

GOLF COURSE NEWS

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USCCA to offer clubs group buying option

By PETER BLAIS

GRAND RAPIDS, Mich. — A recently formed organization designed to cut costs and increase efficiency at private clubs has ruffled a few feathers among other golf associations. The main focus of the United States Country Club Association (USCCA) is a group purchasing program called the Cooperative Alliance for Purchasing (CAP), according to

Jeffrey Dykehouse, USCCA's founder, president and sole stockholder.

CAP reportedly leverages the buying power of USCCA member clubs to provide the best possible price for products and services such as insurance, maintenance equipment and supplies, food and beverage products, office equipment, irrigation materials and equipment, golf

Continued on page 35



Jack Nicklaus (from right), Jack II and design associate Chris Cochran survey plans in Palm City, Fla..

Nicklaus hops aboard the public-access bandwagon

By MARK LESLIE

NORTH PALM BEACH, Fla. — The Nicklaus umbrella is about to expand, adding public-access golf clubs and community development and management to its bulky portfolio.

Keying on a market tailor-made for his name and the fast-growing segment of public golfers, Jack Nicklaus is starting a network of Golden Bear Golf Communities featuring semi-private, daily-fee golf courses.

First out of the gate will

be the Golden Bear Golf Club at Laurel Springs, north of metro Atlanta in southern Forsyth County. Ground was broken in April. Watch for future communities in Dallas, Chicago, Detroit, Tampa and Nashville, said Golden Bear Financial Services President Ira Fenton,

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SPRING START-UP?



Pro-active, mountain maintenance paves way for late spring opening

By MARK LESLIE

KEYSTONE, Colo. — While golf courses elsewhere across the northern tier of the country are taking off green covers and tending to new young turf in April, superintendents like Steve Corneillier at Keystone Ranch Golf Course are snowblowing their greens clear in May.

"The term 'spring start-up' takes on a whole new meaning here," said Corneillier, whose been keeping to this upcountry regimen for decades. "This is springtime in the Rockies at 9,300-foot elevation...

"When it snows on July 4th weekend we're never sure if we should count that toward last year's snow or next year's," he laughed, although snow did shut down the course for two days on that weekend in 1993.

In his 20 years at Keystone Resort, this has been

Continued on page 28

Sticks & Stones: Firms play the name game

By HAL PHILLIPS

The automobile industry annually spends millions of dollars researching model names that will catch the fancy of consumers. Sometimes the money is well spent; sometimes it may as well have been flushed down the toilet. Who, for example, dreamed up the Ford Probe, a product aimed ostensibly at young women on the move? Unfortunately for Ford, marketing experts believe the name tends to remind young women of pending trips to the gynecologist.

The Probe may be the golf course

superintendents' equivalent to an herbicide called Leech-Rite.

While the dollar value is modest in comparison, suppliers to the golf course industry also spend a great deal of time and money on the formulation of product names. Perhaps because of their sheer number and the often thankless nature of their functions, seed varieties and turf chemicals are tops when it comes to invention. Is it coincidence that so many seed varieties share names with automobiles?

"Mustang, Falcon, Dasher, Fiesta,

Continued on page 27

Focus on
Bermudagrass
p. 58



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NEWS IN BRIEF

DAYTON, Ohio — Walnut Grove Country Club here recently celebrated the conclusion of a two-year \$650,000 project that has modernized the 60-year-old course. Architect Brian Huntley of Canton oversaw the renovations, which included introducing the course's first water hazards at holes No. 3 and No. 13, a computerized dual-strand irrigation system, bunker reconstruction and grass mounds to provide backdrops for many of the greens. The work started on the back nine in 1993 and finished in April.

OXNARD, Calif. — The River Ridge Golf Club, Oxnard's 18-hole public course, has completed its \$200,000 clubhouse renovation and the first phase of a three-part, five-year golf course remodeling. The Ron Fream Golfplan Design Group Ltd. of Santa Rosa, Calif., developed plans for the course remodel. The labor and engineering were completed by Kyle Kenny of High Tide and Green Grass, the course operator.

EL PASO, Texas — The Underwood Golf Course here at Fort Bliss recently opened the newest 18 holes to be built in the El Paso region since Painted Dunes opened in 1991. The 36-hole facility is now called the Underwood Golf Complex. The new 18-hole layout is a desert-type golf course with very few trees and six small lakes.

FARMINGTON, Conn. — The Tuxis Plantation Country Club is about to become the largest golf facility in Connecticut. Nine new holes are expected to open in July, which will make Tuxis a 45-hole daily-fee facility. The new nine will connect with the club's existing "Green" course. Parts of the Green course have also been redesigned with new mounding to resemble the new holes.

Familiar face, VIT, secures Ocean Course from RTC

By PETER BLAIS

CHARLESTON, S.C. — The owner of Kiawah Island's other three resort courses was reportedly the successful bidder at the recent auction for the Ocean Course, the Pete Dye-designed layout made famous as the site of the 1991 Ryder Cup. Virginia Investment Trust (VIT) was the only fully conforming bidder for the seaside track, according to Tom Harris of CB Commercial, which marketed the Ocean Course for the RTC. VIT operates the Turtle Point, Osprey Point and Marsh Point courses, as well as the Kiawah Resort Inn.

RTC spokesperson Mike Fulwider re-

fused to confirm, however, that VIT was the winning bidder. Any purchase is subject to bankruptcy court approval, Fulwider said. The court is scheduled to render a decision this month.

VIT reportedly offered \$27,000,100, the minimum acceptable bid (also known as the reserve price) set by the Resolution Trust Corp (RTC), which has controlled the Ocean Course since former owner Landmark Land Co. filed for bankruptcy several years ago.

Charles Way, who developed Kiawah's residential area and the private Tom Fazio-



Tom Harris

designed course currently under construction, submitted the only other sealed bid. Way's bid was below the RTC's reserve price making him ineligible to buy the property, according to Harris.

VIT, Way and the Audubon Society of New York submitted an unsuccessful bid to buy the course late last year. A bankruptcy judge rejected that proposal because of concerns whether the partners could meet requirements imposed by local environmental groups. That decision put the

Continued on page 38



MANCOUR UNVEILS SUGARBUSH

Sugarbush Golf Club, one of Michigan's newest, upscale, daily-fee courses, opened for play here in Davison on April 29. The Industrial Mutual Association of Flint began construction of the 18-hole, public golf course at its Potter Lake Park property in May 1993. Under direction of designer David Mancour, Sugarbush combines the natural beauty of towering sugar maples, marshlands, and a serene lake with strategically placed water hazards and sand bunkers. Mancour cleared as few trees as possible and those remaining are very mature, offering relative seclusion for golfers on each hole. The front nine holes are similar to the Scottish links courses, featuring rolling hills of heather and sand bunkers. The back nine are predominately wooded, with holes 17 and 18 bordering the picturesque Potter Lake.

Governor scuttles Jersey park plan

By J. BARRY MOTHES

TRENTON, N.J. — The latest proposal to build an 18-hole golf course inside Liberty State Park overlooking the Statue of Liberty and Ellis Island has been rejected by Gov. Christie Whitman.

While Whitman's decision was a bitter disappointment to the Liberty State Park Development Corp. which had organized the proposal, it was a shocking but pleasant surprise to those who had opposed the plan for nearly three years. The decision, temporarily at least, puts an end to a long-running drama that had created much debate about golf course development on state-owned park land.

The Liberty State Park Development Corp. had proposed an 18-hole golf course to cover approximately half the park's 578 acres. The park features another 500 acres of water. The idea had been percolating off and on for 18 years.

Supporters of the proposed new golf course said it would help generate money to pay for other improvements in the Jersey City park. Opponents charged the course would run up a debt rather than

Continued on page 5



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Dan Dinelli, Superintendent of Grounds,
North Shore Country Club, Glenview, IL

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CIRCLE #103

First nine opens at unique resort north of Atlanta

YOUNG HARRIS, Ga. — Nine holes of the 18-hole, 7,100-yard course at the new Brasstown Valley Crowne Plaza Resort here in the mountains of northeast Georgia are expected to open this month.

The resort is a unique arrangement: the state Department of Natural Resources has contracted with Holiday Inn franchiser Stormont Trice Inc. to manage the state-owned land.

The course, designed by Denis Griffiths and Associates, is one of the main attractions at the new \$25 million luxury resort, which is about a two-hour drive from downtown Atlanta as well as Asheville, N.C., Greenville, S.C., and Chattanooga, Tenn. The remaining nine holes are scheduled to open in September, when a gala grand opening is planned.

Palm Bay, Fla. plans new muni

PALM BAY, Fla. — Construction of an upscale municipal golf course here could start by August if the 248-acre site passes environmental inspections. JTH Development of Riviera Beach is contracted to build the \$5.1 million, 18-hole course. The city recently agreed to a 30-acre land swap with abutting landowner Atlantic Gulf Communities, which owns about 2,000 acres surrounding the site. The swap will allow the city to smooth out the parcel and improve the routing. The course is projected to draw 30,000 to 40,000 rounds of play in its first year. The only other public courses in Palm Bay are Summit View Golf Club in Grant and The Habitat at Valkaria.

Old Georgia family bitten by golf bug

TUCKER, Ga. — A family influential in the development of the town of Tucker for 110 years is leasing land to developers to build a new, upscale 18-hole golf course and golf complex.

Sanford Burns, a lifelong Tucker resident, is leasing land to developers Maurice and Susan Whyte to build the Heritage golf course on 176 acres at the corner of Britt and Old Norcorss roads in

Gwinnett County just outside Atlanta.

The Whytes approached Burns with the idea of building a 7,200-yard, 18-hole golf course, an 8,000-square-foot clubhouse overlooking a 14-acre lake, a golf academy for public lessons and dining facilities. The Whytes have said the daily-fee public-access facility will be "one of the most ultramodern facilities in the Southeast."

Project seeks grandfather clause

MADISON, Wis. — An 18-hole golf course between Madison and Sun Prairie that suffered a setback this past spring may be back on track.

Madison officials who want to build the course were thwarted earlier this year when the Legislature barred the state from giving them conservation funds to help buy a 251-acre parcel. Now, however, it looks like the Madison-Sun Prairie project could be exempted under a "grandfather" provision.

Madison officials are looking

for \$1.5 million to help buy the land that could cost about \$3 million. Si Widstrand of the Madison Parks Division said a golf course in the area has been planned since 1991 and would preserve open green space between the two cities. The provision to allow conservation funds to go to the Madison-Sun Prairie project still must be approved by several state committees and the Legislature. The provision would apply to the Madison-Sun Prairie project only and no other courses in the future.

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Tenn. park project to be replaced?

TIMS FORD, Tenn. — Tims Ford State Park here on the shores of Tims Ford Lake may not get a new, 18-hole Jack Nicklaus-designed golf course after all.

Just months after the state and the contracted Golf Services Group of Houston indicated Tims Ford had become a leading candidate to be one of the four state parks for new golf courses under a \$20 million project, it appears things have changed.

State Architect Mike Fitts recently told a Tims Ford Council

meeting that the state still has hopes of building a golf course at Natchez Trace even though the site was deemed too costly to build on by Golf Services. Fitts said a new golf course at Natchez Trace would fit with plans to expand a convention center and build a new inn. If Natchez Trace is chosen as one of the four sites to build a new course, Tims Ford would probably be removed from the list.

The other proposed sites are Chickasaw, Cumberland Mountain and Harrison Bay state parks.

Jersey renovation won't impede play

KENILWORTH, N.J. — The show will go on here at the 27-hole Galloping Hill Golf Course complex.

Despite undergoing a \$6 million facelift to improve drainage, install a computerized irrigation system and rebuild all tees and bunkers, Galloping Hill will remain open for public play.

Although the project is expected to take three to five years to complete, play on the

course will not be disrupted, according to County Manager Ann Brann.

Brann said construction will occur on only nine holes at a time, adding that the pitch-and-putt course will not be affected at all.

Beyond the major renovations to the course, the county is also in the conceptual design phase of a new driving range at Galloping Hill that would be lighted for night use.

Liberty Park

Continued from page 3

make money. They also said it would turn a large chunk of a public park into a place that only a minority of people — golfers — could use.

"Liberty State Park provides green sanctuary in the state's most densely populated county," Whitman said, in announcing her decision. "More important, the park belongs to all the people of New Jersey. Public sentiment overwhelmingly supported keeping it that way, without a golf course. I agree."

"It is time to close this issue once and for all and move ahead with the original intent of Liberty State Park," Whitman said. "The idea was for Liberty State park to be a park in a classic sense — where people can go to enjoy quiet and solitude. A golf course doesn't fit that definition."

Instead of a golf course, Whitman has said she will direct state officials to tap part of the state's Green Acres fund to improve the park and make more of it available for public use. Officials have said it could cost as much as \$12 million to improve the partially run-down park.

Along with a golf course, Liberty State Park Development Corp. had proposed nine acres of ballfields and a 40-acre picnic and playground area.

Whitman and Department of Environmental Protection Commissioner Robert Shinn Jr. had been expected to make a decision on the proposed course before the end of 1994. But several self-imposed deadlines came and went without a decision on the \$20 million question. Her rejection of the proposal was particularly interesting given the fact that she has been criticized by environmentalists for her business-friendly policies.

"It's obviously a disappointment," said Peter Ylvisaker, president of Liberty State Park Development Corp., an advisory group made up of local professionals. "We had asked Gov. Whitman to make a decision on the project and it's not the decision we had wanted. Now the task still before us is what we do with the 225 acres which is a valuable public resource and working on alternatives to the funding of the greening of Liberty State Park ... We still have our thinking caps on."

Whitman's decision to reject a golf course at Liberty Park comes at a time when several other states around the country are in the midst of proposals, some highly controversial, to build new golf courses in state parks. Tennessee is in the midst of protracted negotiations over a contract signed in 1994 to have four new Jack Nicklaus-designed golf courses built in four different state parks (see story above). Golf courses are also either under construction or soon to be inside state park land in Mississippi, Maryland and Texas.

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Elevated teebox spurs zoning spat in Phoenix

PHOENIX, Ariz. — Is a golf tee a structure? How about a cart path with railings?

These are the key questions stirred up by the Phoenixian Resort's plans to locate an elevated tee 25 feet above a Phoenix no-building line as part of a new nine-hole addition.

Both the Phoenix City Council and Planning Commission have already approved the plans of ITT Sheraton, the owner of the mountainside Phoenixian Resort. Most of the proposed project was already allowed under existing zoning. ITT originally proposed building 10 luxury homes on the 2,305-foot-tall mountain but dropped those plans.

But the president of the Arcadia-Camelback Homeowners Association, some residents, and other local groups plan to contest the plans for the one elevated tee and a cart path to go with it. Phoenix planning laws say that no structures can be built above 1,440 feet, but neither the developer nor the two city groups that approved the project regard the tee and cart path as structures.

ITT has said it considered moving the holes downhill but decided it would bring them too close to existing homes.

Ohio farmer fills need, carves 18 from old dairy

GRANVILLE, Ohio — If the best known farmer in golf circles these days is Robert Landers, the former dairy farmer from Texas who is playing on the Senior PGA Tour, then Larry Bruce is a not-too-distant second.

Bruce, a 48-year-old farmer in Licking County outside of Columbus, has decided to build the 18-hole Links at Echo Springs on 220 acres of farmland he owns north of Granville and east of Johnstown.

Bruce's rise to golf prominence in central Ohio is a fast-moving tale. He started playing golf about five years ago because his new son-in-law played the game. When he had trouble getting on local courses, he built a single green with four tees of varying distances.

Bruce's wife next bought him a golf cart and people started telling him that one day he was going to build a golf course, which he laughed off at the time. Finally his visions of rolling fairways got the best of him.

Local golf course architect Barry Serafin did the course design. Bruce is a partner in the venture with owners of a construction company and a sand and gravel company that are supplying labor and materials. Bruce is the project manager.

Albertan layout to open this month

CALGARY, Alberta — A showcase 18-hole golf course in the Tirion Development subdivision in northwest Calgary opens this month, minus the smoke and ready to walk.

The course has instituted a strict no-smoking policy in and around the clubhouse. Carts will be required for the first year, but the club plans to go to a full caddie program in the future.

The highly sculpted, 6,280-yard layout was planned by Bill Newis and refined by Darren Young, who is executive professional at the club. Tirion's inaugural golf course superintendent is Dave Whitell.

Play this year will be restricted to members, all of whom have bought houses in the area and opted for a trial membership, and their guests.

Private track adds 9, goes public

ATTICA, Ind. — The nine-hole golf course here at Harrison Hills Country Club, owned by the Harrison Steel Co. and private since it opened for play back in 1923, will not only double in size this year but will also be open to the public starting in 1996.

Construction on the expansion started in March, according to project manager Geoff Curtis, and is expected to be completed by early August.

The existing nine-hole course, on the east side of U.S. 41 in Attica, is approximately 70 acres.

The new nine holes under construction will add about 80 acres, Curtis said.

In addition to the new grass, tees and putting surfaces, the nine-hole expansion also includes a four-acre lake.

Harrison officials had been planning an expansion since 1991 due to the increasing popularity of golf and the growing viability of public-access golf operations. In late 1993, they bought farmland adjacent to the nine-hole course which set up the expansion.



For some, beautiful drives down the fairway occur long before the first tee time.



Planter prefers golf to subdivision

ACKERMANVILLE, Pa. — Leon Brodt, a 63-year-old farmer, is building his own golf course on his former 150-acre farm here. Brodt is about 75 percent finished with the nine-hole Waltz Creek Golf Course. He is corporate partners with Championship Golf Course Services from Clarks Summit in Lackawanna County, which has handled the major construction.

Brodt seeded the fairways last year and the beginnings of the greens have drawn the interest of local golfers.

Brodt said he wanted to preserve the open space and still be able to draw income from it without having to subdivide for buildings. He left the contours of the land much as they were during his farming years.

Brodt isn't planning to build any kind of clubhouse but will build a small pro shop. He said he would also like to expand the course to 18 holes someday. Part of the course Brodt is building rests on the old Ackermanville Golf Course that closed about 15 years ago.

Coast Guard opens track to civilians

NEW YORK — The cash-strapped Coast Guard has opened its exclusive nine-hole golf course on Governors Island to civilians.

For the first time ever, the Coast Guard is offering limited corporate and individual memberships to outsiders because staff and budget cutbacks have threatened the future of the nine-hole, 3,803-yard course.

Five corporate slots at

\$5,000 apiece and 20 individual memberships at \$650 each were made available.

The course — with views to the World Trade Center, the Brooklyn Bridge and lower Manhattan — has double tees on each hole. Several fairways wrap around star-shaped Fort Jay, built in 1798.

The fort is encircled by a two-tiered, 30-foot-deep moat — a unique hazard.

NYC suit fails to halt project, but city appeals

SOMERS, N.Y. — A federal judge recently dismissed a lawsuit pitting New York City against developers of a golf course here, ruling the city had failed to prove the course would harm the Amawalk and Muscota reservoirs.

Earlier, the judge also lifted an order that had temporarily blocked construction of the 18-hole Robert Trent Jones-designed Anglebrook Golf Course.

The city of New York had argued the golf course, planned by Kajima International Inc. and Mitsui Fudosan Inc., would pollute the city's drinking water. U.S. District Judge Barrington D. Parker Jr. sided with developers, who argued that their storm-water pollution-prevention plan was more than adequate.

The city has said it will appeal Judge Parker's decision.

CASINO TO SUPPLANT COURSE?

NEW BEDFORD, Mass. — The New Bedford Municipal Golf Course may soon be turned into tribal land for the Wampanoag tribe of Martha's Vineyard. The tribe wants the land in part to develop a gambling and entertainment complex. If the federal government declares the site as tribal land it would not be subject to state laws, which forbid casino gambling. The tribe recently sent a 200-page application to the federal Bureau of Indian Affairs which will review the case and eventually deliver a decision. New Bedford officials are reportedly eager to transfer the land to the tribe, which has promised to share the proceeds of its proposed gambling complex with state and county.

CORRECTIONS

Because of misinformation supplied to *Golf Course News*, there was an error in April's Maintenance section on page 15. Charles Hugar Cadiz, honored by the Pennsylvania Turfgrass Council, had worked at Valley Green Golf Course in Etters, Pa.

...

Because of a reporting error, several mistakes appeared in a story on page 25 under the headline, "USGA publishes research findings for the industry." The 20-page technical summary entitled, "Golf and The Environment," is \$3 plus shipping and handling. The second booklet, "Golf Courses Benefit People and Wildlife," is free. To order, contact the USGA Orders Department at 908-234-2300.

...

Because of an editing error, the fax number for RISE (Responsible Industry for a Sound Environment) was published incorrectly in Hal Phillips' April column. The correct fax number is 202-463-0474.



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SUGAR LOAF TO EXPAND

CEDAR, Mich. — Sugar Loaf Resort owners are planning an 18-hole Arnold Palmer golf course as part of a \$5 million development to include up to 100 new homes. The northern Michigan resort currently has an 18-hole course that is 25 years old. The new Palmer course would cover 130 of Sugar Loaf's 1,110 acres on the west side of the resort's ski hill. The existing course is east of the ski hill.

PUBLISHER AUTHORS GC DEAL

KILLEEN, Texas — After working most of his life in publishing, Jim Longnecker has jumped into the golf course business. Longnecker recently bought the nine-hole Harker Heights golf course in this town of 65,000 southeast of Waco. He and his wife, Melody, are hoping to begin renovations to the course including building 27 new traps and restoring the greens. A self-described entrepreneur, Longnecker said he was looking through the classified ads in a Houston newspaper and saw the ad for the course.

Ohio's Blacklick takes summer break

COLUMBUS, Ohio — One of the most popular public golf courses in central Ohio will be shut down for the summer.

The 18-hole championship course at Blacklick Woods Metropolitan Park in Reynoldsburg was scheduled to close June 1 for work to start on a \$2.5 million renovation project that includes replacing 14 of the course's 18 greens and relocating three of them into more natural ar-

eas of the course.

Blacklick's 18-hole executive-length course will remain open during the project, which is expected to take nearly a year to complete.

The 14 greens to be replaced were originally part of the old Stoney Creek Country Club course, which became Blacklick Woods. The new greens will be rebuilt according to U.S. Golf Association specifications.

Hurdzan testifies on liability case; no bloody glove

COLUMBUS, Ohio — Golf course designer Michael Hurdzan recently found himself on the witness stand in state claims court.

Hurdzan, an award-winning designer with an international resume, was a key witness for the private York Temple Country Club in its attempt to stop the city of Columbus from widening a road which borders the 70-year-old course. The club has argued, unsuccessfully so far, that widening the road onto club property will prevent members from driving their cars safely in and out of the club and send golf balls flying onto the busy highway, posing a danger to passing motorists.

The proposed \$4.3 million road-widening project has been planned since the 1980s after a study found there were 117 accidents there in three years. The city says more development in the formerly rural area has made a wider road necessary for the safety of everyone.

Hurdzan, who is based in Columbus, was called to testify about the potential threat of more flying golf balls to passing motorists. The proposed widening would creep five feet inside part of the club's boundary and, specifically, closer to the No. 5 green, which is already quite close to the road.

Hurdzan testified he wouldn't design such a hole because of potential liability problems.

MATTHEWS PADS PORTFOLIO IN MICHIGAN

LANSING, Mich. — Course architect Jerry Matthews continues to build a legacy in his home state. The 18-hole St. Ives Golf Course layout is part of a \$5 million development at the Canadian Lakes resort in Mecosta County. The resort has two private courses, but St. Ives will be the area's public facility. Nine holes may be open by July with the full 18 scheduled to be ready by August. The other is an 18-hole 7,200-yard course at scenic Pine Mountain in the popular Upper Peninsula, a longtime winter resort. The as-yet-unnamed course is scheduled to open in July 1996.

MILLER DESIGNING IN UTAH

ST. GEORGE, Utah — Construction has started on the 18-hole Johnny Miller Signature Golf Course at the mouth of Snow Canyon near St. George. Miller teamed up on the design with Mike Reid of Provo, a consultant with the Johnny Miller Design Group. Reid, going one further, has said the course will have three "movements" — 11 holes through the Snow Canyon wash, four holes against towering red cliffs, and three challenging target holes carved out of lava flow.

GOLF COURSE NEWS



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Hickory shafts, gutta percha balls the new rule at Oakhurst Links

WHITE SULPHUR SPRINGS, W. Va. — Lewis Keller of New York has reopened a historic golf club 91 years after it closed — with an unusual twist.

The Oakhurst Links, which opened in May as a nine-hole course, was founded in 1884, not too far from The Greenbrier resort, as a six-hole course by Russell Montague for him and four friends to play. The layout closed in 1904.

Keller bought the golf course land and clubhouse in 1959 as a retreat and later as a place to raise thoroughbred horses. Three years ago, at the urging of Ladies Professional Golf Association official Phil Patton of Jupiter, Fla., golf writer Dick Taylor of Pinehurst, N.C., and Atlanta golf course designer Robert Cupp, Keller and his son, Lewis Keller, Jr., began the restoration.

But that's just part of the story.

Instead of using cavity-backed irons, graphite-shafted clubs and long-distance, high-trajectory balls, players at The Oakhurst Links will be required to use

hickory-shafted clubs and gutta-percha golf balls. They'll also have to aim shots around sheep that will double as a fairway maintenance team.

So far, Oakhurst has nine members who have paid an initiation fee of \$2,000 plus an annual fee of \$325. The course will also be open to the public, with \$45 greens fees that include the use of a set of hickory-shafted clubs. Golfers must also buy the gutta-percha balls at \$2 apiece.

