

GOLF COURSE NEWS

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INSIDE

Winter Kill

Mid-Atlantic superintendents are reporting huge turf loss following the toughest winter in 16 years 17

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Action in Asia-Pacific

Golf Asia '94 is history. Architects are busy (page 42) but questions about the show's future remain 59

Survey: Supers applying fewer, safer pesticides

By HAL PHILLIPS

More than 60 percent of golf course superintendents surveyed by the Gallup Organization indicated they have altered their maintenance practices compared to three years ago, citing pressure from government regulation, economic factors and environmental concerns.

The 1994 Sandoz National Environmental Poll, conducted by Gallup, contacted a random sample of 2,050 professionals who apply pest control products: farmers, roadside vegetation managers, lawn care workers, pest control operators, mosquito district managers and small animal veterinarians. This year's biennial survey included, for the first time, golf course superintendents.

Question: Do people in your industry

Continued on page 61

Sandoz National Environmental Poll 1994

Superintendents Responding

Compared to five years ago, are you making fewer applications of pest control products?

Yes — 61%
No — 36%

Do people in your industry use safer pest control products when available?

Always — 70%
Sometimes — 27%
Not Usually — 2%
Never — 1%

Compared to three years ago, are you doing things differently regarding use of pest control products?

Yes — 67%
No — 30%

Pesticide fate model may be inaccurate

By DR. MIKE KENNA

GRIFFIN, Ga. — Researchers here at the Georgia Agriculture Experiment Station have suggested that one of the mathematical models used by environmental regulators and scientists to predict the fate of pesticides will need a major overhaul before it accurately represents what happens on golf course turf.

"Results indicate that the GLEAMS model, with the defined parameters of our study, overestimated the actual values received from lysimeters for the potential of 2,4-D to move through putting green root zones," reported Dr. Al Smith, University of Georgia.

The GLEAMS (Groundwater Loading Effects of Agriculture Management Systems) mathematical model is commonly used to help identify chemical and soil properties, as well as plant and meteorological factors influencing the transport

Continued on page 28

Bringing new meaning to 'earth moving'

By HAL PHILLIPS

GLENDALE, Calif. — While some golfers claim their home course plays differently each time out, Shoal Canyon Golf Course almost certainly will.

Currently under construction, Shoal Canyon — an American Golf Corp. project designed by Williams, Gill & Associates — isn't your typical 18-hole, short course built on a mountain-top landfill. Portions of the 60-acre site are sinking at rates of up to six feet per year.

The recent Los Angeles earthquake dropped one green down a full foot overnight, according to Dale Siemens, president of Fresno-based Daylen Inc., which is

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THE NEW, CAREFREE ATTITUDE AT TELLURIDE

The newly formed management firm, Carefree Resorts, is upgrading its three facilities: The Peaks at Telluride (above), Carmel Valley Ranch and The Boulders. Carefree executives indicate they are actively seeking new additions in Mexico, Hawaii and the Caribbean. For story, see page 54.

Pooling results in huge workers' comp savings

By PETER BLAIS

Some Ohio course operators are enjoying an 83-percent reduction in their workers compensation insurance costs because of legislation passed in the Ohio general assembly and the efforts of the state's golf course owners association.

Bills authorizing the pooling of similar businesses for insurance purposes have

been authorized in 40 states, according to Charles Freutel, national sales manager with the Frank Gates Service Co., a research and benefits consulting firm. This grouping allows members to obtain lower workers' compensation rates than they could individually.

Golf course owners associations in Ohio and South Carolina have taken advan-

tage of the legislation to offer a reduced-rate program for their members, Freutel said. The Pennsylvania state association is considering such a program, he added.

"There may be others out there as well that I'm just not familiar with," said Freutel, whose company reviews applicants for the Ohio Golf Course Owners

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TPC SUPERINTENDENT OF THE YEAR

Gary Myers (right), seen here with Tournament Players Club Director of Maintenance Cal Roth, has been named the top superintendent in the TPC system. See page 20.

