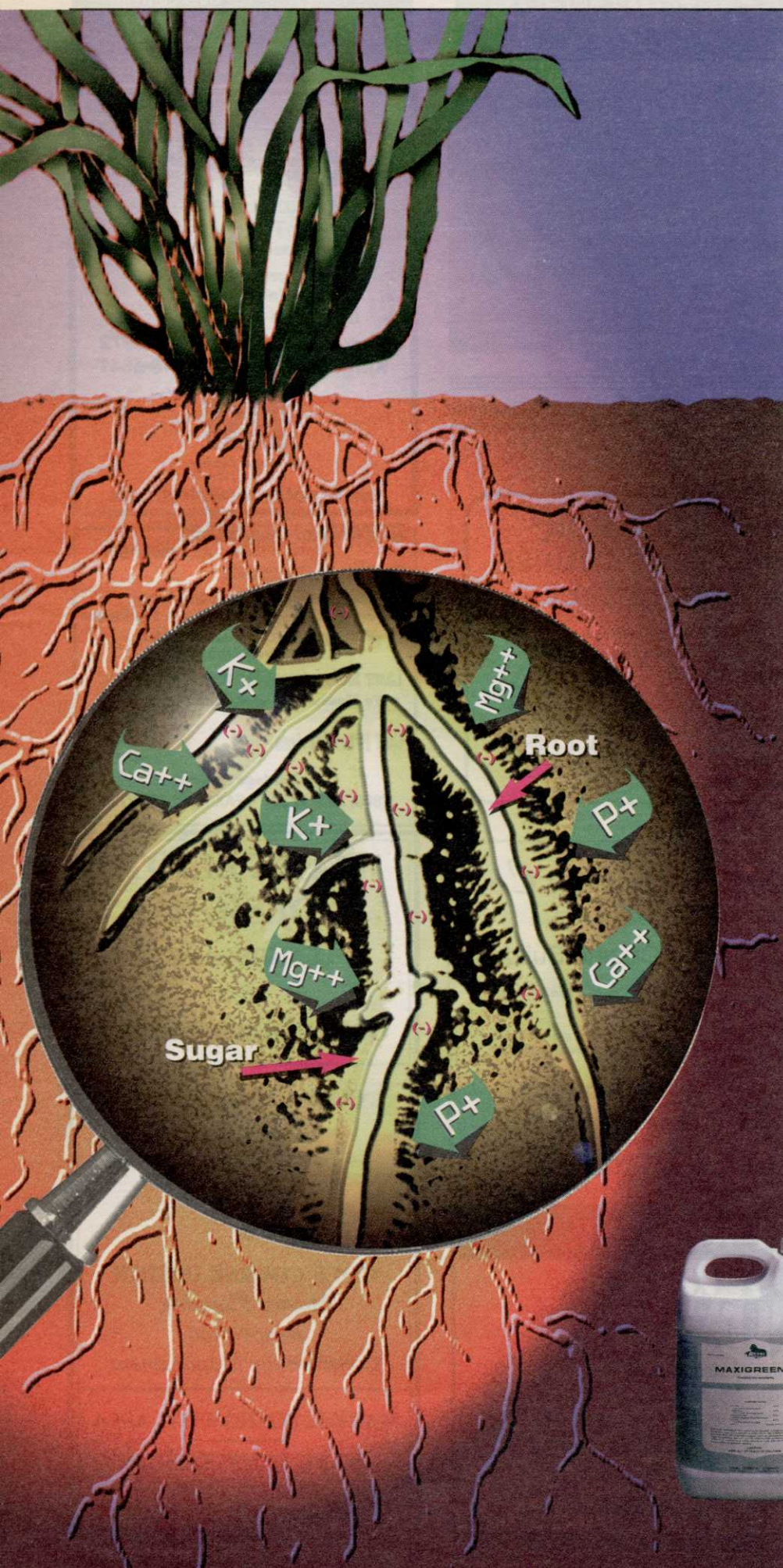
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CIRCLE #126



### ASP announces new varieties

Advanta Seeds Pacific (ASP) has added new turf varieties to its product portfolio. ASP 400 & 410 Perennial Ryegrasses have improved disease resistance and high level of fungal endophyte. Tested in the United States, ASP 400 & 410 have shown resistance to stem rust, dollar spot and red thread, as well as moderate levels of brown patch.

Regiment Turf-Type Tall Fescue is a new elite variety from ASP's breeding program and Tulsa Turf-Type Tall Fescue is an award winning variety from ASP. In the 1992 National Tall Fescue Test, Tulsa ranked number one in leaf texture. For more information, contact 800-288-7333.

CIRCLE #203

### Glenmac's rakes feature pure carbide

Glenmac's Harley Power Box Rakes now feature a new roller tooth tipped with pure carbide. This tooth has 5 times the life of the vanadium roller tooth which greatly reduces your down time and any extended maintenance procedures.

Designed for use on all Harley Power Rake models, these solid carbide teeth will take a bite out of the toughest jobs for years to come. If you have an existing Harley rake, you can upgrade by ordering a new roller fitted with these extended life teeth. For further information, contact 800-437-9779.

CIRCLE #204

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\*Appears in regional editions.

## Standard's TurfStone offer's signage options

Standard Golf Company's new TurfStone Tee Signs give golf courses the high-quality look of granite while costing significantly less than actual granite signs. Molded from composite material that resists cracking, fading, staining and golf course chemicals, these Tee Signs are designed to last, with proper care, for many years.

TurfStone Tee Signs offer various placement options from tee boxes to cart paths. In addition, TurfStone Tee Signs have solid steel backing that adds additional strength and mounting ease and are available in console configurations with ball washer, litter caddy and optional donor sign. For more information, contact 319-266-2638.

CIRCLE #206

## Toro ready with 720 series sprinklers

The Toro Company announced the introduction of its 720 Series golf sprinklers featuring Toro's patented MultiMatrx nozzle that delivers precise water applications to difficult-to-irrigate areas. Toro first introduced its MultiMatrx nozzle to the commercial market in 1996. It has a matrix design that sprays water simultaneously from up to 7 uniquely engineered ports depending on the flow selected. The new 720 series sprinklers will be available beginning in the summer of 1999. For more information, contact 909-688-9221.

CIRCLE #207



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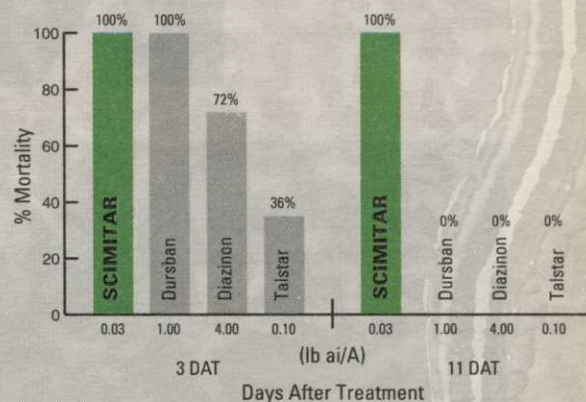
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### Residual Control of Fall Armyworm on Common Bermudagrass



Source: J. Reinart, Texas A&M University, Dallas, TX, 1996.

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