Designers angle for Traverse City job

TRAVERSE CITY, Mich. — Hale Irwin, Mark McCumber and possibly Johnny Miller are considered the leading contenders to design the newest project at the Grand Traverse Resort. Northern Michigan resident Tom Doak is also reportedly in the running and could align himself with a PGA Tour member.

The project will integrate 18 new holes with an existing course to create two new

courses. Eventually a completely new 18-hole course will be designed. Ken Hornyak, the resort's director of golf and golf development, said a decision will be announced in June.

Grand Traverse Resort's master plan calls ultimately for 72 holes. Right now it has 36 — 18-hole Jack Nicklaus-designed The Bear and 18-hole Spruce Run. A new central clubhouse is also planned.

UMich course closed 'til 1996

ANN ARBOR, Mich. — The hometown of the University of Michigan is down to one public golf course for the summer of 1995. Leslie Park Golf Course, an 18-hole public course built in 1963 and site of the annual city golf championships, is closed for the year for \$2.2 million in renovations and new construction. Huron Hills, the other city-owned course, will remain open for the summer. Leslie Park is scheduled to reopen in 1996.

CALIFORNIA REPORT

La Quinta contracts with Tom Weiskopf

LA QUINTA, Calif. — Tom Weiskopf will join Jack Nicklaus, Arnold Palmer and Pete Dye as course designers at PGA West near Palm Springs. The Weiskopf course, set to open in 1996, is the first developed at PGA West since KSL Recreation bought the property in 1993. Weiskopf said his new PGA West course will be traditional, harkening back to courses in the Eastern U.S. and Scotland. Weiskopf's nod to tradition will include a unique design touch — a short "bye" hole after the 18th where tied matches can be decided. The bye hole will be 125 yards from the back tees and feature a lake and a bunker near the green and a bunker in the middle of the putting surface.

...

SAN BERNADINO, Calif. — Reversing an earlier Planning Commission decision, the county's Board of Supervisors recently cleared the way for a 36-hole golf course to be built near the Nevada border close to several major casino resorts. The project was proposed by Redlands builders and former two-term County Supervisor Dennis Hansberger, along with Primadonna Resorts Inc., which owns Whiskey Pete's and Buffalo Bill's casinos in Stateline. Construction is scheduled to start this summer. The project was opposed by some local residents and representatives of the Sierra Club and National Park Service.

GOLF COURSE NEWS

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*Based on research conducted by the Center for Golf Course Management, a subsidiary of the Golf Course Superintendents Association of America.
CIRCLE #107

If this isn't open space, what is?

Couldn't help but titter a bit when I read J. Barry Mothes' story on the long-delayed demise of Liberty State Park's proposed golf development (page 3). While this story has dragged on for 18 years and a definitive decision had to be reached at some point, it's ironic that Gov. Christie Todd Whitman — that pro-business, GOP wunderkind rumored to be the running mate of choice on at least two Republican presidential tickets — was the pol who leveled the final, fatal blow.

Whitman, of course, is New Jersey's newly elected Republican governor who stormed into office decrying the state government's anti-business stance on a range of public-policy matters. How interesting that she saw fit to bludgeon a proposal that would have preserved and enhanced a dilapidated park site while simultaneously generating funds to maintain the entire park.

Let's listen to a conservative politician staking out her environmental credentials, shall we?

"Liberty State Park provides green sanctuary in the state's most densely populated county," Whitman said, in announcing her decision. "More important, the park belongs to all the people of New Jersey. Public sentiment overwhelmingly supported keeping it that way, without a golf course. I agree."

"It is time to close this issue once and for all and move ahead with the original intent of Liberty State Park," she continued. "The idea was for Liberty State Park to be a park in a classic sense — where people can go to enjoy quiet and solitude. A golf course doesn't fit that definition."

It's this last part that really steams me. It's not necessarily Whitman's transparent, righteous attempt to cast herself as "sensitive" on environmental issues — so she can play the "Liberty State Park card" during an upcoming vice presidential debate!

What burns my bacon is Whitman's stubborn unwillingness to see public-access golf courses as open space, not to mention her use of class-based rhetoric to denigrate golf as inherently exclusive. The governor and, unfortunately, the public at-large still haven't grasped that public-access golf courses are green belts that smart communities have been exploiting for years.

Allow me a short, illustrative vignette:

I played George Wright Municipal Golf Course in Hyde Park, Mass., the other day. This truly magnificent Donald Ross design was laid out in 1931, when Hyde Park was still a sleepy suburb of Boston. The city has since overtaken the area, sprawling (as



Hal Phillips,
editor

Think you've got a handle on the left? Think again...

So, the Sierra Club is a bunch of wimps who've sold out to The Establishment. Factories don't burn down by themselves; they need your help. And President Clinton is environmentally "spineless."

Welcome to the world of *Earth First!* ... And pray they don't visit your golf course. The mere existence of *Earth First!* and its 100 chapters nationwide should make us all thank God for the other environmental groups — you know, the ones who are at least partially cohesive and rational in their thinking.

I just read through *Earth First! Journal* and got an education — an education I'd like to pass along to you. Of special interest to the golf industry is this edition's installment of "Dear Ned Ludd," a regular feature for discussion of "creative means of effective defense against the forces of industrial totalitarianism." With a disclaimer that neither the *EF!* movement nor the *EF! Journal* "necessarily encourage anyone to do any of the things discussed," the column details how to destroy a golf course's irrigation system — trusty hammer and flathead screwdriver in hand.

"Forget all that you have heard about pouring gasoline or Roundup on the greens," the column advises. "Don't even bother carving up the tee's [sic] or stealing golf carts. Just cut off that IV from the aquifer."

Now, think of your club's protocol as you read this caution to the Dear Ned Ludd reader: "A quick note on security. There is virtually no security. I worked as a night waterman and security guard at a municipal golf course for four months. I was specifically told not to mess with anyone that [sic] trespassed. I was instructed to call 911 and let the herbies deal with any vandals."

The last graph serves as a call to arms: "So now you know. Go get busy. And if you get really serious about drying out a golf course, get hired on. You'll make some extra dough while conserving precious water."

In another attack leveled at golf, an *EF!* reporter called Cedar says Freeport McMoran's Barton Creek Properties in Austin, Texas, "is polluting Barton Creek and Barton Springs with sewage effluent used to fertilize two existing golf courses." (First time I've ever heard of golf courses **desiring** effluent — and to **fertilize** to be sure. Boy, there's so much scientific knowledge in this group.)



Mark Leslie,
managing editor

Continued on page 23

Letters

DOAK WARNS AGAINST OVER-RENOVATION

To the editor

I read with interest your column about course "face-lifts" in the April issue.

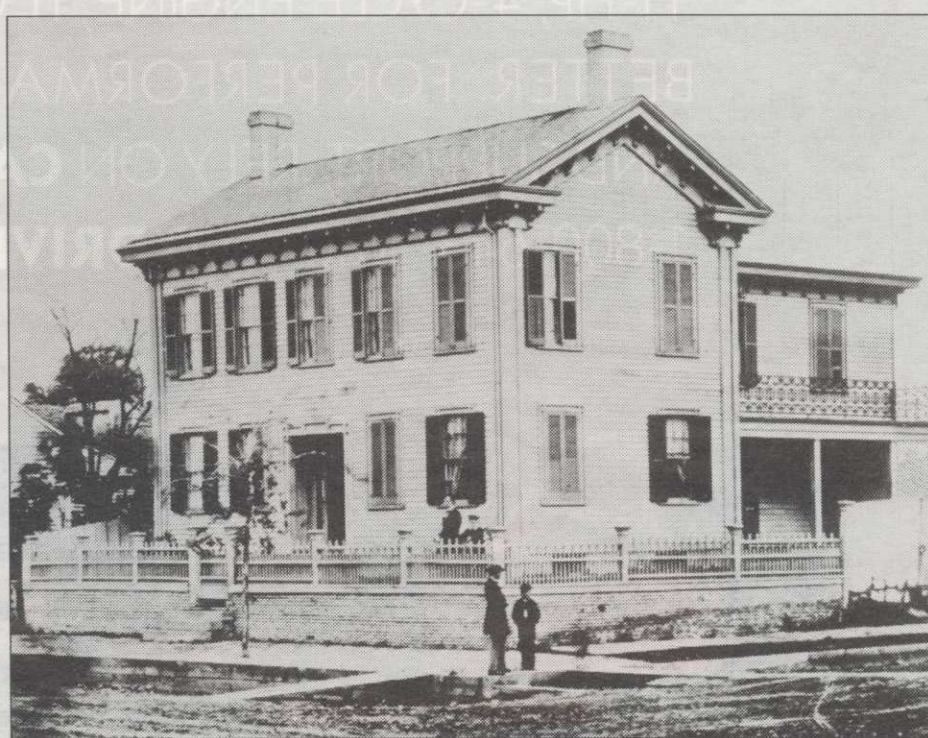
I agree with the architects you quoted that, often, club committees are too "gung-ho" to make changes to their courses. But many young architects have just as much trouble restraining themselves in suggesting "improvements," when there is a committee full of eager members willing to tear up as much as the architect recommends. For those struggling to find work on their own, the temptation is even greater to fix things that aren't really broken.

A lot of these vintage courses don't really need face-lifts at all — or at least nothing more than advice on how to re-edge their bunkers and return greens to their original size. They're only considering more because the club across the street just rebuilt all its greens, or because they read about it in *Golf Course News*.

What some of them need is reassurance that their courses have stood the test of time quite admirably. But how many architects are willing to throw away a consulting fee to tell them that?

Not many — and that's why the renovation market is really booming. Every club should get a second opinion before opting for major surgery.

Tom Doak, president
Renaissance Golf Design, Inc.
Traverse City, Mich.



OLD ABE'S NEW HOUSE

Word has been received here regarding the historic exploits of Joe and Pat Gibbs, owners and developers of the Chocoley Downs Golf Course and Residential Community in Marquette, Mich., on the Upper Peninsula. Mr. Gibbs, a longtime antique collector and history buff, has decided to build an exact replica of Abraham Lincoln's Springfield, Ill. home on the golf course. Joe even went to the trouble of securing the building's original plans, drawn up in 1838. "The folks at the National Park Service said it's the first time anyone has ever requested the plans," he explained. In addition to the Lincoln home, Mr. Gibbs is adding a carriage house connected to the main structure by — you guessed it — the Lincoln Tunnel. Chocoley Downs is a 36-hole Jerry Matthews design in the making, with nine holes complete and nine more nearly on line. According to Mr. Gibbs, a full third of the course can be viewed from Old Abe's new house.

GOLF COURSE NEWS

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Worried about avoiding costly permitting delays? Know thy site

By L.K. HAWKINS

The regulatory review and approval process for new golf course development projects poses one of the greatest risks to project success and financial outcome. There are numerous examples of golf development projects that failed because of convoluted planning, permitting- and approval-process difficulties that drained financial resources and, ultimately, cast doubt on viability of the project.

Wide differences in the time required for project approvals and permits can be seen. While each state and local jurisdiction can vary greatly in the permitting and political approval process, there are examples of golf development projects under the same regulatory jurisdictions that varied in approval times as much as three to four years.

The time involved in gaining approvals for construction is a direct function of understanding the site, the regulatory process and managing the approval program.

In most cases, there are very common reasons for permitting difficulties. The most obvious of these is a lack of understanding regarding the site's limitations, for either environmental or practical construction reasons.

Another equally common problem has been the lack of understanding and management of the approval process. It is not uncommon to see projects with completed site plans and golf course grading plans submitted for review, only to find — after many months of effort — there were significant environmental limitations on the site that were not identified or considered in the plans.

Once involved in the permitting process, the developer often finds he is in a position of reacting to regulatory or political issues, concessions and unexpected requirements rather than managing a well planned and anticipated approval process. Other issues such as water resources, water quality or other environmental concerns surface late in the approval process and become political "hot buttons". Obviously, in this situation, the effort and resources expended in planning have been wasted and the work has to be redone. The project often becomes a costly rescue effort that might not survive unless there are sufficient financial resources to meet the task.

Developers often invest in financial feasibility studies to test the viability of their golf market, but frequently neglect to invest in a proper site assessment to determine if the site can realistically support the planned golf course or real estate development. Further, a lack of properly understood permit and approval requirements, as



L.K. Hawkins

well as management of the process, increases the risks associated with the project because construction approval times become unpredictable or uncertain.

Because of the significant risks in obtaining timely approvals for new projects, the "due diligence" process must extend beyond financial feasibility and real

estate concerns. A proper site assessment conducted by qualified environmental scientists and the course architect should be at the top of the "risk management" list.

Most regulatory review authorities will require an environmental assessment of the site, in some form, before they will review the project for approval. While this assessment as a condition of project review may surface at some time in the approval process, it

does not provide the developer with the timely information needed to evaluate the feasibility of the site for his planned project. The developer must take the initiative to properly understand the development site in order to manage his financial risks.

The site assessment should simply identify any and all environmental areas or natural features regulated at both federal and local jurisdictional levels, i.e. any areas that have potential for limiting land uses. These might include, but

Continued on page 44

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CIRCLE #108

L.K. Hawkins is president of Geoscience, Inc. of Gainesville, Fla., and principal of Golf Design Studios.



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...of political issues, concessions and unexpected requirements rather than managing a well planned and anticipated approval process. Other issues such as water resources, water quality or other environmental concerns surface late in the approval process and become political "hot buttons." Obviously, in this situation, the effort and resources expended in choosing have been wasted and the work has to be redone. The worst often becomes a costly rework effort that might not arrive unless there are sufficient financial resources to meet the task.

J.R. Hamilton is president of Jacobsen Inc. of Galesville, Iowa, a division of JCB Inc.

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T-O-121

BRIEFS



MID-AM AWARDS CASH

WAUCONDA, Ill. — Four colleges and universities received cash awards for participating in a career fair at the Mid-Am Trade Show, one of the nation's leading horticultural expositions. The College of DuPage received \$600 for highest attendance with 25 students. The University of Illinois was awarded \$450 for second best attendance. Joliet Junior College and Iowa State University each got \$225 for third and fourth best attendance. A total of 153 students from 15 schools met with representatives from 76 companies.

ENVIROTRON GETS \$35,000

HOMOSSA SPRINGS, Fla. — The third annual Envirotron Golf Classic at World Woods Golf Resort raised \$35,000 for the University of Florida's Envirotron Research Laboratory.



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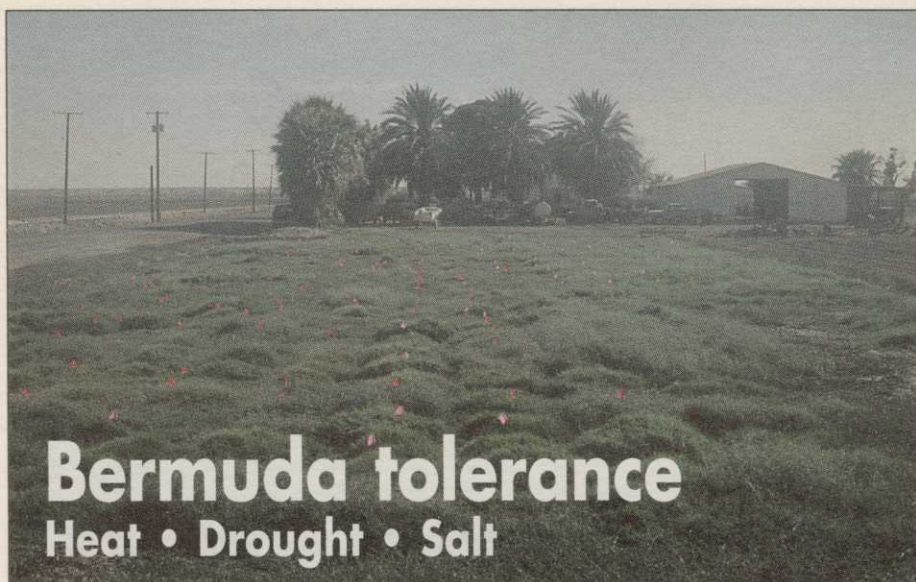
includes a greenhouse, four climate-controlled glass houses, two walk-in growth chambers, labs, study areas, classrooms and offices. Scientists there study turfgrass systems from root to blade and issues like temperature modification, noise abatement, pollution and water purification, and general turfgrass culture.

GCSAA CERTIFIES FIVE

LAWRENCE, Kan. — Kicking off its Environmental Management Program, the Golf Course Superintendents Association of America has cited Certified Golf Course Superintendents David R. Davies, Matthew W. Henry, Keith A. Ihms, Jim B. Key and Evonne K. Sandras. Key, of Pointe and Hilton Resorts in Phoenix, Ariz., completed course work for certificates in the Water Quality, Integrated Plant Management (IPM) and Underground Storage Tanks specialties. IPM certificates were awarded to Davies of Palo Alto (Calif.) Municipal Golf Course; Henry of Dixon (Ill.) Country Club; Ihms of Bent Tree Country Club in Dallas; and Sandas of C.W. Ditto Golf Course in Arlington, Tex.

LATHAM JOINS JACKLINGOLF

James M. Latham, who retired this year as a regional director of the U.S. Golf Association Green Section, has joined JacklinGolf as technical agronomist, working on projects worldwide. A graduate of Texas A&M with a master's degree in agronomy, Latham worked 14 years for the USGA after 24 years with the Milwaukee Division of Milwaukee Sewerage. He will work with another former USGA agronomist, Jim Connolly, Jacklin's senior technical agronomist.


Bermuda tolerance
Heat • Drought • Salt

Breeder's advance on cold, seed challenges

By MARK LESLIE

As dominant a turf as Bermudagrass is on golf courses in the South, plant breeders would like to improve certain characteristics and introduce it further north. Fulfillment of their quest appears imminent.

"We're there," said Farmers Market-ing Corp. (FMC) plant breeder Jeff Klingenberg, Arden Baltensburger's understudy. "We have a series by hybrids under the Princess brand that has the quality of a Tifway."

"We're looking to release one or more varieties within the next year," said Dr. Charlie Taliaferro, a pre-eminent scientist from Oklahoma State University.

Plant breeders have made great advances in meeting their two key challenges: developing seed-propagated Bermudagrasses and vegetative types that are cold-tolerant.

"A great deal of breeding work is being done by private seed companies, and they already have succeeded in putting products on the market," said Taliaferro, whose vegetatively propa-

gated Midlawn and Midfield have been at the top of the national trials.

"Our emphasis has been on development of seeded varieties that have cold tolerance in addition to reasonable turf quality. And in some of the tests in Northern locations, OKS 91-11 certainly survived, persisted and demonstrated cold tolerance."

Saying that the turf quality of the cold-hardy seeded Bermudagrasses is not yet as good as that of the best vegetatively propagated types, Taliaferro explained: "Breeding of seed-produced Bermudagrasses is relatively young. It's been in process only about 10 years, so quite remarkable progress has been made by both public and private sectors."

"We're doing something instead of nothing now. For years, nothing was being done [in seeded Bermudagrass research]," said Ronnie Stapp, senior vice president of Pennington Seed.

Indeed, Pennington has just introduced Yuma. A year ago Seed

Continued on page 24



OFF THE RECORD

Insecticides difficult to rub off turfgrass

By MIKE KENNA

Do pesticides come off on your shoes or clothing when they come in contact with the turf on a golf course? This is the question researchers at the University of Florida and University of Massachusetts addressed in projects sponsored by the U.S. Golf Association's Environmental Research Program. Preliminary results indicate that very little rubs off the turf.

The amount of pesticide which can be rubbed off the turf is referred to by scientists as a dislodgeable residue. At the Ft. Lauderdale Research and Education Center, chlorpyrifos (Dursban 2E) was applied at the label rate of 0.75 ounces per 1,000 square feet to a Tifgreen Bermudagrass green around 11 a.m. Immediately after the application, small four-inch squares of cotton cloth were pressed onto the treated turf with a pressure of 1.5 pounds per square inch. A second sample was taken in the same manner following a light

Continued on page 19

Research on PGRs and algae urged

By MARK LESLIE

GRiffin, Ga. — Saying that golf course superintendents trying to prevent algae on their greens actually may be increasing it, a plant pathologist here believes the summertime effect of plant growth regulators (PGRs) should be studied.

Dr. Lee Burpee of the University of Georgia, whose research plate is full, called on someone in the scientific community to investigate the PGR effect "a little more closely."

Burpee, who has worked on bentgrasses with triazole-based fungicides, said triazoles also are active ingredients in PGRs — and therein lies the rub.

"PGRs can increase root development but decrease foliar elongation," he said. "The detrimental effect is that the canopy of the bentgrass becomes more open and allows light to the soil surface, and you get a tremendous growth in algae. That's what we're concerned about, because when algae comes

Continued on page 23

Pinehurst first in on Safe Harbor

PINEHURST, N.C. — Pinehurst Resort and Country Club has helped Secretary of the Interior Bruce Babbitt kick off a first-of-its-kind conservation plan to help endangered red-cockaded woodpeckers find safe homes on private lands.

"This proposal uses the flexibility of the current Endangered Species Act to introduce a new conserva-



Pinehurst's Brad Kocher

tion concept that we call Safe Harbor," Babbitt said. "It offers private landowners an incentive to be good stewards of their land and provide habitat for endangered and threatened species. In exchange they get an ironclad guarantee that they will not be subject to restrictions later on if they succeed in attracting endangered species to their land."

Joined at the announcement by Pinehurst superintendent Brad Kocher and Environmental Defense Fund Chairman Michael Bean, Babbitt said Safe Harbor serves as a model for new ways to

work with private landowners to resolve concerns about endangered species.

The plan "removes the disincentives that currently prevent most landowners from carrying out actions that could benefit the woodpecker," Bean said.

"Pinehurst is excited to be the first private landowner to sign on to this... plan," Kocher said. "We knew the golfers like our

courses but we were happy to learn that woodpeckers find them a good substitute for their disappearing natural habitat."

Pinehurst will work with the U.S. Fish and Wildlife Service to enhance the woodpeckers' habitat.

Officially known as the North Carolina Sandhills Habitat Conservation Plan (HCP), it differs from other habitat conservation plans because it is designed to encourage positive habitat improvements, in advance of any specific project that could adversely affect an endangered spe-

Continued on page 17

Center Valley's Ron Garrison aggressive in IPM battle plan

CENTER VALLEY, Pa. — Superintendent Ron Garrison has a mission: To set the standard for public golf courses in the northern Philadelphia suburbs.

Outwardly, the bentgrass greens, tees and fairways, impeccable grooming and creative waterscaping give The Center Valley Club the feel of a private course. Behind the scenes lies an aggressive Integrated Pest Management (IPM) program that would make many elite clubs green with envy.

"Most other public and resort courses have a bluegrass/ryegrass fairway turfgrass mixture, while all the private clubs in the area have bentgrass fairways," Garrison noted. "We don't see private clubs as direct competitors. We're just trying to be the best public course we can be."

The Geoffrey Cornish-designed Center Valley Club first opened for play in 1992. Two separate design features characterize the course: a links-type front nine and a contemporary inland back nine. Nearly 10 acres of restored natural wetlands come into play on 14 of the 18 holes.

In three years, play has grown to an average of more than 30,000 rounds per season. Though Garrison welcomes the early success of the course, it did not come without problems.

"The increased activity adds a lot of stress to our young greens," Garrison explained. "Stress on the turf opens you up to any number of disease, weed and other turf quality problems."

In addition to stress from heavy play, humidity tends to be high because of the wetlands around the course. To control these problems, Garrison uses an aggressive IPM program that



The lush bentgrass greens, tees and fairways, impeccable grooming and creative waterscaping give The Center Valley Club in Pennsylvania the feel of an upscale private course. Superintendent Ron Garrison (right) says, "We're just trying to be the best public course we can be."

focuses first on the soil, then on the plant using a combination of all-natural fertilizers, biostimulants, synthetic pesticides and cultural practices.

"The soil feeds the plant. If the soil is healthy, it helps the plant be healthy, too," he said. "Primarily, I use a fertilizer from Earthworks with a couple of their other solubles, including a product called Kick, distributed by Earthworks. Then there's a nitrogen stabilizer, N-hance. I use another organic insoluble by Potent-Sea, which is sea kelp extracts."

"I feel strongly that once you improve the quality of your soil, you increase the natural vigor and quality of the turf. Not only will this save you money on fungicides and fertilizers, but water applications and mowing schedules can

be modified to save time and expense."

Garrison began incorporating organics into his program to improve turf quality and lower expenses. After just one season of using organic fertilizers, he said he's seen improvements.

Garrison runs soil tests every month. He and his crew sample three greens and two fairways, using the results to guide fertilization and pest management decisions.

Garrison, a Penn State graduate, primarily uses organic fertilizers, hitting the greens heavier in the spring and fall with a 3-1-2 ratio of all-natural



fertilizer. He "spoon feeds" greens through the most stressful times, applying one-tenth to two-tenths of a pound of nitrogen per week.

"With these organics, combined with my other practices, I feel we'll eventually be able to apply less fertilizer," he explained.

However, he continues to use synthetic chemicals as part of his turf management program. Two registered technicians help him oversee and perform chemical applications.

"We use very little insecticide. To this point, we've been very fortunate by letting Mother Nature take care of the problem unless severe infestations occur," Garrison said.

To control weeds, such as clover and dandelion, the superintendent relies on spot treatments of post emergence contact herbicides. Though insects, weeds and diseases all can be problems, disease management consumes more than half of Garrison's time from mid-May through mid-September.

His largest headaches come from dollar spot and brown patch, though pythium can also be a problem.

Garrison uses a preventive fungicide program for dollar spot and brown patch over the entire course — and for pythium on his greens. He spot sprays a contact fungicide for pythium outbreaks on tees and fairways only when needed. To control resistance, he always uses a three-way tank mix. To add an "element of surprise," he occasionally changes fungicides in the mix.