COURSE MAINTENANCE

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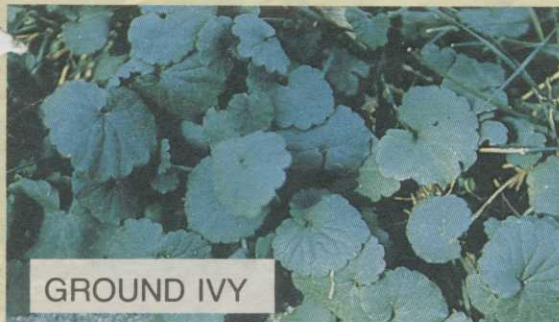
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environmental stewardship and reduce their chemical costs.



Everett Mealman
Chairman and
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The *environmental age* weed control program being used by Roger Albrecht is typical of progressive turf professionals.

Albrecht is president of Nitro-Green Corporation, which has 38 lawn care franchisees scattered over 15 different states, and he manages two locations in California for his own hands-on experience.

"Our goal is to eliminate all broadcast spraying of herbicides on the ornamental turf we manage, and replace it with spot treatment as necessary," says Albrecht. "We want to be proactive on environmental issues and be able to assure our customers that we are using the absolute minimum requirement of chemicals."

Albrecht goes on to explain that such a program takes time to implement because

the turf needs to be so healthy and thick that weeds cannot easily germinate.

"The elimination of the broadcast applications of pre-emergent herbicides is the critical step," says Albrecht, "because, no matter what, some crabgrass is going to appear, and since crabgrass is a major cause of complaints, we must be able to eliminate it fast with no discoloration."

Trimec Plus provides the safety net that enables Albrecht to eventually eliminate broadcast applications of pre-emergent herbicides. "We have absolute confidence in Trimec Plus to handle any crabgrass or nutsedge that shows up," says Albrecht.

And, of course, the same spot sprayer filled with Trimec Plus that Albrecht uses to control crabgrass and nutsedge also controls the other grassy and broadleaf weeds that can germinate throughout the year. "Having *one* herbicide for *all* of our spot treatments is a major factor in our program," says Albrecht.

But if Trimec Plus is ideal for spot treatments, it is also unsurpassed for broadcast applications when the need exists. Listen to George Toma, the executive turf consultant for the Royals, Chiefs, and NFL:

"My son, Chip, the groundskeeper for the Truman Sports Complex, used broadcast applications of Trimec Plus on the out-of-sight, unirrigated perimeters of the complex which was loaded with every conceivable weed, and Trimec Plus

absolutely took out everything except the bluegrass."

According to Toma, it would have taken four different selective herbicides to do the job that Trimec Plus was able to do . . . but even more important, Toma says that Trimec Plus did a better job on all of the individual species than a narrow spectrum selective could have done.

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HERBICIDE

771-293

CIRCLE #101

NEWS IN BRIEF

PALM BEACH, Fla. — An alligator was trapped and killed in mid-April at Palm Beach Polo & Country Club here after the reptile bit a diver attempting to collect golf balls from an on-course pond. The diver was hospitalized with a puncture wound in the foot, said club officials. Lee Wilson, a licensed trapper, was called in to apprehend the 350-pounder.

...

SCOTTSDALE, Ariz. — With a grand opening slated for January 1995, construction on the 18-hole, par-72 Legend Trail golf course and its 6,000-square-foot clubhouse will begin immediately. Formerly named Desert Ranch, developers have sold the golf course property within the 573-acre Legend Trail community project to New York-based Ziff Communications and golf professional Al Mengert.

...

LEESBURG, Ga. — The Lee County Commission has approved the zoning changes necessary for more than 300 acres of south Lee County farmland to become Grand Island Golf Course and subdivisions. The decision allows Ledo Properties, which owns the land, to begin construction on the county's first course. John Gay, managing partner for Ledo Properties, hopes the course will open for play by late summer.