Garrison takes risk. He didn't think twice, for example, when his distributor rep approached him to test an experimental fungicide. Last summer, he evaluated Eagle[®] fungicide from Rohm and Haas.

"We tested Eagle on our 12th fairway for dollar spot control," Garrison said. "We had a little over 20,000 square feet of test area that stayed clean throughout the whole season."

Garrison wanted to put the product to the ultimate test, so he used Eagle alone on this fairway the entire summer.

"We have nearly 40 acres of bentgrass fairways. It takes a good eight hours and two of my employees to spray them, so it is important to me that products work on at least a 21-day schedule," he emphasized. "Eagle worked for a good month after the initial application."

At The Center Valley Club, they use a Buckner Cops-4 irrigation system, an automatic, double-row, below-ground. In the past, Garrison preferred light but frequent waterings. He now feels he wasn't getting water where he actually needed it.

This season, Garrison plans to switch to less frequent, deep waterings, supplemented by hand watering throughout the course. "It will mean sacrificing the hours of labor, but I think we'll be better off," he said.

Also under consideration: adding fans to improve air movement in problem areas where diseases are the biggest concern.

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UMinnesota student wins Musser award

By TERRY BUCHEN

The Musser Foundation has announced the 1995 Award for Excellence to Paul G. Johnson, who was awarded \$6,000 towards pursuance of a Ph.D in horticulture from the University of Minnesota.

According to Frank Dobie, superintendent at Sharon (Ohio)



Paul G. Johnson

Golf Club and president of the foundation, "Professor Burton Musser was a turfgrass pioneer for four decades

at Penn State University. The foundation that bears his name is dedicated to promoting that same kind of pioneering individual. Supporting this new generation of turfgrass scientists is the wisest move that we can make."

"This kind of award indeed reminds me of the kind of support the turfgrass industry has for students like myself," said the 30-year-old Johnson. "No other industry group shows this kind of support in my mind. I also look forward to showing my appreciation by serving this great bunch of people in any way that I can."

"Mr. Dobie said it best when he described the turfgrass group as a 'family.' Currently, I am applying for positions at several universities and finishing up my Ph.D work, as well as some additional projects here at the University of Minnesota."

"My career goals begin, in the near term, by obtaining a post-doctoral position or assistant professorship, and continue to

research turfgrass breeding and genetics topics," Johnson continued. "Once in a faculty position, and part of a turfgrass management team, I look forward to continuing in research. Teaching would also be a key to my career. The interaction with students keeps me on my toes and down to earth, so to speak. Later on in my career I still wish to maintain at least some of the turfgrass breeding and teaching responsibilities, but would also consider administrative roles in

an academic department, university or professional society."

Johnson's doctoral thesis was on "Genetics & Physiology of Flowering on Selected Poa Annua." Under the tutelage of Dr. Donald White, Johnson's grade point average (GPA) was 3.70 cumulative for his master's and doctoral degrees.

Each year the Musser Foundation looks for the brightest, most promising turfgrass doctoral students throughout the world to award moral and financial support.

Seed Research honors superintendents

Jim Reinertson of Dedham (Mass.) Country and Polo Club has been awarded Seed Research of Oregon's (SRO) 1995 Golf Course Superintendent of the Year award, presented annually to the superintendent who best displays a stewardship for the environment by incorporating imaginative management techniques with innovative problem solving.

Seed Research President Mike Robinson presented the award to Reinertson and also honored Tom Cook with the SRO Research Excellence award. Aside from his duties at Dedham, Reinertson teaches turf students as a guest lecturer at the local community college and is dedicated to IPM, turfgrass variety testing and innovative cultural practices..

Cook was honored for his dedication to teaching and researching turfgrass culture at Oregon State University. He has been instrumental in teaching superintendents.

Pinehurst puts golf in forefront of Safe Harbor

Continued from page 15

cies. Others HCPs have been intended to offset or mitigate some adverse impact to endangered species that occurs as a result of a development already planned.

The red-cockaded woodpecker lives mainly in forests of longleaf pines in the Southeast, along the Gulf of Mexico and Oklahoma.

Twenty-one percent live on private lands.

Private landowners have been concerned that they would be subject to restrictions under the Endangered Species Act if woodpeckers took up residence on their property.

The new plan removes that concern.

More information is available from the Sandhills Red-cockaded Woodpecker Biologist, U.S. Fish and Wildlife Service, 225 N. Bennett St., Southern Pines, N.C. 28388.

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USGA Tour Agronomist Moraghan shares knowledge

SOUTHAMPTON, N.Y. — In preparation for the 1995 U.S. Open here at Shinnecock Hills Golf Club June 15-18, we caught up with Tim P. Moraghan of the United States Golf Association (USGA) for a Q&A session. Though he started as the USGA's championship agronomist, his role for all 13 national championships has been expanded with each passing year. Moraghan is 38 years old and holds a bachelor's degree in biology from Niagara University. To further his education, he attended the Stockbridge School of Agronomy at the University of Massachusetts and the University of Dallas, where he majored in personnel management. Prior to joining the Rules & Competitions Department headquartered at Golf House in Far Hills, N.J., Moraghan was a regional manager for American Golf Corp. in Florida; golf course superintendent/contractor at the Las Colinas Sports Club in Dallas; and associated with the Tournament Players Club at Sawgrass in Florida. Moraghan is a member of the Golf Course Superintendents Association of America; Texas, New Jersey and Florida golf course superintendent associations; and the American Society of Golf Course Architects. Terry Buchen, the Savvy Superintendent himself, caught up with Moraghan prior to this month's Open.

Savvy Super: What are your duties and responsibilities with Rules & Competitions?

Tim Moraghan: My primary responsibilities include: 1. golf course setup; 2. golf course preparation; 3. site selection; 4. input on architectural changes; 5. the Rules of Golf; and 6. all remaining on-site preparation.

All this work begins as soon as a contract is signed for our three Opens, two Amateurs and the remaining amateur competitions.

SS: How far in advance do you go to championship venues and how many follow-up visits do you usually accomplish?

TM: I begin my visits as soon as a contract has been signed. That can be anywhere from one to five years in advance of an event. The number of follow-up visits depends on the event and the needs of the club. For example, with the U.S. Open, I will make as many visits as necessary, even weekly, to prepare the golf course for the event.

SS: Has it helped your job being a former golf course superintendent?

TM: Yes. I have a better understanding of how difficult it is to bring all aspects of the golf course into prime condition for a major event. No one knows how hard it is unless you have been through it.... I feel that my relationships with the golf course superintendents of each club are excellent. The golf course superintendent is the VIP of the event. Without their work, the golf course and the event would not be successful.

SS: Tell us about your champi-

onship specifications and do they differ at each championship site?

TM: The basic guidelines for course preparation are the same for all 13 national championships. The only difference will be the length of the golf course, the height of the primary rough, the width of the landing zones in the fairways, and the speed and firmness of the putting greens.

SS: What are the top five issues and concerns from the players during the U.S. Open Championship and how are they

typically handled by you and the Championship Committee?

TM: There are so many items to cover during the week of the event and there are so many volunteers and dedicated staff to handle these concerns. But in my opinion, the top five concerns from the players are as follows:

1. Consistency in playing conditions from the first tee to the 18th green.
2. Pace of play.
3. Access to the club, an example being a player missing a

starting time due to difficulty in getting to the golf course.

4. Accommodations for the players and their families.

5. Player services such as child care are becoming increasingly important.

SS: Tell us about the bunker maintenance philosophy. Have there been any changes?

TM: There has not been any change of philosophy for bunker maintenance. According to the Rules of Golf, a bunker is a hazard. Players are fortunate

SAVVY SUPERINTENDENT

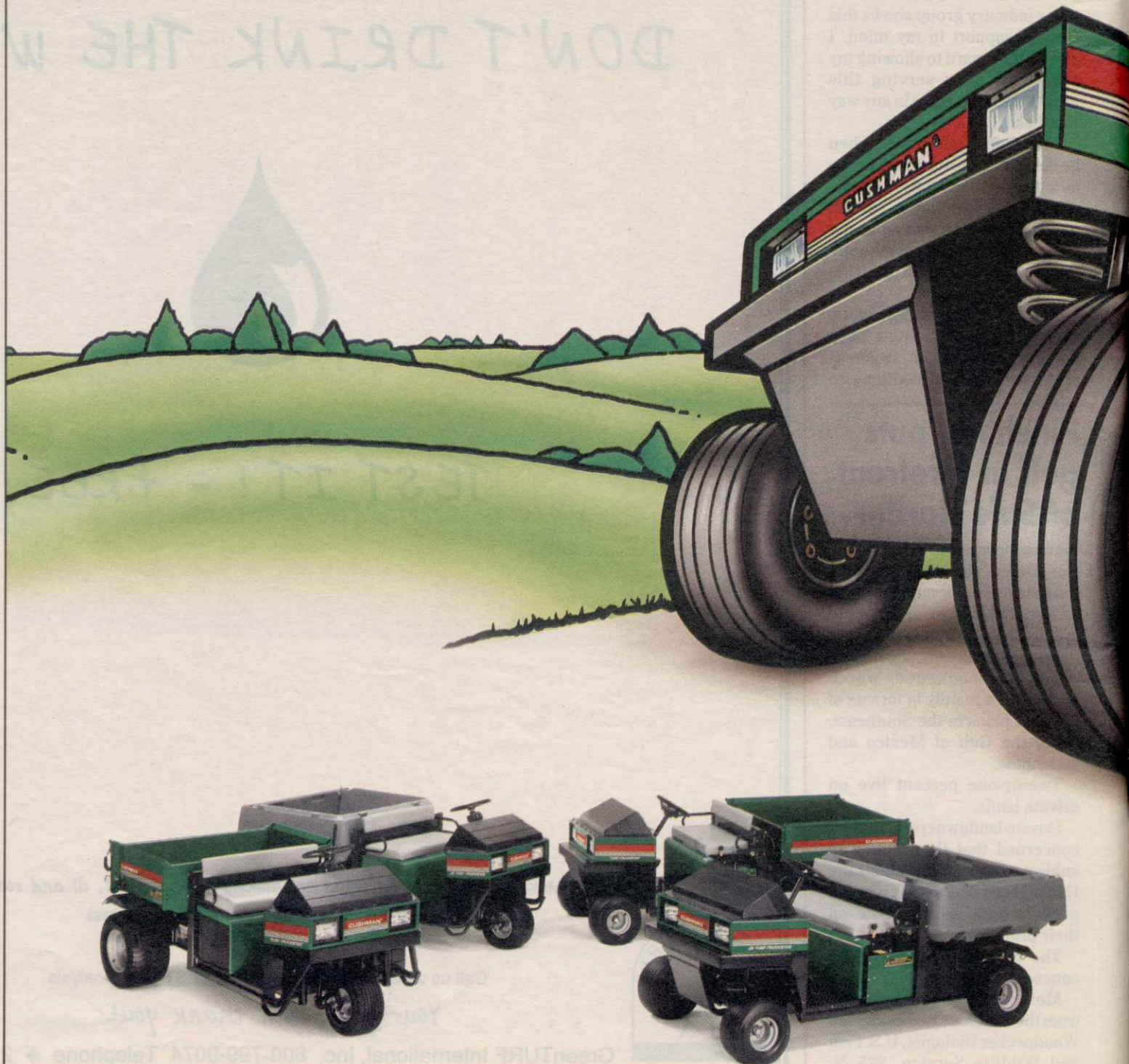


that they are raked for them during the week of the event.

SS: What is the easiest part of your job?

Continued on next page

Keep On



Insecticides don't rub off

Continued from page 15

irrigation of 0.2 inches of water. The third sample was taken five hours later at the end of the day. The next day, a fourth sample was taken.

As one would expect, most of the pesticide was dislodged from the turf onto cotton cloth immediately after the application was made. Think of a small four-inch square of treated turf with which your knee may come in contact. Immediately after the pesticide

application, 0.26 percent of the chlorpyrifos would come off onto cotton cloth. This amount is equal to 1.5 micro grams of pesticide. After the light irrigation following the application, approximately 0.04 percent or 0.24 micro grams was dislodged. The amount dislodged at the end of the day was 0.02 percent or 0.11 micro grams, and 24 hours later, no chlorpyrifos was detected at all.

It should be noted that the amount of pesticide dislodged is a very, very small amount. For example, the chlorpyrifos was applied at the label rate of 0.75 ounces of active ingredient per

1000 square feet or 0.057 grams of active ingredient per square meter, which is the same as 57,000 micro grams per square meter. The maximum amount dislodged immediately after application was 1.5 micro grams or 0.26 percent of the total amount applied. To put 1.5 micro grams into perspective, consider that a small paper packet of Sweet'n Low weighs about one gram or the equivalent of one million (1,000,000) micro grams. How small is a buck and a half compared to a million dollars?

At the University of Massachusetts in Amherst, dislodgeable residues were determined

by vigorously wiping a one square foot area of pesticide treated turf with a piece of moist cheese-cloth to remove pesticide residues. The samples were taken 15 minutes, three hours, and eight hours after application on the first day; and at noon on all other sampling days during the studies.

The largest amount of dislodgeable residue for MCPP was measured 15 minutes after application and amounted to less than 1 percent of the total amount applied. At three hours after application, when the leaf was dry, residues had dissipated to only 0.14

percent of the total application.

Fifteen minutes after application, dislodgeable residue found for triadimefon (Bayleton) was 2.4 percent of the total amount of applied product. Residue levels decreased to about 1 percent at three hours after application. As with MCPP, dislodgeable residues were substantially reduced once the spray solution had dried.

Irrigation following the isazofos (Triumph) application reduced dislodgeable residues from 1.8 percent of the application when measured 15 minutes after application to almost none (0.01 percent) three hours later. Immediate post-application irrigation of trichlorfon (Proxol) provided a rapid decline in dislodgeable residues similar to that observed with isazofos. Trichlorfon applied without irrigation resulted in dislodgeable residue levels four times higher than for the same pesticide treatment receiving a light irrigation after application.

Be sure to water-in pesticides immediately after application if the label says to do so. Light applications of water move the pesticide deeper into the turf where it can bind to thatch and soil. Allowing the turf to dry thoroughly before golfers use the area will further reduce the amount of pesticide that will rub off the leaves.

Dr. Michael Kenna is director of Green Section research for the United States Golf Association. He works out of Stillwater, Okla.

CORRECTION

The headline for the May *Off the Record* column erroneously stated fungicides were found in runoff when applied before a heavy rain. The study was performed on three herbicides — 2,4-D, mecoprop and dicamba.

Moraghan

Continued from previous page

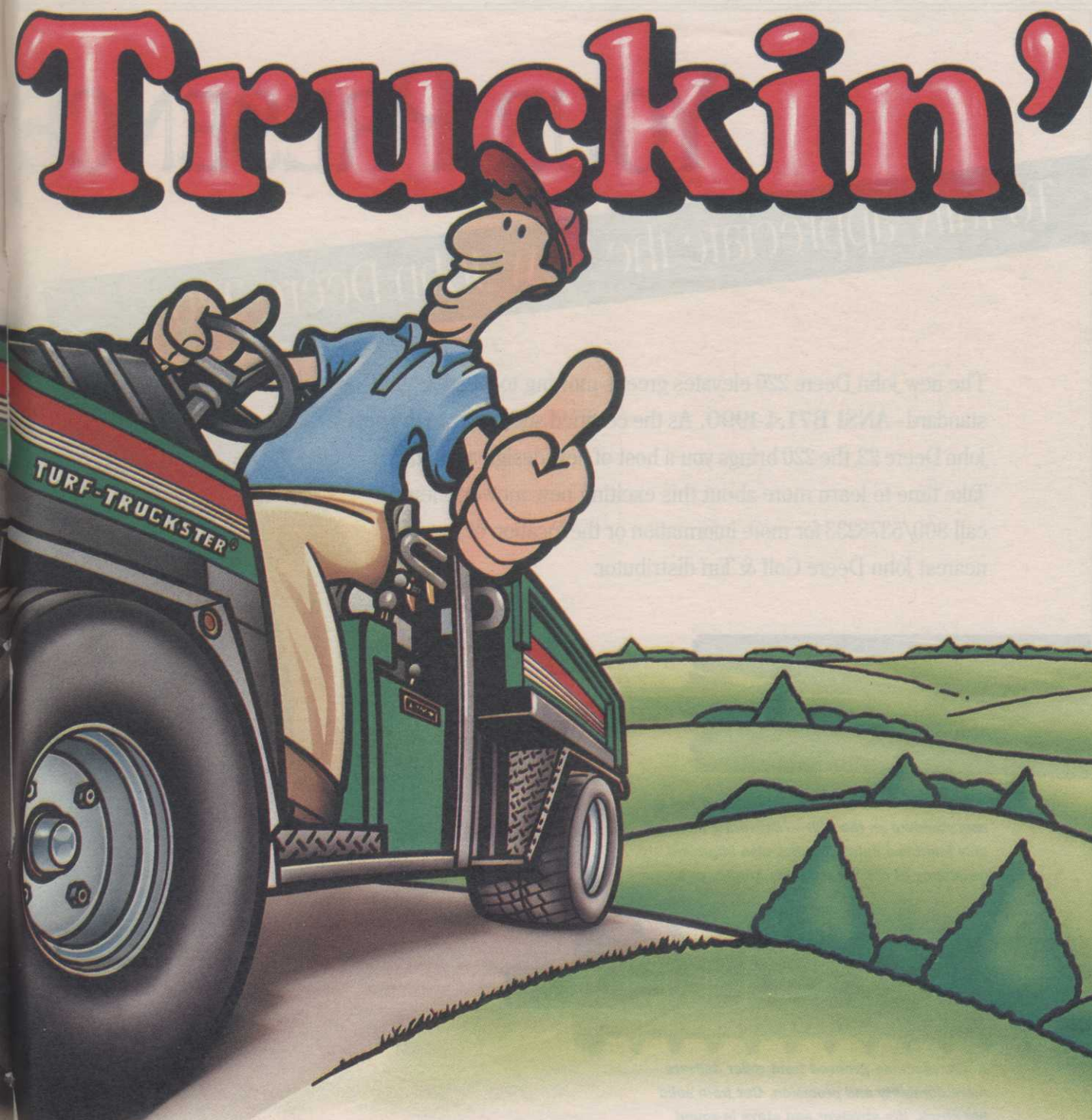
TM: Working with golf course superintendents such as Bill Spence from The Country Club, Patty Knaggs from Hazeltine National Golf Club, Mark Kuhns from Oakmont Country Club and Paul Latshaw from Congressional Country Club. They are individuals who are so meticulous and professional that their job is done well before the event arrives and it makes it very easy on me.

SS: How involved do you get with David Eger, senior director, Rules & Competition, regarding golf course setup during any of the championships?

TM: I work very closely with David Eger in all areas of preparation for each event. I have David's proxy on all golf course-related decisions.

SS: Tell us a funny story about something that happened during any one of the USGA Championships.

TM: Without going into too much detail, it involved an assistant golf course superintendent, several volunteers and a television tower.



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Mountains

GEESE TARGETED

Because of warm winter months the annual Goose Roundup, planned for June 26-28, is expected to draw more participants.

Coordinated by retired superintendent Dick Kingman and the Colorado Division of Wildlife, the roundup last year picked up 693 birds at 10 golf courses.

Kansas is the only state which has agreed to take the geese this year, even though a firm commitment reportedly has not been made. Properties signing up for pickup must have at least 25 geese. Further information is available from Kingman at 303-470-8237, or Kathi Green of the Division of Wildlife at 303-291-7367.

North Central

IOWA HONORS TWEDT

Gary Twedt, CGCS, has been selected the 1994 18-Hole Golf Course Superintendent of the Year by the Iowa Golf Association. He was recognized for this achievement at the annual Iowa Golf Hall of Fame Awards Luncheon on March 27. Twedt is a golf course superintendent for Ottumwa Country Club in Ottumwa.

Twedt was named Golf Course Superintendent of the Year in 1990 by the Iowa Golf Course Superintendents Association and was president of the IGCSA in 1992.

West

SOUTHERN CAL ELECTS JOHN POLLOK

John M. Pollok, course and grounds superintendent of El Caballero Country Club in Tarzana, has been elected president of the Golf Course Superintendents Association of Southern California, an organization representing 500 golf clubs from Los Angeles to San Diego, including Orange County, Riverside County and Santa Barbara.



John Pollok

Southeast

TURF MEANS \$7.4B TO FLORIDA

GAINESVILLE, Fla. — From sod farms and wholesale distributors, to golf courses and residential backyards, turfgrass is a \$7.4 billion industry in Florida, according to a recent study by the Florida Turf-grass Association (FTGA).

The results of the study —

which took nearly two years and covered sectors like sod farms, turf product management, wholesale and retail distributors, turfgrass service vendors, commercial institutions, golf courses and residential households — appear to point up what the FTGA has long suspected: that the turfgrass industry has a tremendous impact on Florida's economy.

Golf courses accounted for \$2.6 billion of the total, or 36 percent, while single-family homes and service vendors accounted for \$1.5 billion each.

The study also found that cash

spent on production, distribution and use of turfgrass products and services in Florida totaled \$7.25 billion in 1991-92.

Northeast

CORNELL RESEARCH TO BE UNVEILED

ITHACA, N.Y. — The Cornell University Turfgrass Field Day, featuring talks by Drs. Norm Hummel, Eric Nelson and Joe Neal, will be held at the Cornell turfgrass plots on Bluegrass Lane here June 15.

Hummel will present research

findings from his nitrogen source study, the greens top dressing study and variety trials. Nelson will discuss research on biocontrol of turfgrass diseases and Neal will show research trials on weed control with herbicides and turfgrass management effects on weed encroachment.

Drs. Michael Villani and Martin Petrovic will also present their research trials on insect-control strategies and the fate of fertilizers and pesticides.

More information is available from Angelica Hammer at Cornell, telephone 607-255-1789.

DIAGNOSTICS TOUR SCHEDULED

COBLESKILL, N.Y. — A diagnostic walking tour concentrating on trees and shrubs will be conducted at the SUNY Cobleskill campus on June 27. From 1 to 7:30 p.m., the tour will be led by Professors Jim Bates and Chris Cash, giving an intensive hands-on training session.

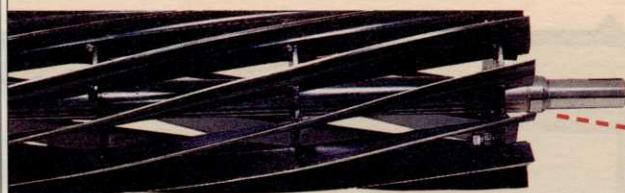
An evening session will discuss setting up an Integrated Pest Management program.

Pesticide recertification credits are available. More information is available from the New York State Turfgrass Association at 800-873-8873.

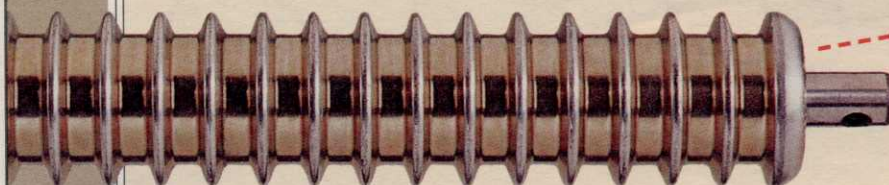
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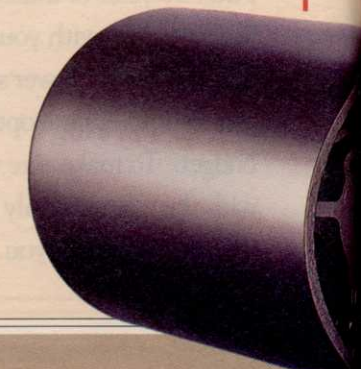
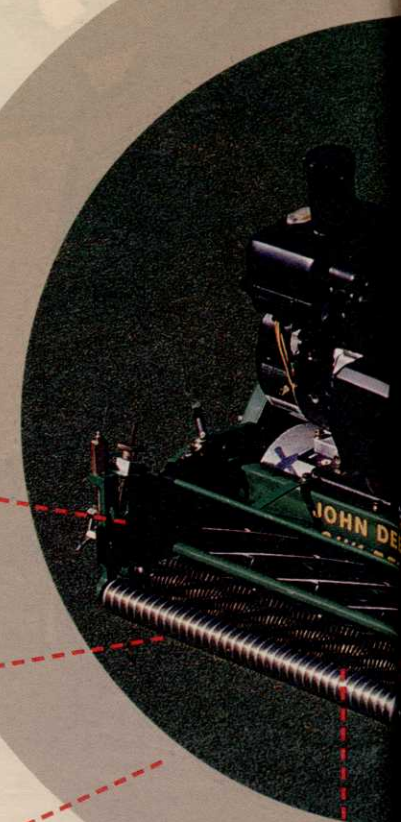
A John Deere-manufactured 11-bladed reel is now standard on the 220 — delivering not only improved durability, but also improved frequency of clip for a better quality cut.



A new machine-grooved front roller delivers more durability and precision. Cut from solid bar stock, it's stronger and stays in-round better for a more consistent quality of cut.



Redesigned controls make the 220 easier to operate. The engine on/off switch is now located near the handlebars for easier access.



Air power takes on Jordanesque task, replacing H₂O

By PETER BLAIS

INDIAN WELLS, Calif. — Using air rather than water to clean turf equipment is an environmentally friendly idea that has caught on in the Palm Springs area and will likely spread elsewhere, according to U.S. Golf Association Green Section agronomist Paul Vermeulen.