...

SHAWNEE MISSION, Kan. — A woman has sued a golfer at Mission Hills Country Club here after she was struck in the face by an errant shot while sitting in her car. Filed at the federal courthouse, the suit alleged golf was an "abnormally dangerous activity." U.S. District Court judge John Lungstrum disagreed, but did rule the woman's suit "sufficiently stated claim for negligence and is entitled to the opportunity (however slight) to prove defendant golfer failed to exercise reasonable care in striking the golf ball."

Watson warns ASGCA of impending water trouble

Architects meet by the Bay;
Dr. Watson honored; Knott
succeeds President Matthews

By MARK LESLIE
and PETER BLAIS

SAN FRANCISCO — Green areas, especially golf courses, are a national treasure and must be preserved, effectively maintained and expanded, according to Dr. James R. Watson, who received the Donald Ross Award from the American Society of Golf Course Architects during its annual meeting here in late April.

Watson — founder of International Turfgrass Society and the USGA Green Section Turfgrass Research Committee — challenged the architects to continue as industry pioneers in the agronomic sense, as well as the artistic sense.

He reminded them that Robert Trent Jones Sr. and other led the way in improving the greens mix from the old standard — one-third peat, one-third sand, one-third soil. These forward-looking architects, he said, began to recognize the one-third mixture was inadequate to support the increased play and moved the industry toward an 80:20 sand-peat mix, even before agronomists proved it was the best solution.

"As technology expands, as golfers and builders demand preciseness, as environmental demands become more stringent and water conservation becomes mandatory, I think it will become incumbent on anyone who builds golf courses of any type to follow very rigid specifications," said Watson. "Whether they are USGA specifications or not, remains to be seen. Those specs are changing and being revised as new technology becomes available."

Environmental concerns, wetlands legislation, increasing scarcity of water, and water-use statutes at all government levels "point to the inevitable curtailment of the amount of water that will be allocated to golf courses," he said. And there lies the next great challenge, he said.



PROPER BALANCE

*The Natural, an 18-hole public golf course in Gaylord, Mich., is a prime example of architecture and environmental preservation principles working hand-in-hand. Designed by Jerry Matthews, the outgoing president of the American Society of Golf Course Architects, the course features 123 acres available for golf. Yet only 35 acres, or less than 28 percent, are under normal maintenance. The rest of the course is left completely natural. For more information and case histories of how ASGCA members design courses to enhance wildlife habitats, write for a special 48-page booklet, *An Environmental Approach To Golf Course Development*. It's available for \$10 per copy from the ASGCA, 221 N. LaSalle St., Chicago, Ill. 60601.*

As a member of the National Academy of Science technology board on the future of irrigation, Watson reported: "Already, it is very apparent that some of these issues affecting water quality and quantity do not bode well of for the green industry."

In spite of "a very favorable environment for management of wildlife of all types... golf courses will not be given the amount of water they deserve," he predicted. "All sources of water — recycled, storm, gray, non-potable water of all types, including brackish and saline — must be considered as a potential sources of future irrigation for golf courses."

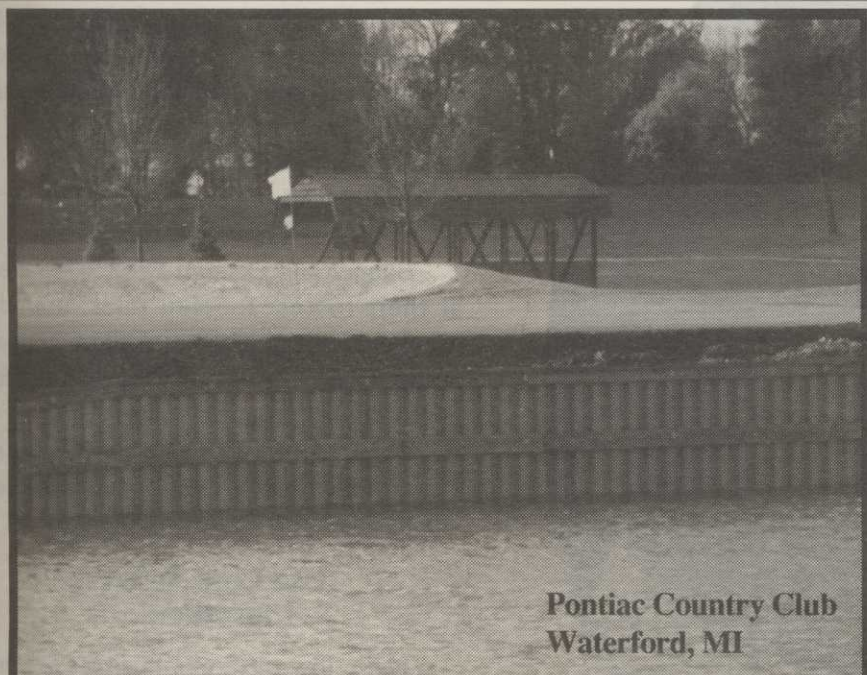
Even though breeding, selection, bioengineering, genetic engineering and proplastic transfusion will all provide superior plants in the future, Watson said, "None

Continued on page 10

ROY DYE, 1929-1994

Architect Roy Dye, who joined brother Pete in a golf course design practice in the late 1960s and 70s before working on his own, died after a long illness early on April 18, in Phoenix. Colleagues gathered in San Francisco for the ASGCA meeting mourned Mr. Dye's passing prior to sessions held Monday afternoon.

Born in Springfield, Ohio, Roy Dye was a chemical engineer by trade. After assisting his brother early in their partnership, Roy Dye handled many projects on his own, most notably Waterwood National GC in Huntsville, Texas, and the CC of Colorado in Colorado Springs.



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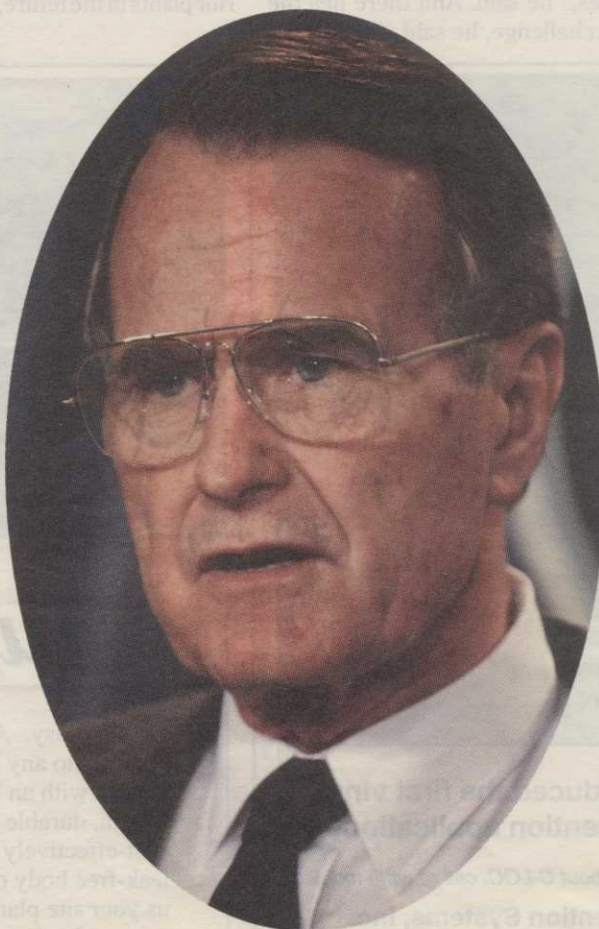
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THINGS THAT DON'T WORK WELL TOGETHER.



Some things just aren't meant to go together. For example, well-hit baseballs and windows, Bush and broccoli, postal delivery persons and neighborhood dogs. No matter how hard you try, they just don't fit together.