Superintendent Doug Anderson and Maintenance Supervisor Luciano "Chito" Velasquez of The Vintage Club

were among the first to see the need for an alternative to watering down mowers and golf carts.

The wet grass clippings not only offended the olfactories of golfers, but the runoff also provided nutrients for plants that were choking a nearby stream, Vermeulen said. Mechanically spraying cold water on machinery damaged greased bearings and corroded engines.

"Replacing bearings is one

of those pesky jobs that takes a lot of time," Vermeulen said.

Working together, Anderson and Velasquez hit on the idea of replacing the water hoses in their wash area with eight dry-cleaning stations equipped with air hoses set at 125 pounds pressure per square inch. A blast of air removes most of the clippings and loose soil from equipment, even under engine shrouds where spraying water can damage the machinery, Vermeulen said.

Having eight stations allows eight employees to work at once, reducing the backup and inefficiency associated with a single water-wash station. Dry clippings can be swept up, shoveled into trash cans and hauled to a special-waste recycling area, Vermeulen said.

"Environmentally, it's much friendlier than a traditional water-wash station," the USGA agronomist said. "You catch the clippings before they wash down the drain. And you're not



ON THE GREEN

mixing water and oil, so there's no need to send rinsate through a separator."

Dry cleaning doesn't totally eliminate the need for water. After being blown dry, each machine is rinsed, then parked in the maintenance building to dry. Machinery must also be steam-cleaned on a regular schedule. Velasquez routinely steam cleans mowers every three weeks.

"Chito is the best-organized equipment manager I've ever been around in my career," Vermeulen said.

To ensure worker safety, goggles must be worn at all times in the cleaning area, Vermeulen said. A small hole drilled through the tip of each brass nozzle relieves the pressure in the event workers hold the hose too close to their bodies, he added. The hoses are also mounted on automatic-recoil reels to protect the nozzles from being run over as vehicles leave the cleaning area, Vermeulen explained.

The only significant costs are the air compressor and brass nozzles, he said.

"This system is new to me and to most of the country, I believe," said Vermeulen, who recently transferred from the Green Section's Western Region to its Mid-Continent office. "It started in the Palm Springs area. The courses are close together and a number of them are now using air hoses. A good idea spreads quickly there."

PEST HANDBOOK OFFERED

The University of Illinois Cooperative Extension Service is offering its free 1995 Illinois Urban Pest Management Handbook. Developed for golf course superintendents, nursery managers, park managers and others, the handbook covers insects, weeds and diseases, and changes in the laws and regulations regarding pesticide use in Illinois. It is available by calling 217-333-2007.

RUTGERS HONORING ALUMNI

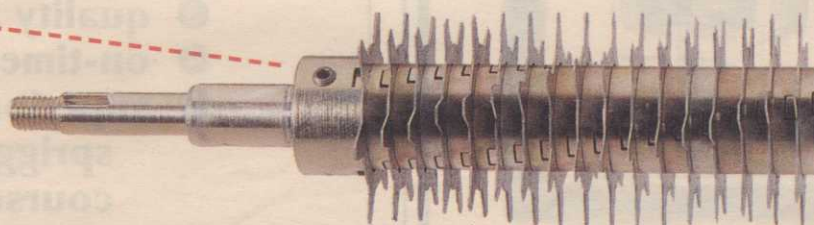
EAST BRUNSWICK, N.J. — The 6th annual Rutgers Professional Golf Turf Management School and Alumni Awards Banquet will be held at the Ramada Inn here, Nov. 4. The evening will include certificate awards and scholarship presentations, guest speakers and an alumni reunion. A cocktail hour begins at 5 p.m. More information is available from Missy Marcianite at 908-932-9271.

IS REQUESTED *Required*



Standard operator-presence system and new loop-style handlebars add comfort and safety to the 220's design. A low-effort bail must be pushed forward to engage and mow; while releasing the bail immediately and automatically disengages the reel and traction drive for safety.

The 220's new Greens Tender Conditioner (GTC) features 75 blades to better stimulate vertical grass growth. Like the model 22, it's powered by an optional gear-drive assembly that mounts ahead of the reel.



A new, more powerful, Kawasaki engine powers the 220. Now, the combination of 3.7 net horsepower, overhead valves, and 4-cycle design translate into not only more power — but quieter operation, as well.

Aluminum traction rolls on the 220 are now smooth for less green disturbance, and have been widened to cover the entire length of the bed-knife. External differential drive still splits power to both traction rolls for superior tracking.



NOTHING RUNS LIKE A DEERE®





Indoor — and movable — pre-fab building an excellent idea

By TERRY BUCHEN

GALENA, Ohio — Impressed with the pre-fabricated pesticide storage buildings being marketed the last few years, we purchased one for our new golf course during construction.

We ordered it with spill containment for 150 gallons under the removable flooring; adjustable fiberglass shelving; an explosion-proof, glass-covered 150-watt light fixture; an automatic fire-protection sprinkler; a 24-hour-a-day exhaust fan; and appropriate safety signs inside and out.

Laws vary from state to state. Although it may change soon, in Ohio we are not yet required to have a separate pesticide



The pre-fabricated pesticide storage building at Double Eagle sits inside another structure.

storage building located a minimum distance from the maintenance building, or any building for that matter.

When we built an addition to our maintenance building, we made provisions to house the pre-fabricated pesticide storage building inside our maintenance building.

It had its own garage door, heating system, safety shower and safety eye-wash shower. Outside, we have provisions for the sprayer to be filled up with water immediately next to the pesticide storage area.

The main reason to have a building within a building was to keep a low

profile with the community, while still planning for the future when storage laws will probably change.

Once law requires that we have a separate structure a specified distance from the maintenance building, we will merely have to move the pre-fabricated building with a forklift. We can then run an electric line for the thermostatically controlled heater and a water line for the fire-protection sprinkler.

Also, we will move the safety shower, safety eye wash and hose bib to fill up the sprayer over to the new location. The 24-hour-a-day exhaust fan will have to have a self-opening and closing

Once law requires that we have a separate structure a specified distance from the maintenance building, we will merely have to move the pre-fabricated building with a forklift.

louver added as well.

Heavy landscaping and/or tall wooden fencing can keep this pre-fab building as inconspicuous as practical.

In our situation, we felt it was better to do it this way than to build a pesticide storage building separately. Once the pre-fab is moved away from the maintenance building, we can use the separate garage area for additional storage of maintenance equipment and supplies.

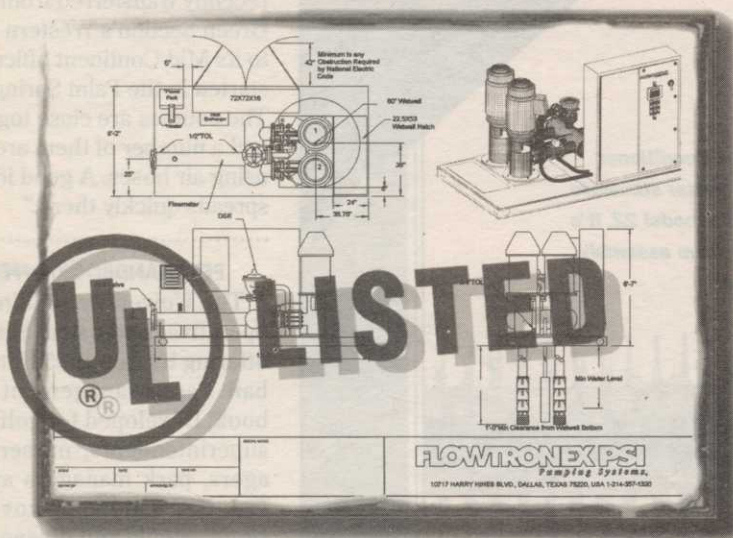
SHOP TALK IS FOR YOU

Superintendents, their grounds crews and mechanics spend a major portion of their lives in their maintenance buildings. Creating the most cost-effective, space-efficient and time-saving operation possible is a goal of many. To that end we will use this space to share ideas that are passed along to us. We welcome your contributions. Just write: ShopTalk editor, *Golf Course News*, P.O. Box 997, Yarmouth, Maine 04096; telephone 207-846-0600; or fax 207-846-2292.

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Earth First! & last

Continued from page 10

Let's take a further glimpse inside *EF!*'s house organ in this, its Eostar issue (the April-May edition being named for Eostar, the Saxon Goddess of Spring who "takes the form of a white rabbit. She brings the dawn. The sun rises at equinox, directly out of the east..." enough already!).

- Where else could Interior Secretary Bruce Babbitt be called "Babbling Bruce" and cited as hobnobbing with "Republican politicians, developers, polluters and compromising eco-yuppies"? This is the same Bruce Babbitt who, as chairman of the League of Conservation Voters (LCV), proclaimed in his introduction to the LCV's 1991 Environmental Scorecard of Congressional votes: "We must identify our enemies and drive them into oblivion."

- Where else could an "indigenous person" (that's Native American Indian for the neo-politically correct) excuse arson that destroyed 32 years of research at Michigan State University with the statement: "Sometimes we are forced to do things we do not like when we are warriors?"

- Where else can you order the book: *A Field Guide to Monkeywrenching*, whose cover is duplicated as the cover of this Eostar edition: a silhouette of two wrench-wielding people in the darkness of night walking toward a piece of machinery. Guess their intent?

- Among the T-shirts it promotes: "My Heroes Have Always Killed Cowboys" (emblazoned with a picture of four gun-toting indigenous persons) and "Factories don't burn down by themselves... They need help from you" (sporting a picture of a charred building).

- Among the bumperstickers it offers: "Resist Much, Obey Little" and "Developers Go Build

Professor urges triazole research

Continued from page 15

in we have problems with density of turf.

"People are trying to prevent algae and the PGR effect seems to actually increase algae. But it seems to be temperature-related. In the spring and fall these triazoles don't give a growth regulator effect."

Burpee's tests, using triazoles to control brown patch on creeping bentgrass, have been performed in June, July and August. Brown patch control requires one of the highest label rates as well.

He said he did not have evidence of growth regulator effects from all the triazoles, "but at least some. And it is very possible that not all the triazoles react equally severely. Some may give more potent PGR effect than others."

GOLF COURSE NEWS

in Hell."

Speaking out of one side of their mouths, *EF!*ers say they want to be a real — and respected — player in the field of ideologies. Yet, out of the other side of their mouths they espouse careless destruction of property.

You might think environmental organizations care for the Earth? "No way!" say *EF!*ers.

Speaking at the Land Air Water Conference in Eugene, Ore., *EF!* spokesman Jeffrey St. Clair said, "We've got some national environmental groups like The Wilderness Society and the Sierra Club that are doing a damn fine job" of destroying the envi-

ronmental movement.

Tell that to the scores of homeowners, landowners, developers and others whose plans they've held up for months, even years, in courts and community meeting rooms.

Calling the environmental movement neutered, without vision and void of common sense, St. Clair said groups like the Natural Resources Defense Council, Environmental Defense Fund and The Wilderness Society have been bought by corporate foundations who advocate "extremely conservative social agendas." E-gads! St. Clair said they even give across the spec-

trum — from "right-wing causes like the Billy Graham crusade, the Christian anti-communist crusade" [anyone ever heard of such a group?] to the Western Ancient Forest Campaign.

Shame!

Asking readers in an editorial if the *EF!* movement should work within the system for the strongest law possible or pursue avenues of resistance that are more overtly revolutionary, Craig Beneville says: "Perhaps we would be best off focusing less on law and more on making life hell for the eco-plunderers in the field?"

Overlooking the great strides

the EPA claims have been made over the last 25 years of Earth Days, Beneville contends that politicians care not about the environment when pitted against business or industry. Perhaps he has been living in Kiev?

Believe it or not, the Eugene, Ore.-based *EF!* has chapters from Alaska to Georgia. And there may be one in your backyard. (We're blessed with three in Maine.) So watch out.

As Seed Research of Oregon technical agronomist Skip Lynch said: "In the afterglow of the golf summit in Monterey just a few months in the past, I was saddened to read such hatred."

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In Bermudagrass, the future is here

Continued from page 15

Research of Oregon introduced Primavera. Jacklin Seed Co.'s Jackpot will be available for the first time in July. International Seed, Inc. (ISI) is releasing two new varieties this year — Mirage and Pyramid. And Medalist America's Sundevil 2 looms as another grass of choice. FMC is introducing Sultan this fall as well as its new, unnamed hybrid. All are seeded types that have good seed-yield, which is not the case with many cultivars.

"In Bermudagrass, we have to make just small gains to make huge advances over Arizona common [Bermudagrass]," said Craig Edminster, director of research at International Seed. "Ultimately, the goal is to get these seeded types so they will compete with vegetative types..."

"Clearly, seeded Bermudagrass already exists today that is comparable in quality to vegetative types, but it would be cost-prohibitive in the marketplace. It may be available in five years at a very competitive price."

Klingenberg said FMC's hybrid "could be used in greens, but it would be more of a low-input golf course because it is still a little coarser than from a dwarf Bermuda. And it is still going to require high maintenance because it is so thick that you will have thatch buildup, especially under high-fertility conditions. It's not a low-maintenance grass, but it will be lower than your Tifways. It's definitely for fairways, great for tees and good for greens collars and places like that."

"We are several years down the road before we can challenge the 'Tifs' on quality," said Stapp. "We're making progress every year on it," he added, admitting that "several years" to a researcher is like tomorrow to others.

Public and private plant breeders have stepped up their development efforts for better Bermudagrasses, according to Kevin Morris, national director of the U.S. Department of Agriculture's National Turfgrass Evaluation Program. "The warm-season grasses are of interest. Anything you can seed is of interest."

...

Meanwhile, superintendents across the mid-South and Southern tier of the nation await more cold-tolerant varieties. For too long they have feared walking onto their courses after a cold snap to find dead grass.

"The winter before last, courses lost Bermudagrass throughout the Tennessee Valley," said Lynch. "It was dead everywhere. The Sarah Lee Classic was played on dead grass at The Hermitage [Richmond, Va.] last spring. In July it still was not recovered. Also in southern Kentucky, southern and western Virginia up to the Chesapeake area. Missouri. Oklahoma."

"Anywhere in the transition zone, even southern Illinois, is a candidate for some of these Bermudagrasses."

"The biggest problem [to overcome] is winter-hardiness," said Morris. "People would like to use it farther north."

"We tested [a new, unnamed cultivar] as far north as Kentucky," said Doug Brede, research director at Jacklin Seed. "We're trying to engineer them more towards a Tifway 41-type of grass, which means we have to concentrate on texture and density. We've already achieved a darker green without the necessity of putting on more fertilizer. That will be put in production for the first time this summer and be on the mar-

USDA's National Bermudagrass Test Update: 1992-94

Name	AL1	AR1	AZ1	CA2	CA3	FL1	GA1	GA2	IL2	KS2	KY1	LA2	MD1	MO2	MO3	MS1	OK1	OK2	TX1	TX2	UB1	VA1	VA4	Mean
TDS-BM1	5.8	8.0	7.3	5.7	5.9	7.5	4.6	4.4	7.9	7.9	7.9	6.0	1.7	6.4	5.3	7.1	7.4	8.3	6.4	1.9	4.3	3.7	7.6	6.0
*Midlawn	5.7	7.3	6.1	5.2	5.5	5.3	4.4	2.7	6.5	8.5	8.2	5.9	7.7	5.4	4.9	5.7	7.0	7.0	6.5	1.6	6.3	5.8	6.0	5.9
*Midfield	5.7	6.9	6.1	5.4	5.5	5.8	3.8	2.9	6.5	8.4	8.1	5.0	7.3	5.9	5.3	5.9	6.9	6.7	6.7	1.4	6.1	5.9	6.1	5.8
*Midiron	5.7	7.2	5.9	5.4	5.6	6.8	4.1	3.0	6.7	8.0	8.1	5.4	7.0	5.6	4.4	5.9	6.5	6.8	6.6	1.6	5.2	5.2	6.8	5.8
*Tifgreen	5.8	8.3	7.2	5.5	5.7	6.8	4.4	4.2	7.9	7.7	7.3	6.5	1.7	5.8	5.2	7.0	7.0	8.3	6.6	1.4	2.7	2.5	7.5	5.8
*Tifway	5.8	7.6	7.1	5.4	6.0	7.7	5.5	3.4	8.0	8.8	7.3	6.2	1.3	2.7	2.9	7.6	7.0	8.0	6.9	2.3	4.9	2.3	7.3	5.7
*Mirage	5.8	5.8	5.9	5.0	5.0	5.5	4.4	3.8	3.7	7.3	8.8	5.7	6.3	5.2	4.0	4.9	5.9	6.2	6.3	1.2	5.1	4.3	5.7	5.3
*Turf 10	5.8	7.3	5.3	5.7	5.2	7.1	4.3	2.8	6.3	6.8	7.9	5.6	1.0	5.8	4.1	5.6	6.3	7.0	6.4	1.4	4.1	3.7	6.4	5.3
*OKS 91-1	5.9	6.5	6.7	5.5	5.2	5.4	4.0	3.6	4.4	8.0	8.0	5.3	7.0	4.4	3.4	4.7	5.9	5.8	6.1	1.0	5.6	3.5	5.4	5.3
STF-1	5.9	6.8	5.5	5.4	4.8	5.4	4.2	2.9	6.2	8.2	7.5	5.4	3.0	5.5	5.3	5.3	6.1	6.7	6.2	1.8	4.4	2.9	5.8	5.3
*J-27	5.6	5.7	6.0	5.2	4.8	5.1	4.3	3.3	3.5	7.8	8.2	4.9	6.0	5.0	4.0	4.8	5.2	5.5	6.1	1.3	5.5	3.9	5.5	5.1
*Guymon	5.7	5.9	5.9	5.2	4.9	5.1	4.4	3.2	3.3	7.6	8.0	5.3	6.0	4.9	3.2	4.9	6.0	5.8	6.1	1.1	4.9	3.9	5.2	5.1
*Jackpot	5.6	5.9	5.4	5.0	4.7	5.5	4.3	3.3	5.2	7.3	8.8	5.4	2.7	3.4	2.8	5.1	5.0	6.0	5.7	1.1	4.5	3.6	5.9	4.8
*Sundevil	5.8	5.4	5.3	4.6	4.7	4.6	4.2	3.3	3.6	7.1	7.8	5.2	4.7	3.8	3.3	4.8	4.4	5.3	5.9	1.0	4.1	2.5	5.7	4.7
*FMC5-91	5.6	5.8	4.9	4.7	4.7	5.4	4.5	3.5	4.5	7.5	6.6	5.5	3.0	2.1	1.6	4.9	5.3	6.2	5.9	1.1	5.1	2.0	5.5	4.6
*FMC 6-91	5.8	6.2	5.5	4.8	4.6	5.1	4.5	3.8	4.1	7.7	6.7	5.4	2.3	1.6	1.6	5.3	5.5	6.3	6.1	1.1	2.9	1.7	6.1	4.5
*OKS 91-1	5.7	5.3	4.7	4.3	4.5	4.7	4.3	3.5	3.4	7.0	7.1	5.3	3.3	2.8	2.9	4.9	5.1	5.7	6.0	1.1	2.1	2.1	5.7	4.4
Floradwarf	5.8	6.7	5.5	4.9	5.6	6.6	4.3	3.4	9.0	6.8	3.8	4.7	1.0	1.0	1.1	5.8	3.9	5.8	4.9	1.1	1.0	1.3	5.8	4.3
*FMC 2-90	5.6	5.5	4.8	4.9	4.5	5.0	4.4	3.8	3.1	7.3	6.6	5.3	2.0	1.4	1.0	4.9	4.9	5.8	6.0	1.0	3.4	2.5	5.7	4.3
*FMC 3-91	5.7	5.3	5.3	4.7	4.7	5.3	4.1	3.7	3.9	6.6	6.3	5.5	2.3	1.1	1.6	5.0	5.1	6.2	6.0	1.0	2.8	1.1	5.8	4.3
*Sahara	5.8	5.7	5.3	4.7	4.8	4.9	4.2	3.6	4.0	6.5	6.3	5.5	2.0	1.3	1.4	4.8	4.3	5.7	6.0	1.0	3.5	2.2	5.7	4.3
*Cheyenne	5.7	5.3	4.5	4.4	4.5	4.7	4.6	3.3	3.9	6.8	6.2	4.8	1.7	1.8	1.9	4.8	4.5	5.2	5.7	1.0	5.3	1.2	5.1	4.2
*Sonesta	5.8	5.3	5.1	4.5	4.5	4.8	4.3	3.3	3.3	6.9	6.4	5.3	1.7	1.3	1.4	4.8	3.9	4.5	6.0	1.0	3.2	1.2	5.2	4.1
*Primavera	5.8	5.5	4.5	4.3	4.5	4.7	4.3	3.4	3.6	6.8	6.1	5.1	1.7	1.3	1.2	4.7	3.3	4.3	5.8	1.0	2.3	1.3	5.2	3.9
*Ariz. Common-Seed	5.6	5.3	4.9	4.3	4.5	4.6	4.1	3.5	3.3	6.9	5.8	5.3	2.0	1.1	1.1	4.9	3.4	4.3	5.8	1.1	1.7	1.2	5.1	3.9
*Ariz. Common-Veg.	5.7	5.2	3.6	4.1	4.0	3.3	3.9	3.0	4.0	6.2	5.1	4.1	1.3	1.1	1.1	4.5	5.2	5.5	5.8	1.1	3.8	1.0	4.6	3.8
LSD Value	0.2	0.5	1.0	0.3	0.4	0.7	0.7	0.7	1.0	0.6	0.7	0.8	1.6	1.2	1.2	0.3	1.4	1.5	0.4	0.5	1.9	1.3	0.5	0.2

The following are conditions at the sites of the Bermudagrass national tests, including, in order, location, soil texture, soil pH, nitrogen applied (in pounds per 1,000 square feet), mowing height (in inches) and irrigation practiced:

AL1 — Auburn University, Ala., N/A.
 AR1 — Fayetteville, Ark., N/A.
 AZ1 — Tucson, Ariz., sandy loam, 7.6-8.5, 2.1-3.0, 1.1-1.5, to prevent stress.
 CA2 — Santa Ana, Calif., sandy loam, 6.6-7.0, 3.1-4.0, 0.6-1.0, to prevent stress.
 CA3 — Riverside, Calif., sandy loam, 6.6-7.0, 3.1-4.0, 0.6-1.0, to prevent stress.
 FL1 — Gainesville, Fla., loamy sand, 6.6-7.0, 1.1-2.0, 0.6-1.0, to prevent stress.
 GA1 — Griffin, Ga. (high soil pH), sandy loam,

5.6-6.0, 3.1-4.0, 0.6-1.0, to prevent stress.
 GA2 — Griffin, Ga. (low soil pH), sandy loam, 4.6-5.5, 3.1-4.0, 0.6-1.0, to prevent dormancy.
 IL2 — Carbondale, Ill., silty clay loam, 6.1-6.5, 3.1-4.0, 1.1-1.5, no irrigation.
 KS2 — Wichita, Kan., sandy loam, 6.6-7.0, 3.1-4.0, 0.6-1.0, only during severe stress.
 KY1 — Lexington, Ky., silt loam and silt, 6.1-6.5, 1.1-2.0, 0.6-1.0, only during severe stress.
 LA2 — Calhoun, La., sandy loam, 5.6-6.0, 2.1-3.0, 1.1-1.5, to prevent stress.
 MD1 — Silver Spring, Md., sandy loam, 6.1-6.5, 3.1-4.0, 0.6-1.0, to prevent dormancy.
 MO1 — Columbia, Mo., silt loam and silt, 6.1-6.5, 2.1-3.0, 1.6-2.0, to prevent stress.
 MO2 — New Franklin, Mo., silt loam and silt, 6.1-6.5, 2.1-3.0, 1.6-2.0, to prevent stress.

MS1 — Mississippi State, Miss., sandy clay loam, 6.6-7.0, 2.1-3.0, 2.1-2.5, to prevent dormancy.
 NE1 — Lincoln, Neb., sandy clay loam, 6.6-7.0, 3.1-4.0, 2.6-3.0, to prevent stress.
 OK1 — Stillwater, Okla., loam, 6.6-7.0, 1.1-2.0, 1.6-2.0, to prevent stress.
 TX1 — Dallas, Texas (full sun), silty clay and clay, 7.6-8.5, 3.1-4.0, 0.6-1.0, to prevent stress.
 TX2 — Dallas, Texas (partial shade), silty clay and clay, 7.6-8.5, 0.0-1.0, 2.1-2.5, to prevent stress.
 UB1 — Beltsville, Md. (high maintenance), loam, 5.6-6.0, 1.1-2.0, 0.6-1.0, to prevent stress.
 VA1 — Blacksburg, Va., silty loam and silt, 6.1-6.5, 3.1-4.0, 0.6-1.0, only during severe stress.
 VA4 — Virginia Beach, Va., sandy loam, 5.6-6.0, 4.1-5.0, 0.6-1.0, to prevent dormancy.

ket in two years."

"We're comparing everything to Tifway and Tifgreen," said Morris. "If the ultimate is fine texture, it will be difficult to beat Tifgreen."

Yet, Taliaferro feels a Bermudagrass variety suitable for tees and greens will be released "relatively quickly. Arden [Baltensburger] has very good looking seeded Bermudagrasses. There has been substantial improvement in forage-quality types that have been released, and seed will be on the market relatively soon."

Taliaferro, whose research is centering on the African Bermudagrass *Cynodon-transvaalensis*, said there is "substantial genetic variation within that species ... which can be used for genetic improvement. We are looking at selections for two basic purposes: one, potential use on putting greens in the deep South; and, two, their use in other applications in the transition zone because they do have quite good cold tolerance..."