On the other hand, some things are meant to go together: beer and pretzels, football and Thanksgiving, peanut butter and jelly, kids and puppies.

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These low rates minimize the amount of active ingredient that you have to apply to the turf, yet provide both longer disease control and a spectrum of control that would not have been possible with either one of the products alone.

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The results are conclusive: Tank mixing Banner and Daconil 2787 can let you stay effectively ahead of diseases – while allowing you to use the lowest labeled rates for more cost efficiency.

If disease becomes established, you often have to throw a lot of money at the problem to make it go away. This is because treating diseases once they are established usually requires using a lot of different individual products to control the various diseases.

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Note-leaving course vandal remains at large

BODEGA, Calif. — Since September, a vandal has wreaked havoc on the Bodega Harbour Golf Links with a string of attacks that he vows to continue until his sleep is not disturbed by the sound of lawn mowers grooming the fairways at dawn. The vandal has poisoned nine greens, posted numerous threatening letters around the 18-hole course and a fire of suspicious origin has burned the maintenance building.

"We've set up random stake-outs, increased our community watch programs and increased our private security service," Bodega Harbour golf director Dennis Kalkowski told the *Fort Worth Star-Telegram*. "In spite of everything, the advantage is to the one who has issue with you."

"You must be tired of hiding people in vehicles, rentals and bushes by now," the vandal wrote in one note. "It won't work and it's very expensive."

Other notes have demanded an end to early-morning maintenance noise and an end to the placing of "cart crossing" and other signs along the streets.

Officials put the course damage at about \$10,000 so far.

Eagle Ridge Inn plans to expand with third 18

GALENA TERRITORY, Ill. — Eagle Ridge Inn and Resort is making plans to build a third 18-hole golf course. Work on the course, designed by Andy North and Roger Packard, will start this spring with the course open for play in fall 1995.

Jon Duelman, Eagle Ridge president, said it's his goal to make Eagle Ridge the finest golf resort in the Midwest, similar to what Pinehurst means to its region.

According to John Osmanski, Eagle Ridge manager, the 7,000-plus yard course will feature four sets of tees. It will also have a new club house with 40-seat lounge, a driving range, practice range and putting green.

TURKS OPPOSE MINN. COURSE

AURORO, Minn. — The Turk family here began a petition against the construction of the \$8.9 million 18-hole golf course proposed for Giants Ridge Recreation Area in Biwabek. Construction is set to start this spring. Rick Turk called the petition a "last-ditch effort" to save the family cabin, the proposed center of the 17th green. The Turks also do not believe the course will be financially viable.

Illinois judge backs state park projects

STERLING, Ill. — A judge has dismissed two lawsuits seeking to keep the Park District from buying the Emerald Hill Country Club. The plaintiffs of both lawsuits said they are considering more legal action opposing the deal.

Both plaintiffs contend the Park District exceeded its bonding authority by more than \$1 million when it offered to buy the country club for \$1.3

million in early January. The district also plans to sell another \$1.4 million in bonds for renovations. The lawsuits also asked the sale be stopped because the cost was excessive.

Judge Timothy Slavin disagreed. "Reasonable citizens may differ over the appropriateness of the purchase price," he said. "But ... such does not amount to the reasonableness required."

Miss. park blazing trail with success

McCOMB, Miss. — Adding golf courses at Percy Quin State Park here, and at John Kyle state parks near Sardis, is part of a \$30.6 million parks renovation bill passed by the Mississippi House this year.

Currently, the only state park golf course is a nine-hole layout at LeFleur's Bluff State Park in mid-Jackson, which has proven lucrative for the park system.

The new courses are included in the bill partly to raise revenues. "When you look at the activities

of our parks... that golf course makes more profit than any other one activity in any one park," said Bob Tyler, the system's director of parks and recreation. Golf grossed \$271,503 in fiscal year 1993 — 65 percent of LeFleur Bluff's total revenues.

Some residents say there is another good reason to build the public golf courses: Opening another recreational outlet for blacks, who historically have been denied access to the state's mostly private country clubs.



Next to well cut greens,
you demand well groomed bunkers.

Wetlands hold up Michigan project

NEW BUFFALO, Mich. — The long-planned \$155 million Whittaker Woods golf course and residential development here has one more hurdle to jump before construction can begin.

Owner Peter O'Brien said the 402-acre, 273-home project will soon have its permits from the Michigan Department of Natural Resources (DNR).

Last year, members of the Galien River Watershed Council objected to O'Brien's plans to fill nine acres of wetlands and modify

12 more, while recreating 10 acres of wetlands. Questions have also been raised about how storm water will be drained.

Albert Massey, the DNR's Region III land and water management supervisor, said O'Brien scaled back his planned wetlands changes and developed a satisfactory storm drain plan.

Massey said although the permit is ready to be signed, O'Brien and the DNR will still have to work out a survey to determine if the project threatens endangered species.

Wash. development right on schedule

DEER PARK, Wash. — The City Council here has approved plans for first-phase development of the Deer Park Golf and Country Club.

The 6,750-yard public golf course, which was seeded last fall, could be playable before winter, according to Marketing Director Ed Laigo.

Quantum Five Inc., the project's developer, is negotiating with several builders for

the first phase's 35 homes. When completed, the project will include 441 home sites, 105 condominiums and 116 recreational vehicle sites. The plan also includes a 150-room hotel that will probably be developed by a chain or other third party.

The Seattle-based Quantum will spend as much \$18 million on the 350-acre development, said Laigo.

Operator, not satisfied with lease, may buy Air Force course

SAN BERNARDINO, Calif. — The Inland Valley Development Agency, which has already agreed to lease and operate Norton Air Force Base's 170-acre Palm Meadows Golf Course, said it will submit a "significantly" higher offer to the Air Force to buy the course.

Last January, the Air Force rejected a \$2 million bid from the agency to acquire the course, which may have to move as many as four holes to accommodate commercial air service. Portions of the site are also tainted with toxic hot spots.

The higher offer came after a financial review of the course operations indicated it would generate a better cash flow than first projected, said Bill Bopf, agency executive director. The agency wants to retain the course so it can control development on property that has been earmarked as an intermodal transportation zone where containerized cargo is loaded from planes onto trucks and rail cars.

Also interested in the Norton course is the San Manuel Band of Mission Indians, a 150-member tribe that operates a bingo parlor in Highland. The tribe already has filed a letter of intent to buy 50 acres of mostly barren property in the northeast corner of the base.

Deciding not to file a formal application for the course, the San Manuel Indians are waiting to see what happens with the agency's bid.

Flood-ravaged course to reopen this summer?

DAVENPORT, Iowa — With the Great Flood of '93 destroying Davenport's Credit Island Park, there is a growing movement to reseed the park's golf course with an eye toward opening it for play later this summer.

Other options include abandoning the park completely or turning it into a quasi-nature preserve with camping facilities and other amenities.

Several city aldermen said they are leaning toward reseeding the golf course. "I don't think anyone feels it's a waste of money," Alderman Jim Hayek told the *Quad City Times*. "It won't be a Cadillac golf course, but people will be able to play golf."

The nine-hole course, which is popular with novice golfers and senior citizens, and the rest of the park would cost about \$10,000 to \$15,000 to reseed. City officials want to use Federal Emergency Management Agency dollars to pay for the reseeding.

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CIRCLE #105

The Coeur d'Alene Resort Golf Course, Coeur d'Alene, Idaho.

New York proposal goes public

STILLWATER, N.Y. — Plans for an 18-hole golf course here have been disclosed.

According to a map presented by C. Michael Ingersoll, an engineer for the LA Group, the course will be situated on a 211-acre parcel of property and will include a 14-lot subdivision.

The land is currently zoned for residential use and could accommodate 200 housing units, Ingersoll said.