"There is a good possibility we may release one or more African selections as cultivars for turf use, not necessarily initially for greens, but perhaps tee boxes or fairways in the upper South in particular. While we've not found selections we feel are candidates for release and use on putting greens in the deep South, their variations open up that possibility. They are extremely fine-textured and can withstand cutting at 3/16 inch, or as low as 1/8 inch for limited times."

Bermudas are aggressive, quick to recover, drought-, wear- and salt-tolerant, and stand up better to effluent than cool-season grasses. If fine-textured, they can be mowed low. So, researchers push ahead searching for the ultimate Bermudagrass. As seed pioneer Royce Richardson, then-Farmers Marketing president, said before he died in 1993: "Bermudagrass does some great things on a golf course."

For supers, 1995 could be a jackpot in buying Bermudas

Among the new grasses adding to the selection mix this year are:

- Jackpot, available in July from Jacklin. "What we've concentrated on with Jackpot," said Jacklin research director Dr. Doug Brede, "is to go for a real fine texture in a seeded Bermuda. Until this point, we were at a moderate texture, mainly because we wanted to get as cold-hardy as we could. Through testing in northern Idaho, we were able to find cold-tolerance. It goes against the belief that fine-textured Bermudas don't have cold tolerance."

- Sundevil 2 from Medalist America. Developed by Jacklin, Sundevil 2 is a cultivar in the Jackpot series. Like Jackpot, it is a good seed yielder.

- Primavera from Seed Research of Oregon. Aimed mostly for golf course roughs in its current state, Primavera has shown "very good cold-hardiness and good dark green color," said Seed Research technical agronomist Skip Lynch. "The only thing it's not is fine-textured when compared to hybrids. Compared to other commons, it is significantly finer. It just is not what people expect for fairways."

- Mirage and Pyramid from International Seed. "Our objective is to take Mirage into the mid-South, the northern fringe of the Bermudagrass belt, in the fairways," said Director of Research Craig Edminster. "Pyramid is more of a warm-blooded type of Bermuda and is very fine-bladed."

Mirage has phenomenal cold toler-

ance, Edminster said, adding that means it survives well in Kentucky, Tennessee, the mid-South, and in areas where Bermudagrasses don't typically do well like southern regions of the Southern Hemisphere, Argentina, Brazil and Southern Australia.

- Yuma and Cheyenne from Pennington. Cheyenne, on the market for three years, "exhibits a lot of cold tolerance," said Stapp. "We've grown it as far north as Wichita, Kansas City, into the Washington, D.C., area with success."

New on the market this year, Yuma is finer-bladed and lower-growing, but without Cheyenne's cold tolerance.

- Sultan, a seeded variety, and a hybrid seeded variety from the Princess brand from Farmers Marketing. Sultan is coming out this fall, and in 1996 "we will be going full bore with it," said plant breeder Jeff Klingenberg. "It's not a massive improvement, but significant enough to quantify as a new variety. It's better in density, has a more uniform texture, is greener in color and has a better response to fertilizer."

The Princess brand hybrid, he said, "has the quality of a Tifway." It will be available in a very limited quantity this year, he said. "It is very hardy. The quality is as dense as and has the color of Tifgreen, and can be used on tees and fairways quite easily."

Bermudagrass Decline problems? Beware triazoles

By MARK LESLIE

FT. LAUDERDALE, Fla. — Southern superintendents are living "on the edge" in growing Bermudagrass, and one researcher hopes to help prevent them from going over that edge in fighting Bermudagrass Decline.

"There is no way to fight the Bermudagrass Decline except by raising the height of cut," said Monica Elliott, associate professor of plant pathology at the University of Florida's Ft. Lauderdale Research Center. "Fungicides don't work. We've looked at other cultural treatments, too, in terms of increasing fertility and we see no response. The best response is to simply raise the height of cut."

"On a Tifgreen [Bermudagrass] putting green we went from 3/16- to 1/4-inch [height] and it was literally the difference between death and life. That's very subtle — 1/16 inch. But that is how close we are to the edge on Bermudagrass greens down here during the summer months."

Tifdwarf putting greens will tolerate a lower height, but even they won't survive a 1/8- or 5/32-inch cut all summer, she said.

Elliott's four-year research project focused on using triazole fungicides to control Bermudagrass Decline — a root-rot disease, she said. "That is when I discovered the negative response. None of the fungicides improved the quality over the check treatment where no fungicides were used. There was absolutely no positive response."

In fact, she said her research shows superintendents may be exacerbating their Bermudagrass Decline problems if they use triazoles. Although triazoles can work wonders on cool-season grasses, and even enhance their growth, Elliott found quite the opposite in warm-season climates.

"In some cases we see a negative response to triazole fungicides," she said. "They are in the same chemical class as some of the plant growth regulators (PGRs)..."

The Ft. Lauderdale project examined triazoles on Bermudagrass Decline in May through October. But Elliott said: "I suspect we would see a similar response in the winter — which is no response. We might even see a negative response again."

She said using triazole fungicides on Bermudagrass "once in awhile" would be all right. "But when it is used repeatedly, people tend to run into problems," she said, listing a color change (perhaps a greenish brown, or darker green) as well as reduced growth ("sometimes significantly, then the grass starts to thin out and weeds often can come in").

Elliott also warned about combining triazole products, such as a fungicide with a PGR, "because you will get a double whammy."

"There is also some concern with pre-emergent dinitroaniline [DNA] herbicides that inhibit root growth of grass weeds," she added. "If a turfgrass plant's growth is being affected by a triazole fungicide and you have these herbicides down, too, you may see problems in terms of recovery. The fungicides may be reducing the growth of the plant, which includes the roots, and so you shorten the root system up to the zone where the herbicides are located. Then you can't get the roots to recover on the turfgrass."

Meanwhile, research at the University of Georgia indicates that even on cool-season grasses, some of the new triazoles cause some growth regulation, according to Dr. Lee Burpee, who has conducted the research from the Griffin Station 30 miles south of Atlanta.

"We've looked at triazoles for control on creeping bentgrass with at least some of the triazoles," Burpee said. "When you apply them at the recommended rate for brown patch (usually one of the highest label rates) in June, July and August, we do see growth regulator effects. I can't say all the triazoles, but at least some."

"I think it's dependent on the product. Some are more regulatory than others," Elliott said.

The height-of-cut solution gives the turf a better chance of living even if its root system is poor, she added. "A lot of times, you can try gradually raising heights and explaining to the membership. A couple of courses that have few players during the summer are raising the height, period. When the bulk of the players return in the fall they have turf to play on."

"On public courses you have a problem. A lot of superintendents bounce the height up and down. When the turf starts to look real stressed, they raise the height."

Superintendents needing to maintain fast green speed can compensate for the raised height by such cultural methods as double-cutting, grooming, rolling and top dressing, Elliott said. "You don't want to roll all the time. But when you have to raise the height of cut to save the grass, you can increase the putting speed to keep your job."

...

Elliott said she has suspicions about why triazole fungicides do not affect Bermudagrass Decline.

"One is the growth regulation response," she said. Second, a recent paper in an ecology journal reported that common Bermudagrass responds to low nutrition or low light.

"In a low cumulative light situation, which is essentially what we have in

ONE EXCEPTION AMONG TRIAZOLES

While other triazole-based fungicides regulate plant growth in Bermudagrass, a new product may be coming on the market next year that does not have that effect, according to University of Florida Associate Professor Monica Elliott.

"We don't see a negative response with Bayer's Lynx," she said. "Unlike the others, it does not stop growth."

Lynx, whose active ingredient is tebuconazole, is "progressing along, but not yet on the doorstep" of being released, according to Jim Dotson, Bayer's product development manager for turf and ornamental products.

"We are hopeful of registration [of Lynx] in 1996," Dotson said, "and that depends on EPA [Environmental Protection Agency] review time."

Florida in the summer months, Bermudagrass puts all its energy into stolons, not roots... This time of year Bermudagrass is at its best. It has an intensive root system and looks beautiful. Then it seems to gradually decline over the summer. Its best months are March to June. Then in August everything is gone. I think that is why we don't see a response to the fungicide. The plant isn't responding naturally to replacing roots yet."

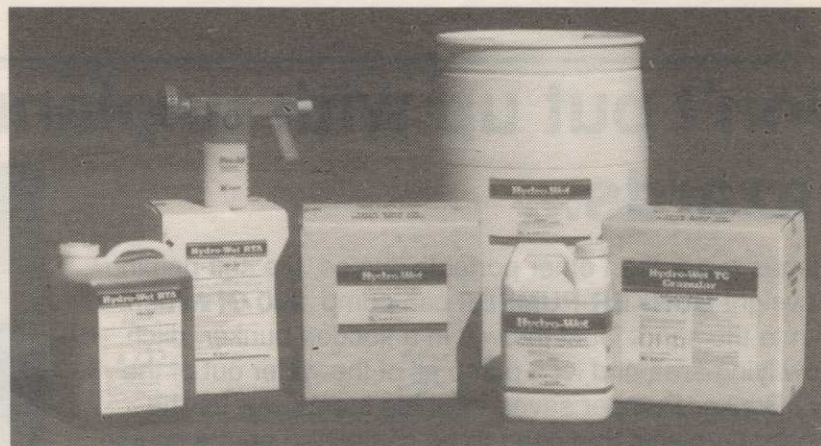
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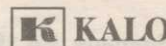
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For Bermudagrass seed marketers: the 40-40 zone is their oyster

By MARK LESLIE

Consider the growing zone of Bermudagrass — 40 degrees north to 40 degrees south of the Equator — and it's obvious there is a mammoth market for this warm-season turf in golf. Yet, only in recent years have seed companies and universities researchers started to key on developing seeded varieties to compete with the industry's standard-bearer for the last 30 years: the vegetatively propagated Tifway 419 Bermuda.

"It's amazing we have done so much work on cool-season grasses over the years and not devoted much time to warm-season," said Ronnie Stapp, senior vice

president of seed operations for Pennington Enterprises. "But we have seen that the market can be grown, going north and further penetrating the area that Bermuda is already in ... and winning customers who would otherwise be buying sod."

Farmers Marketing Corp., International Seed Inc., Jacklin Seed Co., Medalist America, O.M. Scott, Pennington and Seed Research of Oregon are all players in the market.

"Our intention six years ago was to get into the Bermudagrass business because, as far as warm-season species go, it clearly had not been worked on, so it provided a lot of proprietary opportunity," said Craig

Edminster, director of research for International Seeds. "It doesn't have the glamor of zoysiagrass or St. Augustine. But it is low maintenance-oriented (in water, toughness, drought-tolerance, ability to live in many different climates, perform under low height of cut).

"If you're in the mid-South and want to reduce costs of maintaining your golf course but want that elite bentgrass for the high-end golfer, Bermudagrass is the choice. The problem is, it's dormant in the winter, and, depending on your situation, that may or may not be acceptable.

"You don't have to have a crystal ball to see this warm-season species has

potential," he added.

That potential goes far beyond an extensive market in the United States.

"Those folks in Southeast Asia don't have the infrastructure for the sod industry like we do, and it will be years and years before they do. So if you can provide, in a bag, a type of Bermudagrass comparable to, or a little less in performance [than vegetative varieties], you have a huge international market," Edminster said.

Pennington, whose Arizona operation reportedly handles about one-third of the 12 million pounds of Bermudagrass produced in the United States, concurred.

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CIRCLE #118

NTEP begins membership

The National Turfgrass Evaluation Program (NTEP) has initiated a \$30 annual membership fee. Payment of the membership fee entitles individuals to receive all NTEP reports produced in 1995. Exempt from the fee are university turfgrass faculty members and seed companies that enter grasses into NTEP tests.

NTEP was initiated in 1980 to provide unbiased information on turfgrasses to the turfgrass industry. Since 1980, several hundred grasses have been tested by NTEP with more than 600 grasses currently being tested in locations throughout the United States and Canada. Grasses tested include Kentucky bluegrass, perennial ryegrass, tall fescue, fine leaf fescue, bentgrass, bermudagrass, buffalograss and zoysiagrass. NTEP progress reports contain information on turfgrass quality, genetic color, leaf texture, spring green-up, density, disease and insect resistance, drought and cold tolerance, establishment rate and many other characteristics.

The NTEP is a sponsored program of the National Turfgrass Federation, Inc. and the United States Department of Agriculture. The National Turfgrass Federation, Inc. is recognized by the Internal Revenue Service as a 501 (c) (3) non-profit organization; therefore membership fees may be tax deductible. Please consult your tax adviser for details.

For information about the NTEP please contact: Kevin N. Morris, National Program Coordinator, National Turfgrass Evaluation Program, Beltsville Agricultural Research Center-West, Building 002, Room 013, Beltsville, MD USA 20705; Phone 301-504-5125; Fax 301-504-5167.

Seed vs. sod equals 'huge cost savings' for superintendents

Once seed-propagated Bermudagrass varieties on a par with vegetative types are developed, cost savings will be huge.

Seeding costs half what sprigging costs, Pennington Enterprises' Ronnie Stapp estimated. International Seeds' Craig Edminster thinks the savings are even greater. "If you sod a standard golf course wall to wall with Bermudagrass (70 to 90 acres of fairway, another 30 to 45 of roughs), that will cost you close to \$500,000," he said. "You can cover 90 acres with 8,100 pounds of Bermudagrass seed — a fraction of the sod cost."

"And if you can get it to come up within seven to 10 days, how does that compare to sprigging — with all the water, fertilizer, etc. you need for sprigs?" asked Skip Lynch of Seed Research of Oregon.

Seed is also "so much more convenient and reliable. Someone can buy seed that is certified and can keep it on the shelf," said Dr. Doug Brede, research director for Jacklin Seed.

"Once it's established, you've got a population of grass that is going to be aggressive and uniform," Klingenberg said. "Remember, when you're putting down sod, unless you stolonize it — which is probably what they'll be doing from here on out in big areas — you've got that long period of time for it to grow together. And if you put down straight carpet sod, you've got that interface between the sod and soil that can cause problems down the road..."

NTEP field day set

BELTSVILLE, Md. — On Aug. 3, from 8:30 a.m. to 12:30 p.m., the National Turfgrass Evaluation Program (NTEP) will conduct a turfgrass research field day here at the U.S. Drug Administration Beltsville Agricultural Research Center.

Topics will include discussion and display of NTEP tests of Kentucky bluegrass, perennial ryegrass, tall fescue, fineleaf fescue, bentgrass, Bermudagrass, buffalograss, zoysiagrass; establishment methods of zoysiagrass; traffic tolerance of cultivars, blends and mixtures; traffic tolerance of poa supina mixtures; endophyte-enhanced grasses; low maintenance performance of tall fescue, Kentucky bluegrass and zoysiagrass; organic fertilizer use on turfgrass; management of the zoysiagrass/tall fescue mixture.

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CIRCLE #119

The Name Game

Continued from page 1

Riviera, Rebel, Nomad, Blazer, Taurus, Avanti, El Dorado, Regal, (La) Sabre, Eclipse, Cutless, Jaguar, Seville," recounted Steve Tubbs, president of Turf Merchants. "In a world of sameness, it's important to be unique. One of the best names ever was a turf-type fine fescue that came out in the early '80s called Houndog [from International Seeds]."

"Everyone laughed at it, but everyone talked about it, too. I wanted to name something, *You ain't nothing but a...* so I could make a blend."

A very unscientific survey of seed and chemical suppliers revealed there is a method to the madness of product introduction. Actually, several methods. Most firms pool the resources of different departments into brainstorming groups, formed specifically to name products. Others come upon them by chance. Others farm the project out to firms specializing in formulating appropriate product names.

"There are even computer programs that spit out page after page of 'appropriate' names," said Gene Hintze, marketing services manager at Sandoz Agro purveyors of Barricade and Sentinel, two names that received high marks from those surveyed. "You can tell a list that's been spit out by a computer because it includes suggestions like *Zarkok*."

Unanimous, however, was the feeling that the most successful names — i.e., those most easily lent to productive advertising campaigns — are those that both describe the product function and harness the imagination of turf managers.

A good example is Shadow, the fine fescue from Turf Seed, designed to thrive in shady areas. The best example may be Bonzi, the growth regulator manufactured by Uniroyal but named by Zeneca. By combining the image of miniature bonsai trees and the aggressive yell of Japanese warriors, Bonzi may be the perfect blend of image and function.

"The absolute best name of all," concluded Jim Petta, head of Turf and Ornamental at Zeneca. "There's no name that fits its use better than Bonzi... My personal favorite is Reward, our contact non-selective herbicide. You can do so many things with that name."

"The problem is, if it's a normal word, nine times out of 10 someone else has the trademark on it. That's what makes it a difficult process. Primo is a great name, and one we tried to get. But Ciba had acquired the rights many years before."

For a potential seed variety name, the equivalent to a trademark search is a trip to the seed regulatory and testing branch of the U.S. Department of Agriculture (USDA) in Beltsville, Md. More than 68,000 variety names, some of them dating back to the 19th century, are kept on file there, according to USDA horti-

culturist Al Burgoon.

"There are so many variety names, so many old ones," said Burgoon, wracking his brain for inventive entries. "Some of the really old names are ridiculous — I can't believe I'm drawing a blank here... Okay: Lazy Wife. That's a pretty good one."

Every company has its own approach to the naming process. In the seed world, for example, Jacklin Seed has been successful with the inventive use of golf terms like Putter. Barenbrug USA uses the "Bar" prefix to create brand equity [Bardot and Baron], while Turf Seed, Inc. President Bill Rose has been

known to name varieties after good employees [Darcy].

Some firms apply method to their madness after the fact.

"People ask us if we named it Sahara because it's so drought tolerant. We tell them, 'No, we just liked the name,'" explained Brenda Dossey, manager, special projects at Farmer's Marketing.

A few years ago, Owen Towne, manager of business development, Turf & Ornamental at Ciba, traveled to San Antonio to observe plots where the firm's new propiconazole product was being tested. He visited the Alamo and learned that "alamo" means cottonwood tree in Spanish. Because

propiconazole has arboreal applications, the rest is history.

"At that point, all we had was a Section 18, a state-use permit," said Towne, then the product manager for Alamo. "So it could only be used in Texas, which meant it fit even better... I think the point is, a good name cannot save a bad product. I don't know if a bad name can sink a good product, but it can certainly hinder its progress."

Seed Research of Oregon, taking no chances on either side of Towne's supposition, names all its varieties according to a letter-number formula. Each bentgrass, for example, is part

of an SR 1000 series; each bluegrass is part of an SR 2000 series; and so on.

"That makes it simple for us, for the consumer and for the universities that test them," explained Skip Lynch, SRO's technical agronomist. "What we're looking for is a very simple, no-questions-asked name that the consumer will automatically associate with our company."

"What really matters is how the product performs. Heck, it's only a name. There's actually a hard fescue out there called Attila [from Turf Merchants]. I'm not sure I want Attila on my golf course."

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Rothwell Seeds Ltd.
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Smith Turf & Irrigation Co.
Charlotte, NC

Southeastern Turf Grass Supply
Jacksonville, FL

Sweeney Seed Company
King of Prussia, PA

Thomas Bros. Grass
Nashville, TN

Turf and Garden
Chesapeake, VA

Turfgrass, Inc.
South Lyon, MI

Twin Light Fertilizer & Seed Co.
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Keystone Ranch Golf Course crew member Jeff Adams clears off a green. Adams, whose hometown is Cape Elizabeth, Maine, is used to late springs, but not like this.



Keystone tackles late-late winter

Continued from page 1

Corneillier's longest spring. At mid-month, the Keystone

region's snowpack for May was 192 percent of normal, including another 30 inches in May, and

more was expected. It's no different at Copper Mountain and Breckenridge — two other mountain courses in the region.

At Keystone Ranch there exists two entirely different conditions. "On the front nine, lower and with more sun exposure, we have gone into a rapid melt-down," Corneillier said. "We hit 72 degrees yesterday and went from two feet of snow to nothing in 36 hours. All the spring runoff from the mountains flows through our lower nine holes, and therefore has pushed the lake and Soda Creek out of their boundaries. So we have one large

body of water on the lower nine in the fairways where the ducks and geese and waterfowl are having a great time.

"On the back nine, we're still in winter. It's back in a valley that is very shaded by the mountain peaks and gets less sun.

In a normal year Keystone opens the front nine around May 20 and the back nine May 26. "We're shooting for June 2 and 9," Corneillier said.

In preparation, his crews first had to snowblow the snow off the greens. Then came aeration. Then, on May 11, mowing — on greens surrounded by a sea of snow. Mowing was necessary because grass should not be cut more than 30 percent of its length.

Because the irrigation heads were still buried in ice, water was pumped from the "lakes" onto the greens in May.

"We are two to four weeks behind [schedule] in the field, depending on what we want to get accomplished," Corneillier said. "We can't get any heavy equipment off the cart paths.

"We're still not up to full staff because there hasn't been enough work on the actual turf to execute. We're hand-raking the tee boxes, tee surrounds and green surrounds. But we can't get sweepers out."

Ideally, Keystone's crews sweep and rake the entire course before mowing. This gets the air circulating and the grass standing up so the mowers don't just flatten it down.

Some greens have been under turf covers to keep the winds from drying off the crown of the plant and to maintain a more constant soil temperature throughout the day and evening.

Judging the health of his turfgrass going into last winter as better than ever, Corneillier attributed it to "a better aeration and plant nutrition program. Those were the best things we have changed dramatically. We're seeing less snow mold and less winter desiccation."

Based on continued soil and water sampling over the last three to four years, Corneillier's crew changed the balance of all the macro- and micro-nutrients.

"We also did more and more aeration of tees, fairways and roughs throughout the entire season," he said. "We're applying more fertilization programs to our roughs as well, due to the expectations of our resort golfer."

Now it's full bore ahead into 1995 in the Rockies. At least for a short while.

"Historically, we will start to get our winter snows in September and will have two or three storms," Corneillier said. "Those early snows will melt off by noon the following day. We start getting snow accumulation around mid-October."

Unless, of course, on July 4 they get a repeat of 1993.

GOLF COURSE NEWS

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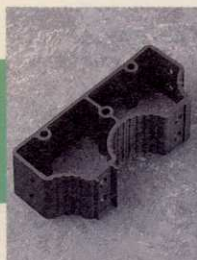
A second Trash Mate handles the rest of the trash — over 9 gallons of it. And, they accept common bag liners for quick, no-mess emptying.

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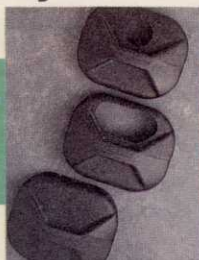
Two Trash Mates Offset-Mounted on a 2" Pipe



One Trash Mate Single-Mounted on a 2" Pipe

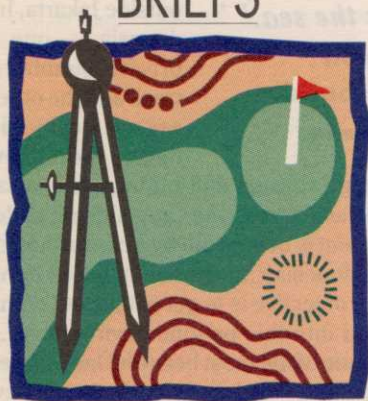


One Trash Mate Mounts on Any Vertical Surface



Three Lid Choices: "Cans Only", Large Trash or No Opening

BRIEFS



ASGCA OFFICERS ASSUME SEATS

ST. ANDREWS, Scotland — Jeff Brauer of Arlington, Texas, was elected president of the American Society of Golf Course Architects (ASGCA) here at the society's annual meeting in early May. Other officers are Denis Griffiths, Braselton, Ga., vice president; Alice O'Neal Dye, Delray Beach, Fla., secretary; and Bob Lohmann, Marengo, Ill., treasurer. Immediate past president Don Knott of Palo Alto, Calif., will serve as an ex-officio member of the ASGCA board of governors.

GOLF & YACHTS IN FLORIDA

FT. MYERS, Fla. — Florida Design Communities opened Gulf Harbour Yacht & Country Club on March 11-12, unveiling a 190-slip state-of-the-art marina homes, bi-level swimming pool and Jacuzzi, and half-redesigned 18-hole golf course. Gulf Harbour, formerly known as River's Edge Yacht & Country Club, was purchased by Florida Design Communities in July 1993. Since that time, FDC has redesigned nine of the golf course's 18 holes to form a more challenging layout.

NORMAN OPENS U.S. OFFICE

TEQUESTA, Fla. — The Sydney, Australia-based Greg Norman Design Co. has opened its first United States



Greg Norman

operation here, and the popular golfer-designer has assembled an experienced executive staff. Running the business are Vice President of Australia and Southeast Asia

Bart Collins, Chief of Design Bob Harrison, Design and Construction Manager Jason McCoy and General Manager David Barnes.

SAND CREEK OPENS MARSH COURSE

CHESTERTON, Ind. — The nine-hole Marsh Course at Sand Creek Country Club is open for play. The course was designed by the Desert Springs Companies partners Jerry Mobley and Charles Howard. Together with Sand Creek's current 18 holes — the Creek and Lake courses — the Marsh Course brings the private country club to a total of 27 holes.

JACK II BUSY IN ITALY

NORTH PALM BEACH, Fla. — Working on the Italian countryside site close to Lake Garda and featuring the historic Drugolo castle, Jack Nicklaus II has begun designing the first 27 holes of a 72-hole resort project outside Milan — the largest of its kind in Italy.