The construction of the golf course would require a zone

change to planned recreation development.

The project also includes plans for a 150-car parking lot with room for expansion, and a 3,000-square-foot club house with pro shop and grill.

Ingersoll said rough clearing of the land could begin this month, with construction starting in the summer. The Luther Forest Corporation of Malta is the owner and developer of the land.

The golf course would be open by the spring of 1996.

County-owned farm project hits snag

BUTLER, Pa. — County residents opposed to turning part of the county-owned Sunnyside farm into a golf course say they intend to take the issue to court if the county leases the land.

The county solicitor has already begun negotiating a lease with Butler County Golf Links Inc., which plans to combine part of the 136-acre county farm with adjacent land it owns to build an

18-hole public golf course.

Supporters contend the course will put the property back on the tax rolls, maintain the "green" state of the land and create jobs.

Those who oppose the project say since the property is publicly owned, it should be preserved as an agricultural asset rather than be developed for the benefit of a private company.

Mass. residents question cost of proposed muni

NORWELL, Mass. — Opponents of a proposal to build a town golf course on the Stetson Meadows conservation land said the course would cost more than twice as much as the Golf Course Committee estimates.

Figures presented to the committee by The Friends of Norwell, a group of residents organized in 1988 to oppose the course, estimate the project would cost \$4 million to \$5 million to build. The golf course study committee has estimated it would cost \$1.5 million to \$2 million to build the course.

The additional costs come from a variety of sources, according to Richard Meyer, a representative of the Friends group. This includes \$150,000 for 10 wells that would have to be dug for irrigation, \$170,000 to build a road, \$400,000 for a clubhouse that would have to comply with the Americans with Disabilities Act, \$60,000 for a septic system, \$116,000 for a parking lot and \$113,000 for lighting.

Depending on bond terms, the Friends concluded the course would not break even for about seven years.

Judge refuses to stop construction

COVINGTON, Ky. — A state appellate judge has refused to stop construction of the golf course expansion now under way here in Devou Park. In allowing the construction of nine new holes to continue, Judge Wil Schroder denied an emergency request by opponents of the expansion to stop the course's development.

Schroder's ruling did not come as a surprise to city officials. "It's what we expected," City Attorney Joe Condit said. The city approved the expansion last May in order to increase use of the park and acquire a more lucrative contract with the golf course's operator.

Chas Brannen, a representative of the opponents to expansion — who believe the expanded course would destroy the park's natural beauty and close most of it off the general public — said he is unsure of what the next step will be. The group could ask the state Supreme Court to overrule Schroder, or it could simply allow the normal appeals process to continue.

KAURI CORP. SPELLS OUT MARYLAND PROPOSAL

SPRINGFIELD, Md. — Kauri Corp., of Phoenix, Md., has unveiled plans to develop 190 lots around an 18-hole golf course on 420 acres here. This township's first residential community will consist of 90 single-family homes and 90 townhouses.