Benz pioneers surface-to-surface missives

6,000 miles a mere map/Fax away

By MARK LESLIE

LOS GATOS, Calif. — Pushing computerized terrain modeling to a new level that encompasses the technical elements of construction, golf course architect Brad Benz said he is speeding up the construction process by 30 to 35 percent.

"This is light-years ahead [of other programs]," said Benz from his headquarters here. "It is phenomenal. We keep upgrading and advancing it. With each project, we learn something new."

Benz and his computer-expert sidekick, senior golf course architect David Snead, essentially designed and built two computers for the process. Taking elements of 52 software programs relevant to their needs, they merged them so they communicate with one another.

Continued on next page



Duke's Dene, above in reality and below through computer modeling, greens up for its opening south of London.



An American in England

By MARK LESLIE

LONDON — Call it multicultural. Call it an invasion from abroad. But don't call Duke's Dene golf course an Americanization of a British game.

This golf course — although developed by Mizno-Gumi Co. of Tokyo and designed by American Brad Benz — will be "every bit British" when it opens in July or August, said Benz.

Yes, it will sport bentgrass greens and tees. But that is the only thing about Duke's Dene (meaning valley) that will not scream out: "I'm British!"

"People were concerned how an American could do anything in England that would be remotely close to English golf," Benz said. "I said, 'That's the easy part.' The technical side of solving problems in golf is far

Continued on next page

Builders crossing the Pacific in opposite directions

Kajima exports Japanese savvy while...

... Pacific Golf getting it done abroad

By MARK LESLIE

PASADENA, Calif. — When a company's main diet is building floating airports, tunnels and dams... when it hails from a country where many sites are "engineering and construction nightmares" ... when it even designs and builds its own construction equipment, a mere golf facility should present no challenge too big. That is the feeling of global engineering and construction giant Kajima Corp. and its Golf Division manager in America, Tom Buzbee.

"We think the golf business is heading towards centralized management," said Buzbee from his headquarters here. "It's getting complicated and expensive."

"We're on the ground floor of something I think will change the golf business a little. How much we are able to do depends on how we are able to circulate."

Since the construction firm is the "lead" company in projects in its native Japan, Kajima was "the logical one to take that position in America — to lead the team, administer all the contracts, pay everybody, take on the liability insurance on behalf of the group..." Buzbee said.

Continued on page 31

By MARK LESLIE

SINGAPORE — Golf developers in Asia-Pacific are no longer all talk and no show, according to a major golf course builder in the region.

"Previously, a lot of people were 'talking' about projects [and it] never went beyond 'talk.' Now, those who are talking are serious," said M.D. Martin, managing director of Pacific Golf Course Construction Pte. Ltd., headquartered here.

Pacific Golf, which has two projects under construction — both in Indonesia — is seriously investigating 20 others throughout Asia. "They are mainly in China and Indonesia," Martin said, although "India and Vietnam show great promise."

A vast majority of the projects are getting their financial support from within each country, he said, and while "probably a little less" is being spent generally, "those spending more are getting more, maximizing use of their money."

He said more competition from contractors, materials and suppliers is helping push costs down.

Asked if golf will, in the foreseeable future, be affordable to average citizens in Asia-Pacific, Martin said: "I firmly

Continued on page 31

IMPRESSIVE TEAM OPENS GREEN BAY CC

The Green Bay Country Club, five miles southeast of downtown at the intersection of Interstate 43 and U.S. Route 172, opened to members for play on May 5. The 18-hole Dick Nugent-designed, private course was constructed by Wadsworth Golf Course Construction Co. on rolling farmland, unobstructed by homesites. The natural setting, which features a winding creek, was enhanced by Nugent's addition of four manmade lakes and complemented by the all bentgrass playing surfaces. Water comes into play on 13 of the 18 holes. The par-5, 6th hole is the longest five-par in the state at 634 yards. Western Golf Properties served as consultants during construction. The management team includes club manager Alex Reich; superintendent Marc Davison; professional Mark Hagenbach.



American Benz wins over Brits

Continued from previous page

more challenging and difficult. If you build in England, it will be English inherently. We know the difficulties and how, from a technical perspective, to build those. We've done everything from riveting of bunkers to the subtle contouring that was a condition of project approval."

Duke's Dene was "a contentious project," drawing opposition from area residents when first proposed, Benz said.

"There was a natural resistance" among locals to Americans designing the course said the contractor, Brit Brian Pierson. "The perception of British people of American architects is of major muck shift, huge

recontouring. They didn't realize Brad and [senior architect] David [Snead] were more traditionally British in their attitude."

"But all of a sudden, golf balls started showing up all over the golf course," Benz said. "These characters were smacking golf balls around in the early morning or the evening, thinking this might, in fact, be very good. Now that they see what we're doing, it has been received favorably. In fact, the planning authorities are not happy they cut us back on what we wanted to do."

The developers had proposed building three lakes. Planners nixed that idea. Instead, three underground concrete tanks serve as the water reservoir.

Benz used the valley's "cleavage, its perfectly rounded swales" in creating the course, making it "a special place without spending a lot of money — significantly under \$2 million."

While the greens and tees are seeded in bentgrass, the rest of the course is fescues, with colorful wildflowers in the roughs.

"It was 'hands across the sea.'"
— Brian Pierson
British golf course builder

Meanwhile, Benz is working with an Irish corporation, Alliston Ltd., on a 72-hole project in eastern Morocco, sitting on 2,000 acres right on the Mediterranean Sea.

"This site has the most beautiful dunes land I have ever seen," Benz said. "We will take a minimal approach. As you go from the water inland, it changes from beachfront to grassy dunes into sandy waste areas that have a smattering of snarly trees buffeted by the wind and beautiful tree-covered areas."

Construction is expected to begin in November. The initial phase will include 36 holes of golf and seven hotels. Many residential components and recreation are planned.

Two to three years from now, expect to see two Benz-designed 18-hole courses in

the Sukabumi area outside Jakarta, Indonesia — one a private members' track and the other a resort facility. Sitting on the outflow

of a huge volcano and butting up against the national forest, the Crystal Springs development is being built by a consortium of four Indonesian businessmen based here.

"The objective is to get people out of the city and into this pristine environment ... that is one of the most beautiful landscapes I have seen," said Benz. "When the new freeway is constructed, the drive should be one hour to 1-1/2 hours from the city."

Construction of the members' course is expected to begin in late July, and the resort track will get underway in about two years, Benz said. Various types of housing accommodations are planned for the members' area on the huge tract of land.

The site has "some very, very steep topography," Benz said. "It is intersected in the drainage areas by beautiful streams and rivers. The north portion has been used as rice paddies and spring onion fields... On south side, where the members' course is built, you can see the sea."



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CIRCLE #125

Computer modeling saving big-time

Continued from previous page

"We can use them for all of our needs — from contour development of the playing surface to the technical side — irrigation design, hydraulics of the irrigation system so we can size pipe, drainage, etc.," said Benz. "But, most important, by using terrain modeling and getting it to the construction personnel, it speeds up the construction process by 30 to 35 percent."

An example: A bulldozer operator working for British contractor Brian Pierson calls Benz's office in the United States from the construction trailer outside London. "I'm 135 meters in front of the 5th green, 24 meters to its right and 7-1/2 meters high on my dozer. I need that view of the green complex," Benz pulls up that information on the computer, prints out

the image, and in two minutes the dozer operator has a fax in hand showing how the feature should look.

"It removes the charade of the prima donna architects who can't put down [on paper] what a hole will be like," Benz said. "Contractors love it."

"It's been a great help," agreed Pierson from his London office. "There is no doubt that what Brad Benz and David Snead were able to fax to us was of great assistance to our construction managers and shapers. It was 'hands across the sea.'"

Pierson said the technology saves in both administration and earth-moving, adding while "it will not ever supersede, on every occasion, the more traditional methods... In the future it is the way a lot of design work is moving."

In working with "a long-distance architect," as he did with Benz and Snead, he said: "Because of the distance and logistics, in between their monthly visits the CADD system was invaluable."

Regarding construction, when in doubt the shaper can get a faxed copy of what a specific site on the course should look like and therefore not move dirt twice, Pierson said.

Benz said it takes one week to input the design information into the computer, which then "serves as the basis for everything we do. We can take it a step further and add color, shading and shadowing. Every time a client has come in to see these, their mouths drop," he said.

Whether computer-generated images or simulated "fly-throughs," the end product provides "a tremendous opportunity from construction to marketing," Benz added. "By using this in the way we're applying it, it benefits other aspects of the design and construction process, which is a savings to us. There will be some increase in cost to the client. But it really manifests itself in savings in the construction process."

Does Benz plan to make the creation available through mass production? "No," he said. "I just want to design golf courses."

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CIRCLE #126

Kajima, team-style

Continued from page 29

While Kajima works out of eight offices in Asia, two in Australia, four in Europe, three in the Middle East, two in Africa and one in South America, it also maintains five U.S. offices. The Pasadena subsidiary, Kajima Engineering and Construction, Inc. (KEC), encompasses the Golf Division, which often does business as Golf Dimensions, a joint effort of Kajima and Irvine, Calif.-based Project Dimensions, Inc. Having completed Cypress Golf Course in Anaheim, KEC is managing development of Farmont Golf Club in Ojai, overseeing driving range/par-3 facilities in Torrance and Sacramento, and has a half-dozen in pre-contract negotiations, Buzbee said.

"We're the third arm the owner always

wished he had," he said, adding that KEC's service is "like design-build but the design process is not in-house. We manage the customized team, the right amount of local and specialty designers, and put them together to get the right flavor for the project."

"We incorporate everything the developer needs, all the personal things and particular team members he wants, and roll them all into one. And he gets one bill each month, one meeting, one project manager. We're managing the process, coordinating with [sub-contractors], paying them, contracting, committing to dates and budgets. We take 12 phone calls and 12 contracts away from the owner, who may not be comfortable administering them."

Saying that KEC learned centralized management in Japan where "a lot of the sites are engineering and construction

nightmares," Buzbee said in America "the architects run the show, and that's one thing Kajima had to learn. We instead ask architects if we can recommend them and include them on our team."

American architects who worked in Japan in the 1980s became comfortable working with KEC, he said. "When they worked in Asia, Kajima kept showing up — in Indonesia, Korea Taiwan, everywhere they went. They started to realize the financial capabilities of a Kajima being so well funded. There was never a fear of not finishing a project."

Buzbee warned that KEC is not the right company for a developer planning just a golf course. But if housing, clubhouses, roads, utilities, or other construction is planned, KEC is there to "create the right recipe — designwise and constructionwise. A hybrid group is always put together."

Pacific Golf making presence known in A-P

Continued from page 29

believe once the rush for the resort and private club market reaches saturation, developers will start to look at mid-range price daily-fee courses.

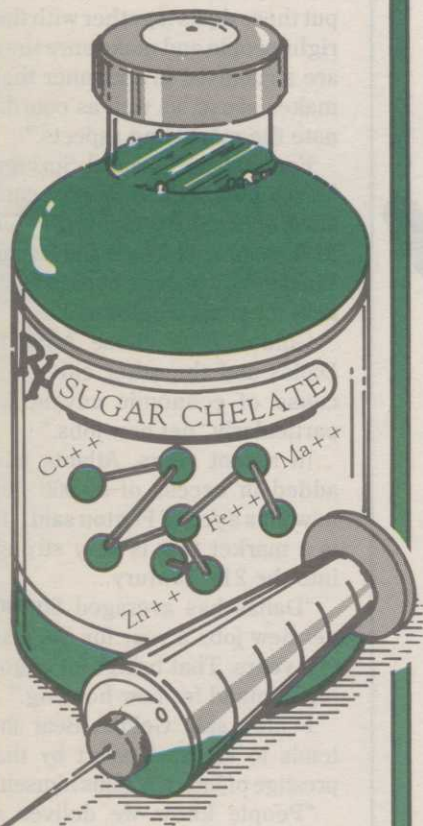
"There is a great demand for daily-fee courses and once that floodgate opens, I honestly believe we'll see another 'boom' in activity."

When this daily-fee construction takes root, golf will become affordable for the average citizen, Martin said.

One of the two Indonesian projects Pacific Golf is working on will be finished this year and one next year, Martin said.

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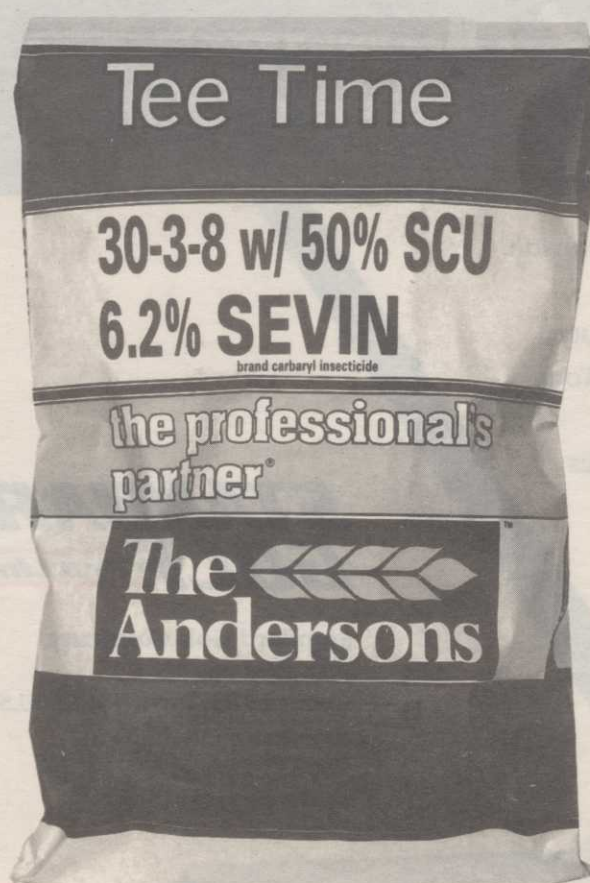
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CIRCLE #128

Nicklaus aboard public-access train

Continued from page 1

adding that two land deals could be finalized by the end of July.

"Laurel Springs will be semi-private and daily-fee," Fenton said. "Atlanta is a very good daily-fee golf market. This is a gated community, but it will have middle-market housing and ... families whose capital and savings are going to educate their children rather than toward \$40,000 to \$50,000 golf memberships."

"We feel the daily-fee market is an area of opportunity for us,"

said Golden Bear International Golf Development Director Clyde Measey from his office here.

While the first Golden Bear Golf Community is Laurel Springs, Nicklaus and son Jackie are building the first Golden Bear Golf Club in Stuart. Expected to open in December, it will retain the tone of the communities, operating as a semi-private and daily-fee facility, said Golden Bear spokesman Andy O'Brien.

"It will be the first of a network of golf courses — first in the

United States, then internationally," O'Brien said.

Besides the Stuart facility, future Golden Bear Golf Clubs will be tied to the residential communities, Measey said. It's entirely a Golden Bear operation. Nicklaus Golf Design is designing the courses. Paragon Golf Construction, Inc. is building them and Executive Sports Inc., operating under the Golf Course Sports Management Division, will manage them. Former PGA West Director of Golf Steve

Walser has been hired to head the management team.

The cornerstone of the 630-acre Laurel Springs project will be a Jack Nicklaus Signature course, which Golden Bear will design, build and manage, Fenton said. The course should be completed within 24 months. Buildout of 854 single-family homes — by a dozen hand-picked Atlanta-area builders — is expected to begin in five months and be completed in six to eight years, he said.

It will be a model for future Golden Bear Golf Communities. Property owners may elect to

have privileges, like preferred starting times and favorable pricing, that non-property owners won't have, Fenton said.

Saying the Golden Bear group has worked on the concept for two years, Fenton said a key backer is a New York investment banking partner. Over the next five years, the network may number 10 to 15 projects, he added.

He forecast that each project will possess one 18-hole Nicklaus course. "Project size is an important consideration," Fenton said. "In the '70s and '80s you saw massive projects and thousands of house lots. We're trying to stay small enough that we can see the beginning and end of the project and not submit ourselves to unknowns in the economy."

Important in any market is doing business with local developers with proven track records and with knowledge about approvals, zoning, government and environmental agencies, he said. "We are trying our best not to be developers. Our function is to put these deals together with the right people and make sure they are structured in a manner that makes sense, as well as coordinate the marketing aspects."

For instance, Laurel Springs Development Co. in Atlanta consists of local developers Peter Millichap, Fritz Rybert and Lamar Wakefield, who have been in business for years, Fenton said.

Golden Bear chose Atlanta, Dallas and the other cities because of economic advances, particularly "net new jobs."

In recent years, Atlanta has added in excess of 80,000 net new jobs a year," Fenton said. "It is a market that is very strong into the 21st century..."

"Dallas has averaged 50,000 net new jobs a year for the last few years. That brings an ongoing demand for new housing."

Fenton said Golden Bear intends to set itself apart by the prestige of Jack Nicklaus himself.

"People know we deliver a quality product," he said. "Jack is a partner, not just designer, in these projects. When he puts his name on anything, people know that represents quality."

Projects Nicklaus has designed and built for other developers "have outperformed competition for absorption rates and maximizing pricing," Fenton said. "We have done two communities in the past — Wynstone in Barrington, Ill., and Country Club of the South in Atlanta. Both are high-end, healthy products with private golf courses."

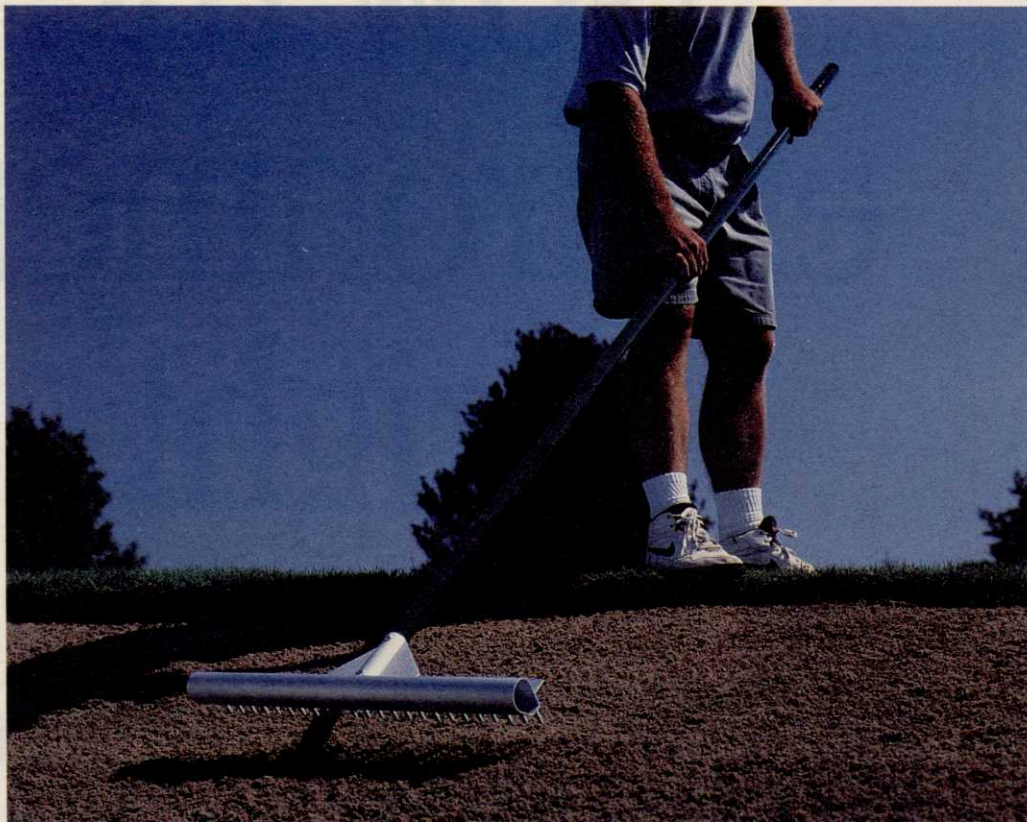
"Today, we're trying to [reach] a much broader market... The average home in Laurel Springs will be \$325,000 to \$350,000, compared to \$800,000."

Meanwhile, since only 30 percent of homebuyers in golf course communities historically play golf, there should be plenty of tee times at the Golden Bear Golf Clubs. At least initially. As the communities mature and fill up, less time will be available, Fenton conceded.

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| <input type="checkbox"/> c. 27 holes | |

(please specify)

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- | | |
|---|---|
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| <input type="checkbox"/> 2. \$50,000-\$99,999 | <input type="checkbox"/> 6. \$750,000-\$1,000,000 |
| <input type="checkbox"/> 3. \$100,000-\$249,999 | <input type="checkbox"/> 7. Over \$1,000,000 |
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GOLF ENTERPRISES IMPROVED

DALLAS — Golf Enterprises reported an operating revenue increase of 43.2 percent during the first quarter of 1995 from the same quarter a year earlier. Operating revenue jumped from \$11.4 million during the first three months of 1994 to \$16.3 million for the same period this year. Operating revenue attributable to existing courses increased approximately 4.3 percent, or \$511,000. The remaining increase was contributed by the nine courses purchased in 1994 and the three acquired so far in 1995.

NGP FINANCIALS UP

SANTA MONICA, Calif. — National Golf Properties Inc. reported funds from operations of \$9 million or 47 cents per share for the quarter ended March 31, a 10-percent increase from the \$8.2 million or 43 cents per share for the same quarter last year. The board declared a cash dividend of \$0.39375 per share for the first quarter. Not reflected in those figures is the \$2 million gain NGP realized from its first-quarter sale of Hidden Hills Country Club in Stone Mountain, Ga. NGP acquired four golf courses in the initial financial quarter giving the real estate investment trust a total of 74 worldwide.

COBBLESTONE PROMOTES BERTHOLD

MESA, Ariz. — Bill Berthold has been named general manager of Red Mountain Ranch Country Club (CC), a Cobblestone Golf Group property located on the edge of the Tonto National Forest. The 750-member club includes a 18-hole Pete Dye-designed course and 25,000-square-foot clubhouse. Berthold was previously general manager of El Camino CC in Oceanside, Calif., which is also a Cobblestone property.

GOLDEN BEAR ADDS WALSER

Steve Walser will oversee Golden Bear Club Services (GCBS) division in his new role as vice president of Executive Sports Inc. Walser, 40, is former director of construction and development at PGA West and LaQuinta Resort in Palm Springs, Calif. Initially, his division will guide operations at Muirfield Village Golf Club and the Country Club at Muirfield in Dublin, Ohio; the Golden Bear Golf Club at Hammock Creek in Palm City, Fla.; Laurel Springs golf community in Atlanta; and Old Works in Anaconda, Mont.



Steve Walser

Brassie and COPM management firms join forces

New company will be second-largest publicly held manager

By PETER BLAIS

ST. LOUIS — The merger of Brassie Golf Corp. with Club Operations and Property Management/Resort Golf Clubs International has created the third-largest management company in the U.S. golf industry and second-largest among publicly held firms.

Operating under the Brassie name, the new firm's portfolio includes 50 owned and managed golf courses in 15 states and five courses in Mexico. The company's newest 18-hole course opened April 15 in Stafford County, Va. Plans are to add six to eight new properties every year.

"It's a pretty exciting time," understated Pat Fister, Brassie's vice president of business development.

Under the terms of the recently revised agreement, Brassie will acquire all of the outstanding shares of COPM in exchange for 1.075 million shares of newly issued Brassie common stock, 375,000 shares of newly issued subordi-



Brassie Golf-managed The Gauntlet at Curtis Park opened recently in Fredericksburg, Virginia.

nated redeemable preferred stock, 500,000 five-year warrants exercisable at \$2.50 per share for the first three years and \$3.25 for the next two years, and \$500,000 in cash.

In exchange, Brassie will assume control COPM's management-only

portfolio of 41 facilities, which includes 32 golf courses and nine city/yacht clubs.

William Horne founded Tallahassee, Fla.-based COPM in 1982. COPM subsidiary Resort Golf Clubs International is involved in golf course design,

Continued on page 38

MARKETING IDEA OF THE MONTH

Vermont resorts cooperate in rare display of Green Mountain unity

By PETER BLAIS

MANCHESTER, Vt. — The Equinox resort has a golf course. So does the Woodstock Resort & Inn.

New England and New York provide the bulk of Equinox golfers. Same with Woodstock.

The Equinox would like to push through 5,000 rounds more a year than the roughly 19,000 it currently attracts. Ditto at Woodstock.

Do the two historic resorts compete or do they cooperate?

"We thought it was more important to get the golfers here and then worry about dividing them up," said Lee Bowden, general manager of the Equinox. "That's how we came up with this joint marketing program."

The "Best of the Joneses" offers golfers a stay-and-play package with the opportunity to play the Rees Jones-re-designed Gleneagles Golf Course at The Equinox and the Robert Trent Jones Sr.-redesigned Woodstock Country Club 90 minutes up the road.

Available midweek April 30 through June 30 and August 20 through Sept. 22, the package offers unlimited golf, complimentary golf cart, gifts from both pro shops and two nights stay at each resort. The entire package costs roughly 20 percent less than guests would pay during peak season. If visitors want to stay an extra evening at either resort, the revenue is split accordingly between the two facilities.

"This seemed like a good way to try to fill some of the down time we typically have in late spring and late summer,"



Vermont's Woodstock Country Club

Bowden said.

Such cooperation among competing golf resorts is rare in Vermont, a state boasting just 47 golf courses, according to the most recent National Golf Foundation figures.

"I haven't seen anything like this before," said Woodstock General Manager Chet Williamson, a 23-year Vermont resort industry veteran. "If you're going to do something like this, you have to know and trust the person on the other end."

That is the case with Bowden and Williamson. Bowden worked for Williamson for several years before taking over The Equinox. The two ski together and talk often.

"We deliver our sales pitches to the same people," Williamson said. "We're both marketing to people motoring around Vermont, Maine, Cape Cod, and

Continued on page 36

New foundation helps communities obtain financing

CHICAGO — Local governments looking to develop, acquire or improve community golf courses have a new resource for financing and managing projects.

The Public Golf Foundation of America (PGFA) — recently established as a tax-exempt, non-profit corporation — can provide complete financing, development and management assistance for new or existing golf projects, according to PGFA Executive Director William Hardy. Hardy also heads North American Golf Inc. (NAG), a Chicago-based management company.

Internal Revenue Service designation as a tax-exempt organization means the Foundation can be a vehicle for tax-exempt bond financing, Hardy said.

"As long as a qualified municipal agency acts as a conduit for the issuance of the bonds, the Foundation can secure financing for sound projects," Hardy said. This approach eliminates the need for a municipal body to pledge its credit or tax revenues toward the bonds, he added.

Expertise in golf development and operations management will come from industry sources, Hardy said. NAG helped develop PGFA and will provide professional and technical support for projects sponsored by the Foundation. However, Hardy said, the Foundation is available to work with any qualified golf company that is involved in community golf.

Hardy said PGFA expects to be involved in several types of projects:

- Construction of new community golf courses where the land is owned by municipalities, counties, airport authorities or similar agencies.

- Courses developed as part of new residential communities, where the pri-

Continued on page 36

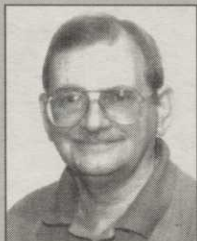
Owners group appoints Smart Buy executives

CHARLESTON, S.C. — The National Golf Course Owners Association has hired Mike Tinkey as director and John Coles as manager of the Smart Buy Program, the group purchasing program.

Tinkey has 20 years experience in the resort, club and hospitality business. He recently served as club president and chief operating officer at Hilton Head Island and Charleston-area resorts. Tinkey is president of Sports Management and Marketing Services, a consulting business spe-

cializing in golf and tennis resort and club operations. A recent NGCOA board member, he helped develop the Smart Buy Program.

Coles comes to NGCOA from Graphic Data Services, where he developed database, communications and accounting services for real estate and retail businesses. Coles created start-up planning and marketing strategy for tourist-related businesses in Charleston. He consulted with NGCOA for desktop publishing and database development the past two years.



John Coles

This is the one for The #1 Golf Co.

NAPA, Calif. — The new year has started with a rush for The #1 Golf Co., the San Rafael, Calif.-based company.

The firm has undertaken management of Vineyard Knolls Golf Course. Located here at the entry to Napa Valley, Vineyard Knolls is a private 9-hole course that has extensive facilities, including a clubhouse and pavilion. As part of the management of Vineyard Knolls, a new golf learning center will be created with it. The #1 Golf Academy has also come to life.

In addition to the Vineyard Knolls project, John A. Lisanti, president of The #1 Golf Co., has announced three more new ventures:

- Bill Parker, president of Parmee Development Corp., has named #1 Golf the project manager and overall coordinator of his proposed golf club to be located on 390 acres of rolling hills in the city of American Canyon at the base of Napa Valley. It will consist of an 18-hole signature golf course, a state-of-the-art golf range, teaching facility, clubhouse and amenities.

- The #1 Golf Co. has also entered into a joint venture and management agreement for an existing golf driving range located in the city of Newark, to be operated as The #1 Golf Center at Newark. When an extensive plan for expansion and improvement are complete, the Newark Center will be a state-of-the-art facility and one of the many teaching facilities for The #1 Golf Academy. The Newark Center is strategically located adjacent to San Francisco Bay and the eastern approaches to the Dunbarton Bridge.

- A lease agreement has also been signed with the city of Stanton in Southern California. The lease provides #1 Golf with the opportunity to develop an upscale golf training facility with 50-plus practice tees complete with all the latest technological advances. The 17,000-square-foot former school building and grounds at 10660 Western Ave. will house distributors of golf merchandise. Ground breaking is expected shortly, with a completion and grand opening date of July 4.

For additional information contact The #1 Golf Co. at 1-800-721-2060.

AGC takes over Ore., Calif. links

SALEM, Ore. — American Golf Corp. (AGC) has been awarded a long-term operating lease for the recently completed 18-hole Creekside Golf Club here, the first golf course constructed in Oregon's capital in the last 32 years. The Santa Monica, Calif.-based firm also secured the lease for EastLake Country Club in Chula Vista, Calif.

AGC was awarded the management contract at Peter Jacobsen-designed Creekside following the club's purchase by National Golf Properties, Inc. (NGP) and will continue to operate the course as a semi-private club. Public play will be phased out as the membership level grows.

Encompassing 160 acres within the EastLake Greens neighborhood 20 minutes from downtown San Diego, EastLake's course was designed by golf course architect Ted Robinson in 1991.

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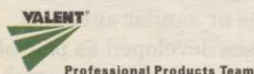
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USCCA

Continued from page 1

cars, driving range materials, etc. Members will determine what other products will be added.

USCCA will initially market its services to a 10-state region that includes Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, Pennsylvania, Virginia, New Jersey and New York. However, private clubs from any state will be accepted and Dykehouse plans to expand USCCA's recruiting efforts to the Southeast and Far West in the next few years.

Dykehouse expects to have the first product line — property liability insurance, possibly with a workers' compensation component — ready to unveil by the end of May. Future CAP programs will start with an advisory committee made up of representatives from member clubs who will determine the products and services to be offered in each program. Advisory committees will conduct a competitive bidding process to determine the manufacturer that receives final endorsement.

"The main thing we want to do is find out what clubs need and then get them the best deal possible on those products and services," Dykehouse said.

In addition to CAP, other programs include resource sharing, information exchange, golf travel, golf tournaments and pilot program development.

Existing associations, such as the Club Managers Association of America and National Golf Course Owners Association, view USCCA as a group purchasing company rather than a true association.

"The founder presented it to us as a group-buying situation," said CMAA Executive Director James Singerling. "They don't seem to be providing the full range of educational and professional services offered by a true association."

Dykehouse agreed, but left the door open for expanding USCCA's offerings in the future.

"We don't see a need for an educational component at this time," the former Michigan State University educator said. "The existing associations do a fine job at that. We want to get involved with areas the existing associations haven't addressed, such as group purchasing."

CMAA has avoided either endorsing or establishing group purchasing programs. In a letter sent to chapter officers regarding USCCA, Singerling noted a "potential for any organization to actually become the management company for the club when all of your purchasing and statistical basis for operation becomes part of their data base."

According to excerpts from the Association Law Handbook distributed with the letter: "Associations involved in group buying and selling programs should be especially concerned about two rules. First, participation in the programs should not be restrictive. Second, prices received or given should

not be discriminatory. If formed and run properly [however], association cooperative programs are effective in waging competition and do not raise the specter of restricting competition."

Singerling also noted the possibility of a group purchasing program running afoul of anti-trust laws and the need to seek legal advice before joining one. "In our opinion, independent relationships with suppliers are best," the CMAA director said.

Dykehouse said he was "surprised" and "disappointed" by CMAA's response.

"We've spoken with many at-

torneys regarding any legal problems," he said. "When they looked at what we are doing, they've all said it falls under free trade...We received some calls from general managers about the letter. They seem to be taking it with a grain of salt."

At first blush, CAP sounds similar to NGCOA's Smart Buy group purchasing program. The major difference is that USCCA is a for-profit business rather than an association controlled by its members, according to Smart Buy Director Mike Tinkey.

"We did a year-long study before starting this [NGCOA] pro-

gram," Tinkey said. "All the successful group-buying programs we found were run by associations. That included the ski industry, sporting goods retailers, hardware stores and many other groups. Associations seem able to do a better job at obtaining the lowest prices."

Dykehouse disagreed.

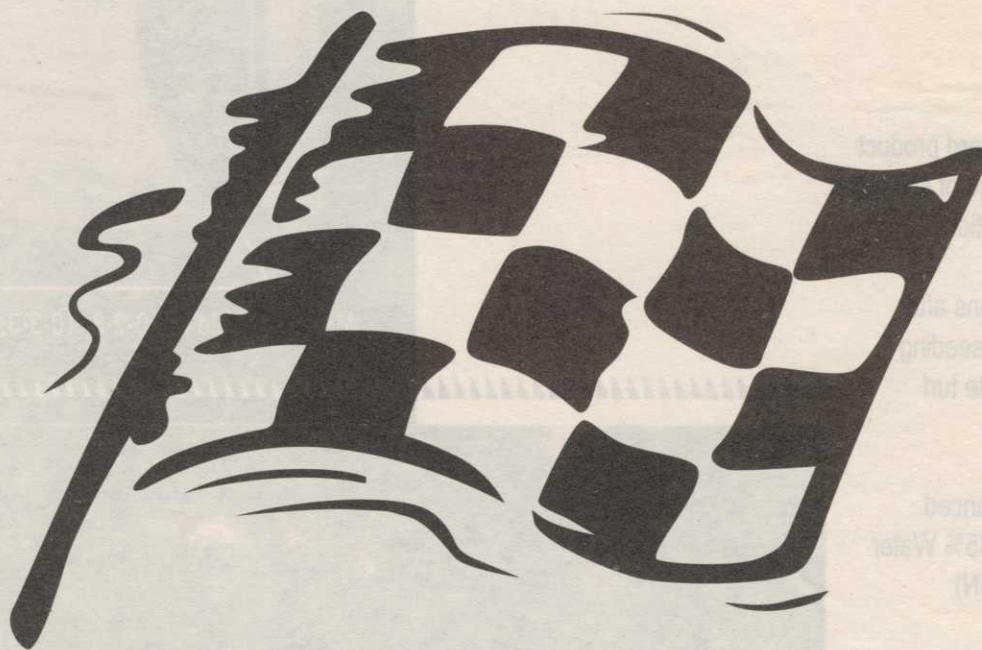
"Our sole source of income will come from dues and fees paid by our members," he said. "We will negotiate the best prices we can with manufacturers and suppliers and pass every bit of those savings on to our members."

Dykehouse expected to begin

soliciting memberships as soon as the insurance program is in place, probably late May. Charter memberships will be available through July 31. As an enticement to sign on early, the \$1,200 initiation fee will be waived for charter members. Yearly dues, which start at \$1,200, are guaranteed to rise no more than 10 percent annually for charter members.

Membership is expected to reach 800 clubs within three years with representatives from all 50 states within 10 years, Dykehouse said. Call 616-949-9411 for more information.

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Club Managers Assn. endorses chief operating officer concept

ALEXANDRIA, Va. — The Club Managers Association of America has endorsed the Chief Operating Officer (COO) concept (formerly the General Manager concept) for private clubs.

In today's competitive economy, clubs are finding they need to operate more as corporate businesses than social organizations, the 5,000-member organization stated in a recent press release. For that reason, it has become necessary to hire individuals who can function as the chief operating officer for club operations and

be able to advise the board on the best future interests of the club.

"The COO is liable for the entire club operation as well as ensuring a viable future for the club," said CMAA President Norman Spitzig. "In some instances, however, it is recognized that clubs may not be structured to function as effectively with a COO. In these cases, a management team consisting of the manager, golf course superintendent, and golf and tennis pros report to the board, making recommendations for the successful operation of the club."

While elected club officials formulate policy and provide guidance for the COO, they do not involve themselves directly in the management of personnel or operations. The COO is completely responsible for all phases of management and accountable to the governing authorities for the performance of the entire management team and for all operating results.

For information on the COO concept or to receive an information kit with job descriptions, sample organization charts, contracts, etc., contact Tamara Tyrrell at 703-739-9500.

Vermont coop

Continued from page 33

looking to spend a couple of nights at each place. Lee and I are friendly competitors."

Play increased at The Equinox course after the younger Jones spruced up the Walter Travis routing, but not to the level Bowden had hoped. Searching for ways to bring more golfers to what is generally not considered a golfing state, Bowden hit on the idea of marketing his and his buddy Williamson's courses together.

"We hoped that by offering four-day packages like this we'd attract people from farther away who would take advantage of fly-and-drive packages to visit Vermont," Bowden said. "If they were impressed enough with the courses, they'd hopefully extend their stays."

The resorts tested the package for a brief, two-week period last June. They sold 20 packages, encouraging enough to offer it again with expanded dates this year.

The promotional budget has been limited, about \$5,000 between the two facilities, Williamson estimated. Both resorts featured the offer in their newsletters, both of which are mailed to approximately 25,000 people. The resorts took out ads in several Florida newspapers, distributed press releases to newspapers and flyers to resort guests. A May press trip attracted many golf and travel writers to the two facilities.

"We haven't set any specific goals for the program," Williamson said. "But we expect to do a lot better than last year."

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Financing

Continued from page 33

vate sector developer is willing to donate a golf course site to the Foundation. In most such cases, developers should be able to take a tax credit for the fair value of the donated land.

- Acquisition or long-term leasing of existing courses by the Foundation for municipal agencies in order to preserve a recreational asset, save open space from more intensive development, or achieve other benefits.

To ensure that only economically viable projects are considered, PGFA will require in-depth market studies by qualified consultants. Sites or existing courses under consideration must lend themselves to reasonable development or acquisition costs.

For more information contact The Public Golf Foundation of America at 312-558-1386.

Skiing not so bad, super says

By PETER BLAIS

MANCHESTER, Vt. — Equinox General Manager Lee Bowden and Gleneagles Golf Course Superintendent Joe Charbonneau went at it for a couple years.

A cross-country ski center based at the golf course wouldn't do any significant turf damage and could make a sizable contribution to the southwestern Vermont resort's bottom line, Bowden argued.

Track marks and turf damage that could take weeks to repair could sully the reputation of the Walter Travis design that Rees Jones recently spent two years and \$3.5 million renovating into a world-class layout, Charbonneau countered.

"It was a hard sell with Joe and the owners," Bowden said of his efforts to get the go-ahead from his course manager and the ownership group, Equinox Resort Associates. "None of them [the owners] were skiers."

But all were business people and understood the potential profitability of using a seasonal facility on a year-round basis. Bowden pointed to the Woodstock Inn &

Resort's ski touring center 90 minutes' drive to the northeast. Woodstock opened its center years ago. The facility boasts 60 kilometers of groomed trails. The course clubhouse is the focal point, providing shelter, warmth, beverages, clothing and equipment for skiers.

Course damage has been minimal, said Woodstock General Manager Chet Williamson, Bowden's former employer and good friend. Trails are groomed through rough rather than fairways wherever possible. Aprons and greens are roped off and posted off limits to skiers.

The center contributes an average \$75,000 annually to the resort's bottom line. "That's allowed us to make improvements to the course and clubhouse we might not have been able to afford otherwise," Williamson said.

The occasional track mark visible in early spring quickly repairs itself, the general manager said. "Club members are sure to find one and blame it on the skiers," he added, "just like they blame all the unrepaired divots on hotel guests who use the course."

The owners and Charbonneau eventually agreed to introduce a cross-country program last winter.

"I've always been against skiing because my course is sacred to me," said Charbonneau, who proved himself a shrewd Yankee trader. "But I bargained for some extra things out of it, like 10,000 linear feet of cart path and a few extra people on my wintertime crew."

Fourteen kilometers of on-course trails were laid out with another 18 traversing nearby woods. Charbonneau helped the ski director develop the on-course trails, which were generally routed along cart paths and through outlying rough. "The key is good communication with the ski director and getting the superintendent involved in the routing," Charbonneau said.

The result was a profitable ski season, despite a meager snow year, and zero damage to the course. "I'm actually up for the prospects of a good snow year and lots of skiers," Charbonneau said.

GOLF COURSE NEWS



Skiers kick by the clubhouse at Woodstock Country Club



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CIRCLE #137

Ocean Course

Continued from page 3

Ocean Course back on the auction block.

Harris said there was tremendous domestic and international interest in the Ocean Course in the days leading up to the May 19 auction. Among the suitors were owners of pro sports teams and some wealthy individuals who saw this as a way to enter the golf business for the first time. But those potential buyers chose not to bid when they learned of VIT's and Way's continued interest.

"It was simply worth more to VIT than anyone else since it controls the other public courses and the hotel," Harris said. "VIT and Way were the primary bidders

from the start because of the vested interest they have in the future of Kiawah."

Some questioned why VIT would be interested in the Ocean Course since previous agreements reserved 60 percent of the tee times for resort guests. In essence, they contended, all VIT was getting for its \$27 million was access to the other 40 percent of the rounds and the deed.

"Now VIT controls the actual maintenance and operation of the course, too, which it wouldn't have done if someone else had bought it," Harris said. "Controlling the quality of the course is important."

Harris said VIT should close on the property by mid-July.

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"ESN has it all... easy dust-free application, very precise release of nitrogen and the most consistent, longest lasting performance I've seen from a fertilizer.

"Here at Shinnecock both the club management and grounds crew take great pride in being on the leading edge of course management. We also share a genuine concern for the environment. I applaud United Horticultural Supply for helping us meet our

goals with this smart new technology and for raising the standards for fertilizer performance and environmental stewardship."

As superintendent, Smith knows well the tradition of excellence that surrounds the course. It's a distinction learned from his father and grandfather, superintendents of Shinnecock before him, who together with Peter have dedicated more than 90 years toward the development and success of Shinnecock Hills Golf Club.

For more information on ESN precision controlled nitrogen, call (800) 847-6417.



Peter E. Smith
Superintendent
Shinnecock Hills Golf Club



United
Horticultural Supply

ESN is a trademark of Sherritt Inc.

CIRCLE #138

Brassie Golf

Continued from page 33

development, construction and membership marketing.

Horne will serve as president of Brassie and Brassie Interim President Gary Nacht as executive vice president/chief financial officer. Golfer Hale Irwin will continue as president of Brassie Hale Irwin Golf Design division and a director of Brassie. Gordon Ewart and Robert Atkinson, COPM's chairman and vice chairman, respectively, will retain their board seats and positions.

"The combined management talent created by this merger offers our shareholders a dramatic growth opportunity," Ewart said. "COPM will bring a wealth of proven management experience to complement Brassie's growing portfolio of owned, leased and managed facilities, and will provide greater access to acquisition and design opportunities. This merger is also expected to significantly enhance Brassie's ability to raise additional capital.

Added Fister, "Service, service, service is what we'll provide. The depth of our management team will make us a better company. Plus we'll have the capital available to aggressively pursue new properties. We have eight to 12 we're considering now. Knowing that we're willing to invest our own money should make our management services easier to sell to owners looking for a management-only arrangement, too."

Fister said a corporate meetings to discuss acquisition strategies were held in May. Daily-fee and semiprivate courses with potentially strong cash flows are expected to be the primary targets.

Initially the firm will seek new courses in markets it already serves, Fister said. Acquisitions are preferred, although Brassie will continue to sign management-only and consulting agreements.

Corporate agronomist Bobby Ellis, a 14-year COPM veteran, is expected to continue in that role with Brassie, Fister said.

The proposed merger is subject to regulatory approval and was scheduled to close in May. Consideration for the purchase of Resort Golf Clubs International was included in the issuance of shares for COPM.

BRIEFS



CROCKETT JOINS CLEARY

Jim Crockett, previously general manager of Imperial Nurseries, Inc. of Granby, Conn., has joined the W. A. Cleary Chemical Corp. as market development manager, Horticulture Products. Crockett holds a master's degree of science from Auburn University. He was also employed by Chemlawn Corp. In his role at Cleary, Jim will direct the development of existing and future horticulture products into the greenhouse, nursery and retail markets.

MERIT REGISTERED IN NY

Merit insecticide has received registration in the state of New York, including Long Island. Merit is manufactured and marketed by Bayer Corp., formerly Miles, Inc. A certificate of pesticide registration was issued by the N.Y. Dept. of Environmental Conservation. Under the terms of the registration, all three Merit formulations — Merit 75WP, Merit 75WSP and Merit 0.5G insecticides — are accepted for use on turf, landscape ornamentals and interior plantscapes throughout the state of New York, including Long Island.

AQUATROLS HIRES WANZOR

Tracy Moore, president of Aquatrols, announces the newest addition to the Aquatrols family. Scott Wanzor, of Duluth, Ga., is the new southeast territory manager. "We're excited to have Scott on board, and look forward to his education and experience contributing to the company's growth." Wanzor has over 18 years of turf and ornamental experience. He is a graduate of the University of Georgia.



Scott Wanzor

CHANGES OF SCENE

SOMERSET N.J. — Lofts Seed, Inc. has relocated its corporate offices and Research Department here: 347 Elizabeth Ave., Suite 101, Somerset, N.J. 08873. By phone, Lofts can be contacted by calling 908-356-8700 or 1-800-526-3890 (outside N.J.); or faxing 908-356-5607. The Research Department can be reached by faxing 908-560-0884.

The phone number for Fort Collins, Colo.-based Aqua Engineering, Inc. has been assigned a new area code. The firm may now be reached by dialing 970-229-9668; or faxing 970-226-3855. The mailing address remains 200 Vermont, Fort Collins, Colo., 80525.

GOLF COURSE NEWS

GCSAA changes '96 show hours

Sun., Feb. 11

Show Hours:
9 a.m. - 3 p.m.

Monday eliminated;
short day Sunday;
events pushed back
earlier in the week

Mon., Feb. 12

Show Hours:
None

By HAL PHILLIPS

LAWRENCE, Kan. — The commendation has been nearly unanimous as exhibitors react to new trade show hours announced by the Golf Course Superintendents Association of America. In short, distributor day has been moved to Friday morning (9 a.m. to 1 p.m.), superintendents will be allowed on the floor Friday at 1 p.m., and the Monday hours have been eliminated altogether. These changes will take effect at the association's 1996 International Conference and Show in Orlando, Fla.

"I think it'll work," said Don Hepler,

president of Professional Turf Specialties, Inc., a distributorship based in Champaign, Ill. "The only problem I see is, we have a lot of meetings that traditionally been scheduled for Friday morning. They're basically forcing us to come in a day earlier. But if they eliminate the Monday hours, it should work out fine."

"It'll be a busy three days, but then it always is."

The applause has been nearly universal with regard to closing up shop Sunday afternoon at 3 p.m., and junking the routinely slow Monday hours. On Monday

Continued on page 40

DowElanco fails to report; EPA levies hefty fine

By HAL PHILLIPS

WASHINGTON, D.C. — The federal Environmental Protection Agency (EPA) and DowElanco have settled on a \$732,000 penalty against the Indianapolis-based firm for failing to report to the agency information on adverse health effects over the past decade involving a number of pesticides, including chlorpyrifos (brand name Dursban).

The penalty is the largest to date under section 6 (a) (2) of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), which requires pesticide registrants to submit to EPA, in a timely manner, any additional factual information regarding unreasonable adverse effects of their registered pesticide products.

"DowElanco views the settlement as an essential means of resolving the issues raised and of maintaining a good working relationship with EPA," reads a statement released by DowElanco. "We take product stewardship and compliance with U.S. laws and regulations very seriously, and we want our efforts in these areas to meet or exceed the EPA's expectations. We

Continued on page 41



NEW PRODUCT OF THE MONTH

John Deere's new 22 Utility Trailer is a low profile, greens mower hauler that allows operators to leave the transport wheels in the maintenance building. The thermal formed insert has depressed settings for one or two greens mowers. A rubber composite liner covers the tailgate ramp, protecting the transport drum, bedknife and roller during loading and unloading. With its payload capacity of 1000 lbs., low profile and turf tires, the 22 Utility Trailer can haul practically anything without disturbing the surroundings. The trailer's box weighs 240 lbs. empty and has a box capacity of 10 cubic feet. The 22 is compatible with Gators, the 1800 Utility Vehicle, larger lawn and garden tractors and most other utility vehicles. It can easily be attached to most equipment with a rear hitch. For added versatility, the greens mower insert can easily be detached by removing two screws, leaving a standard trailer suitable for virtually any hauling task. For more information, contact Deere at 919-832-7421. For new products, see page 42.

West Coast Turf purchases Warren's in Calif.; Ames absorbs SE Plastics

WINCHESTER, Calif. — With its acquisition of the Warren's Turf operation here, West Coast Turf has added another arrow to its increasingly replete quiver. The Warren purchase, finalized May 1, is 1995's first significant move for Palm Desert-based West Coast Turf, which bought out Foster Turf Products and opened a Las Vegas office in 1994. The 200 acres here — just one of many Warren's locations — feature three types of hybrid Bermudagrass, as well as St. Augustine, and tall fescue turfgrasses. The newest West Coast Turf office serves Southern California's Inland Empire. "The Winchester location has both warm and cool-season grasses, and securing that inventory will enable us to broaden our product line," explained John Foster, president of West Coast Turf. West Coast specializes in the application of warm-season grasses on golf courses and features Big Roll, thick-cut and washed sod shipped nationwide.



ACQUISITIONS

PARKERSBURG, W.Va. — Ames Lawn & Garden Tools has acquired the assets of Southeastern Plastics, Inc. of Byesville, Ohio, in a move that will double Ames' injection molding capacity and help meet the growing worldwide demand for its polyconstructed hose reels, lawn carts and other lawn and garden products. The announcement was made by President & Chief Executive Officer Rick E. Keup, who said all injection molding operations at the Byesville facility would be under the responsibility of Ira R. (Dick) Phillips, Ames' senior vice president, operations. Ames,

the largest manufacturer and distributor of non-powered lawn and garden tools in North America "has long been the only major lawn and garden tool manufacturer in this country with in-house plastics molding capabilities [at its injection and blow molding plant in Elyria, Ohio]," stated Keup. Ames plans to expand the Byesville facility, which currently employs 160 people.

Heritage unveiled; Bonzi label changes

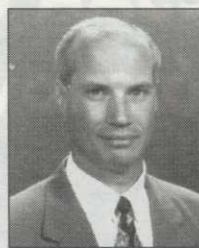
WILMINGTON, Del. — Zeneca Agrochemicals, which operates as Zeneca Ag Products here in the United States, will spend \$34 million to build manufacturing facilities for its new fungicide, called Heritage and coded 5504. According to Vern Hawkins, fungicides business lead for Zeneca, the new facilities should be completed by the third quarter of 1996. The company anticipates receiving its first registration on Heritage in time for the 1997 season.

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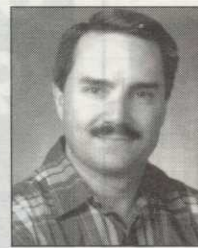
MIDDLEBURY, Conn. — The Environmental Protection Agency has approved the reduction of the restricted entry interval (REI) for Bonzi plant growth regulator from 24 to 12 hours. Notification of individual states is under way. Bonzi is a tool in the production of high-value plants for the ornamentals market. It is used to reduce internode elongation in virtually all container-grown ornamental plants produced in enclosed commercial structures, resulting in more marketable, compact plants.

Pesci, Mroz move up at Ransomes America Corp.

LINCOLN, Neb. — Paul Pesci has been promoted to vice president of sales and marketing for the Turf and Professional Lawn Care divisions here at Ransomes America Corp. In addition to developing sales and marketing plans for the Ransomes, Cushman and Ryan product lines, Pesci will also oversee parts support activities, determine pricing strategies and supervise sales/marketing personnel.



Paul Pesci



Mark Mroz

In other Ransomes news, Mark Mroz has been named service training coordinator. In his new position, Mroz will oversee all service training here at Ransomes headquarters, involving both hands-on and classroom instruction on the maintenance and repair of Ransomes, Cushman and Ryan equipment. Typical attendees include service personnel from industrial, turf and professional lawn care dealerships.

GCSAA show hours

Continued from page 39

mornings in years past, the only noticeable buzz on the floor was the dreaded "Velcro symphony," as exhibitors got the jump on tearing down their booths.

"With a trade show, traffic will always drop off the final day," said Ron Skenes, manager, Marketing Services at E-Z-Go. "I commend the association to try some new things and experiment with ways to make the show more productive. They're looking for a good mix to make it successful for all the parties involved. I think that Friday is going to be a more productive day than it has in the past... The superintendents are all in town that day. Friday morning was usually used to polish up the booths. That will just have to be done before hand."

"The only problem with the Sunday situation is the move out: Some exhibitors will have to begin tear-down on [convention workers'] double time. For me, there's an easy solution to that. I can take out the golf cars on Sunday and tear down on Monday. But other exhibitors may have more of a problem with that."

...

In other GCSAA news, Deena Amont has been hired as director of education, and Cynthia Kelly has been hired as government relations manager. Both started at GCSAA headquarters in mid-May.

Amont comes to GCSAA from Cook College, Rutgers University. Amont served as assistant director of its continuing education program, directing the two-year Rutgers Professional Golf Turf Management School. Her duties will be to redesign, promote and administer GCSAA's continuing education program that will include teleconferencing, seminars, conference workshops, self-guided instruction, video and booklet development, and information technology.

Kelly comes to GCSAA from the American Association of Blood Banks in Alexandria, Va., where she served the past six years as staff counsel and director, government affairs. Her new responsibilities will be to keep association members apprised of environmental issues and government regulations.

GOLF COURSE NEWS

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CIRCLE #139

Head protection pushed in Minnesota; rolling out the grass carp-et in California

According to a letter circulated to superintendents and other turf groups in Minnesota, the state OSHA plans to redouble its efforts with regard to head protection and **roll-bar enforcement**:

"Rollover protection and seat belts are required on all motorized, self-propelled vehicles and mowers that are equipped with a 20 horsepower motor and above," reads S. 182.653, Sub. 2. "Four-wheeled vehicles and mowers operating on flat terrain only will be exempt. Three-wheeled vehicles have no exemption.

"Any employee exposed to flying objects or subjected to possible injury by flying objects needs to wear head protec-

tion (such as a hard hat). Employers are required to provide this head protection for their employees."

The letter also makes it clear that golf courses are a primary focus of the two enforcement initiatives.

Meanwhile, superintendents in California are leading efforts to legalize the use of grass carp as an **aquatic weed control** method on Golden State courses. The California GCSA successfully pushed for introduction of SB 157, which would make it legal to introduce



triploid (sterile) species of white amur, commonly known as the grass carp, into golf course ponds and lakes. Use of the fish in impoundments that feed into the Sacramento or San Joaquin rivers would be delayed until 2001, assuming no harm comes from use of the white amur in other areas before that time.

Also in California, hovering mower distributors received an emissions setback from the California Air Resources Board (CARB), whose written directive denies a

request that **hovering mowers** be exempted as a hand-held, two-stroke device. CARB spokesman Jerry Martin indicated the Flymo was not a "true necessity" for golf courses because of the availability of string trimmers.

Also, **Kawasaki USA's** Engine Division has announced the receipt of certification by CARB for its FB460V engine, bringing the total number of Kawasaki engine models certified to meet the emissions requirements to 12. The Kawasaki FB460V, a 12.5-horsepower, four-stroke vertical shaft engine, has been certified under the rigid California standards, which are expected to be adopted nationwide in the future.

DowElanco settles

Continued from page 39

were concerned to learn that we had not met agency expectations in the case at hand. We have made a careful evaluation of the reporting process by which we provide information to EPA and have committed additional resources in order to avoid a repetition of these issues in the future."

According to EPA, DowElanco reported 249 incidents to EPA after the 30-day time period specified in EPA guidance. EPA's review of these incidents indicated DowElanco had not been reporting adverse effects incidents that it learned of through personal injury claims and lawsuits. After EPA sent DowElanco a "show cause" letter, the company submitted information on additional incidents.

The bulk of the information arose from personal injury claims filed against DowElanco relating to chlorpyrifos. Reported adverse effects, which span about a decade, included cases of alleged peripheral neuropathy and other chronic neurological effects. Peripheral neuropathy involves the nerves of the arms and legs.

"EPA asserts," the company statement continues, "that DowElanco was late in submitting reports providing notice of allegations drawn from its claims and litigation files. DowElanco voluntarily disclosed allegations from these files and has cooperated fully in providing information in response to EPA requests. This information has been provided even though it is drawn from allegations of individuals seeking compensation and is not regarded by DowElanco as factual information.

"Along with our submission of claims-related allegations, DowElanco also provided the Agency with a safety assessment related to these claims. Based on this assessment, we remain confident of the wide margins of safety that exist for our products under conditions of use."

EPA's Dr. Lynn Goldman noted that the incident reports obtained in this actions are particularly important because EPA is currently reviewing the registration for chlorpyrifos.

GOLF COURSE NEWS

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The glasses can be ordered by sending \$9.95 plus \$2.50 for shipping and handling to DRL Company, P.O. Box 7471, Bloomfield Hills, MI 48302-7471.

Michigan residents add 6 percent sales tax.

CIRCLE #302

Sostram unveils flowable Echo 720

Sostram Corp., manufacturers of the Echo line of fungicides, has introduced a new, more concentrated Echo 720 Turf and Ornamental flowable chlorothalonil fungicide.

With six pounds AI (active ingredient) per gallon, Echo 720 delivers more disease control activity per ounce with less material applied per treated area. This more concentrated formulation provides improved cost effective-

ness in the way of easier, labor-saving handling and less storage space requirements.

Echo 720 is labeled for use on a wide variety of turf-grasses and ornamental plantings to control dollar spot and large brown patch, among others. For more information, contact Sostram Corp., 70 Mansell Court, Suite 230, Roswell, GA 30076; or call 404-587-1032.

CIRCLE #303

Green Super Striper, new from Fox Valley

Fox Valley Systems, Inc. has introduced its new 1995 Green Super Striping Machine. The Super Striper is now able to produce sharper 2-inch to 5-inch with the help of the new self-orienting spade tip on the compatible aerosol paint cartridges. No matter which way the can is placed into the striper, the spade tip is ready to produce a beautiful sharp stripe.

The 1995 Super Striper is the only striping machine with a speed indicator and weighted windscreen. Height adjustments and a side striper attachment for curbs are other included innovations in the new green striping machine. Just press the trigger and walk. Each paint cartridge covers approximately 200 lineal feet. For more information, call 1-800-323-4770 and ask for Department R821; or write to Fox Valley Systems, Department R821, 640 Industrial Drive, Cary, IL 60013.

CIRCLE #301

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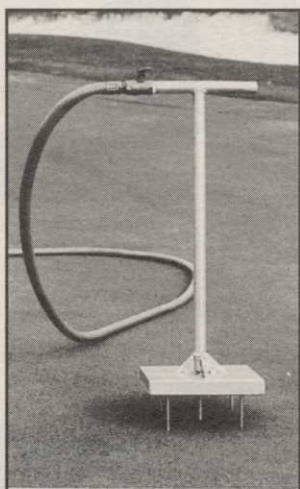
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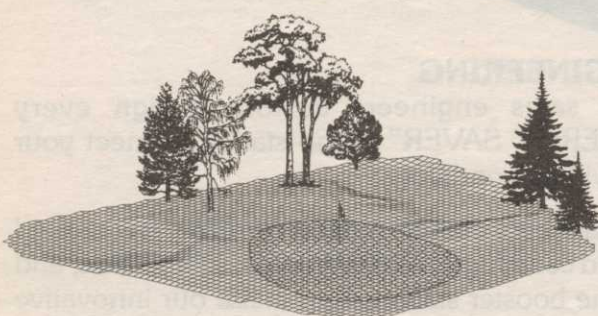
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CIRCLE #143

Advanta introduces Cannon, Hector

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Hector Creeping Red Fescue from Advanta is a fine-textured, medium-dark green variety with strong seedling vigor. Hector provides excellent ground cover and density throughout the year. For more information, contact Advanta at 503-967-8923.

CIRCLE #304

Golf Course Marketplace

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Ocean City hitches its regional growth to phenomenon of public-access golf

Continued from page 46

tor of the Ocean City Chamber of Commerce, said having a variety of courses will be the key to continued success in promoting golf in the area. With an increasing number of golf courses comes the variety which will bring golfers back to the resort area again and again, he said.

"There is a need for more golf courses. You can't get a tee time at a lot of them now and in the summer you're completely shut out," he said.

GOLF COURSE NEWS

How many new courses can the area handle? FauntLeRoy said he doesn't know what the area can absorb. But any additional facilities can do nothing but help continue growth in the golfing industry, he said.

Increased golfing activity in the resort doesn't just mean business for course owners, but will increase business for hotels and motels, restaurants and the retail shops in the area also, Smith said.

Golf promotes business in the

shoulder months for Ocean City and acts as one more amenity which complements the resort's beaches, but does not place a great demand on the community's resources, she said. It doesn't hurt that the resort lies along the beaten path for visitors from the major metropolitan areas of Washington, D.C., Baltimore, Wilmington, Delaware and even New Jersey and New York.

Nurturing the relationship between the golf courses and the

associated businesses of Ocean City, however, is an on-going process.

In the spring and fall, hotels, which often offer golf packages, are filled with visitors. But when the beach season rolls around, golfers sometimes get bumped by hotels for the established tourist trade of Ocean City.

"We've had a time convincing some of the hotels that golfers are just as good customers as those people who have been coming to stay at the beach for years,"

Smith said. "That has been one of our main challenges."

She credits the efforts of both the golf courses and the Ocean City community as a whole for the success the area has had in establishing itself as a new golf mecca.

"There's a remote possibility Ocean City could become like a small Myrtle Beach, but I really don't think we want to be the next Myrtle Beach," Smith explained.

"We're Ocean City, Maryland, we're growing and we're glad to be what we are."

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25 — Midwest Regional Turf Foundation Regional Turf Field Day in West Lafayette. Contact 317-494-8039.

26 — University of Georgia Turfgrass Field Day in Griffin, Ga. Contact 404-228-7300.

26-28 — Turf Producers International Summer Convention in Omaha. Contact Doug Fender at 800-405-TURF.

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August

2-3 — Minnesota Turf and Grounds Foundation Expo '95 in Mendota Heights, Minn. Contact Scott Turtinen at 612-473-0557.

6-8 — Georgia GCSA Summer Conference at Sea Palms Resort on St. Simons Island. Contact Karen White at 706-769-4076.

16 — Ohio Turfgrass Foundation Field Day in Columbus, Ohio. Contact Julie Guenther at 614-261-6750.

23 — Turf Talk '95 in Chandler, Ariz. Contact Garden West at 602-233-2966.

September

7-8 — Southwest Horticultural Trade Show in Phoenix, Ariz. Call 602-966-1610.

November

4-7 — Georgia GCSA Annual Meeting at Jekyll Island. Contact Karen White at 706-769-4076.

9-10 — Golf Course Expo in Orlando, Fla. Contact Golf Course News Conference Group at 207-846-0600.

14-16 — Midwest Regional Turf Foundation Turfgrass and Ornamental Seminar in Lafayette. Contact 317-494-8039.

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6-8 — Minnesota Turf and Grounds Conference and Show in Minneapolis. Contact Scott Turtinen at 612-473-0557.

* For more information contact the GC-SAA Education Office at 913-832-4430.

Hawkins comment

Continued from page 11

should not be limited to wetlands and protected habitats, protected wildlife, protected or regulated waterways, archaeological or cultural resource sites and/or unique natural features or conditions.

A proper site assessment identifies those conditions that have regulatory and site-planning ramifications and should not include extensive or costly studies at this stage of the planning process. Gaining this level of understanding of the site, its potential limitations and regulatory requirements, the developer can make educated planning and permit requirement decisions while managing this level of financial risk.

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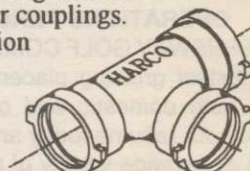
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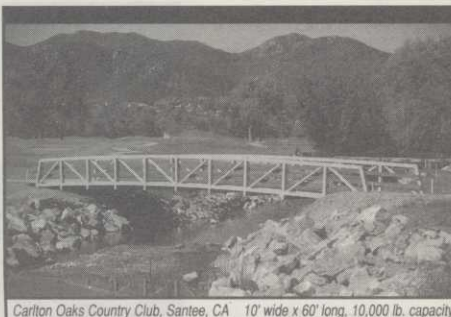
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Phillips comment

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urban areas often do) over and around this modest, middle-income municipality.

During a late-afternoon round, my four-some witnessed the following: A young couple and baby roaming the 6th and 7th fairways; four boys and their bikes cutting across the 9th on their way home from school; a shabbily dressed, middle-aged man (some might even have called him a vagrant) quietly reading John Steinbeck's *Cannery Row* on the 14th tee; and at least seven dogs happily leading their masters through their after-work walks.

No disruption. No adolescents riding their knobby tires across the putting surfaces. Just golf and community at dusk. The green fee was \$20 and, come January, Hyde Park residents enjoy some of the best cross-country ski trails and sledding hills in Greater Boston.

Sounds like a park to me.

In many ways, Gov. Whitman shouldn't be faulted for not realizing that fully two-thirds of the golf courses in America are open to anyone (of course, you have to pay — just as you have to pay to attend a sporting event, or many state parks for that matter). Similarly, the governor shouldn't really be expected to know why Hyde Park residents — and thousands of other communities across the country — consider their golf course to be part of the local park system.

Part of Whitman doesn't want to know because she's worried about her public image and how it might affect her political viability. Yet, it's even more likely that she understands none of this because the golf industry has done a damn poor job of passing along the facts.

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Public-access supply meeting demand in Ocean City, Md.

By ROTA KNOTT

OCEAN CITY, Md. — With eight public-access golf courses in the works, including four within planned communities and two more 18-hole additions at existing clubs, this region on Maryland's Eastern Shore has invested heavily in the golf destination business.

Eight courses are already flourishing in and around the resort town. First to join them will likely be the new 18 at The Beach Club, which was originally planned as a 36-hole facility. Hunt Crosby, a spokesman for facility, said it's not only feasible but necessary to proceed with the additional 18 holes, which should be ready for play by July 1996.

"We anticipate the growth of golf lo-

cally to continue," Crosby said. "There has been substantial growth already. The number of rounds of golf played here increases by 20 percent each year."

Ed Lorenz, head pro at the 18-hole Bay Club Golf Course, said his course is planning an expansion to meet demand. The Bay Club remains in the permitting process for construction of another 18. Lorenz said the club hopes to have the new course up and running by the spring of 1997.

"Depending on who you listen to, there is a tremendous need for tee times," he said. "Our predictions as to when to go forward are linked to the profit of the golf course. And now looks like the time to move."

Andy Loving, PGA professional at Ocean City's municipal course, Eagle's Landing, said business has picked up steadily since it opened in 1991. It currently operates at near full capacity. "I really think building new courses will be good overall," said Loving. "People are coming. They know about Ocean City; they just can't get on the courses much of the time."

The 36-hole Ocean City Golf and Yacht Club, the resort's first golf course, is making some minor improvements to keep pace. River Run, a golf community located just outside the resort, recently completed improvements to its track, including rebuilding three greens.

The area's other established golf course community, Ocean Pines, has tentatively planned a second set of championship links, pending a referendum vote. If approved in the referendum, work on the new Ocean Pines course could start by this fall.

Three new golf communities — Lighthouse Sound, Kiddle Farm and Woodcock Farm — are in various stages of the planning process. Riddle Farm will boast two separate 18-hole courses, one public and one semi-private, covering approximately 380 acres. Plans for Woodcock Farm include an 18-hole golf course, also. Dual proposals, one containing 18 holes of golf and the other calling for 27 holes, have been approved for Lighthouse Sound. The property owners have not yet made a decision as to which plan to pursue.



The double-greened 9th and 18th at The Bay Club, a Russell Roberts design in nearby Berlin, Md.

Course cooperative, Golf Getaway, has promoted tourism and continued growth

By ROTA KNOTT

OCEAN CITY, Md. — Growing golf on Maryland's Eastern Shore hasn't been an easy task, but the hard work of promoting this area as a golfing destination is finally paying off.

Plans are currently in the works for eight new golf courses, seven championship and one executive, all of which may come on-line over the next two or three years. In addition, both major and minor improvements are underway at several of the eight existing courses.

Those involved in the golf industry are confident the area can handle all the proposed activity. Indeed, some feel the area may require even more courses to keep up with the demand for tee times.

Sandi Smith is manager of Ocean City's Golf Getaway, an organization established in 1991 through a cooperative effort of the five courses in existence at that time to promote golf in the area. She said the game has been on a continuous upswing locally.

"Growing golf is very exciting. There is a definite need for new courses," Smith said. "A demand has been created by the sheer number of golfers who come here to play now instead of going elsewhere."

Smith said the goal of Golf Getaway, which is expanding its membership to include new courses as they open, is to band golf courses with the local community to promote Ocean City as a golf destination.

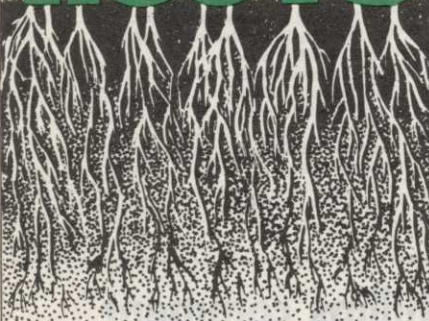
The organization is funded and governed by its membership, which includes all the existing courses in the vicinity of Ocean City as well as several within a 30-mile radius of the resort.

Golf Getaway, in conjunction with the town itself, promotes the resort golf facilities nationwide through advertising, utilizing both the print media and television sources, press releases and sponsoring local golf tournaments.

Alex FauntLeRoy, executive direc-

Continued on page 43

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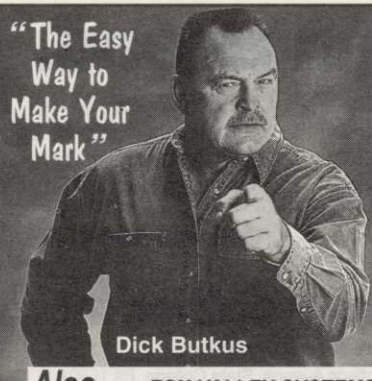
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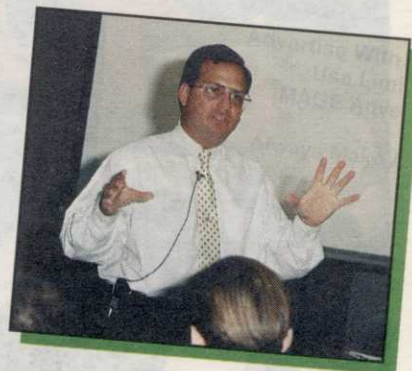
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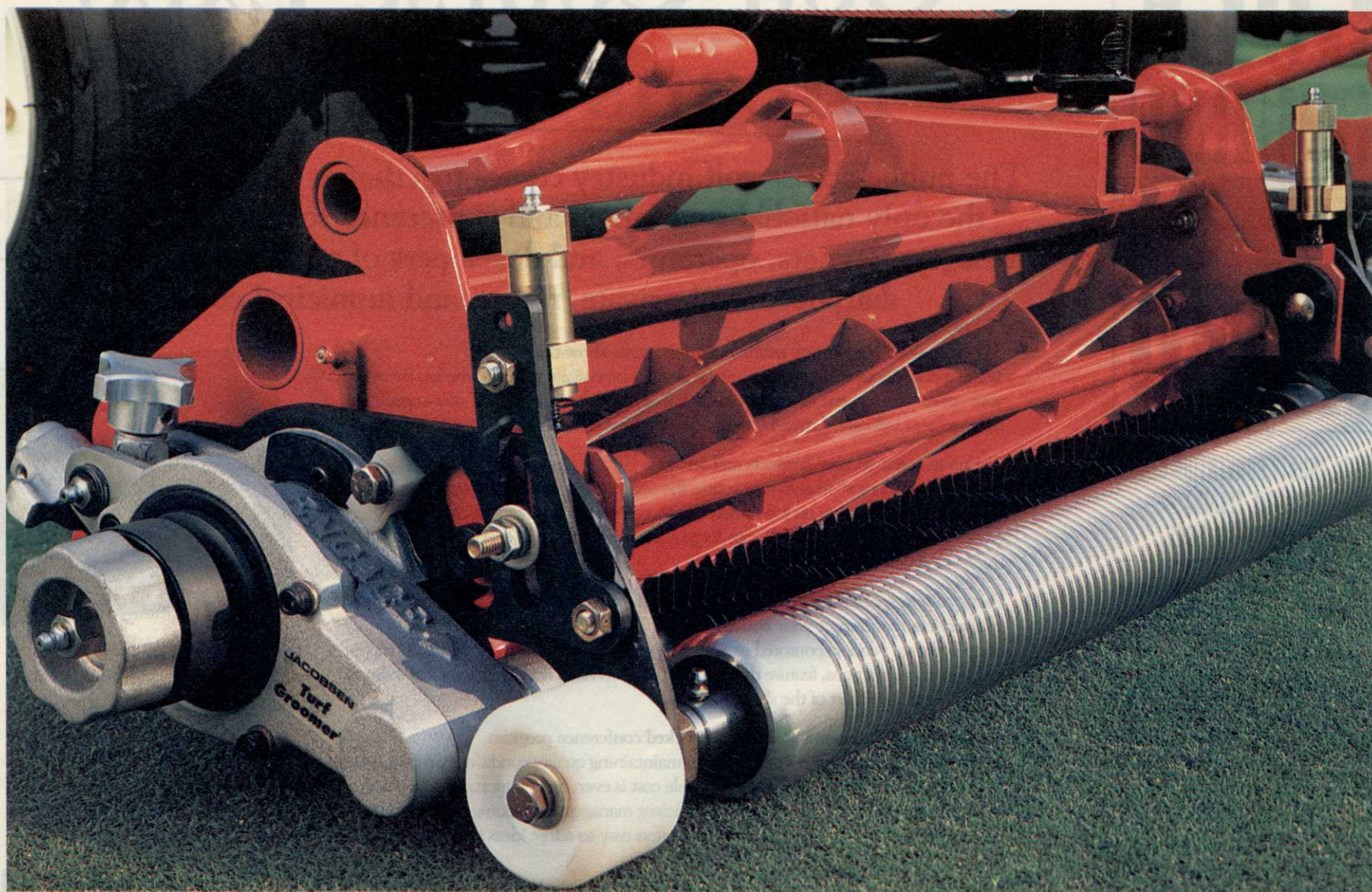
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ORLANDO, FLORIDA
NOVEMBER 9-10, 1995



The greens are running fast today. Fortunately, so are you.

Nobody wants to spend more time than necessary trying to keep greens looking great. That's where the Greens King™ IV comes in.

The most popular greens mower in the world is uniquely designed to make a green look outstanding in short order. With Greens King IV, you get exclusive features like Turf Groomer®, the only true greens conditioner. Turf Groomer not only increases green speeds up to 25% without lowering height of cut, it also provides truer, healthier greens. Plus, you'll have less compaction thanks to the lightest footprint in the industry. When it comes to mowing muscle, choose the 16.5 hp diesel, the popular 16 hp Vanguard™ gas or the new Greens King IV Plus with 18 hp

Vanguard gas engine and power steering. Other exclusive features include fully floating, pivoting reels that steer through turns without scuffing or marking. Plus, individual reel control and power backlapping that keep reels sharp with less work. Ask your Jacobsen distributor for a demonstration today.

THE PROFESSIONAL'S CHOICE ON TURF.



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