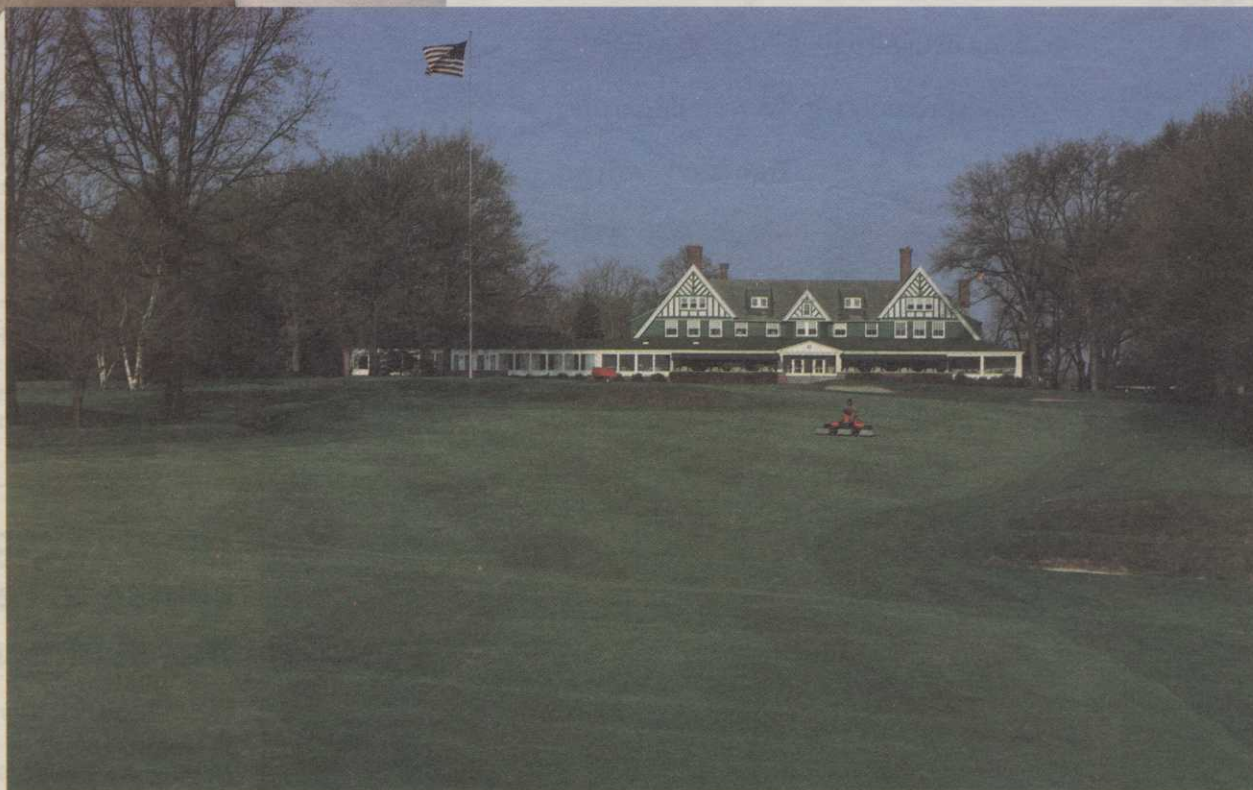
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California & Federal EPA working in concert

The Environmental Protection Agency and the California Department of Pesticide Regulation (DPR) have begun more closely coordinating federal and state pesticide programs, particularly in the area of registering pesticides.

EPA and DPR have worked closely for years. The new initiative formalizes that relationship and calls for increased communication along with development of projects to resolve differences between the two.

The agencies have agreed to more closely harmonize state and federal registration processes to minimize potential for conflicting regulations; simplify procedures for registering reduced-risk pesticides and for revoking the registration of high-risk pesticides; and exchange EPA and DPR work products such as the reregistration of old pesticides in order to reduce duplicating efforts and use resources more effectively.

Several projects designed to meet these objectives are already underway. EPA will provide DPR with all EPA data reviews and risk assessments of new active ingredients. DPR will provide EPA with acute data reviews for products containing active ingredients subject to federal reregistration. This effort will assist EPA in expediting the reregistration process.

EPA and DPR will also compare respective risk assessments, both for an old pesticide and for a series of new active ingredients. The agencies will identify differences in the way studies are selected for review and conclusions are drawn from data.

...

EPA has proposed adding 170 new pesticides that must be reported by manufacturers when released into water or air.

Under the 1986 Emergency Planning and Right-to-Know Act, EPA could add 317 chemicals to

EPA ROUND-UP

its annual toxic release report. There are already 320 chemicals, including 24 pesticides, on the list.

Pesticide manufacturers and processors could be affected.

...

Charles Clarke has been named regional administrator with the EPA's Region 10, representing Alaska, Idaho, Oregon and Washington.

Clarke has 17 years experience in the public sector, most recently as agency secretary for the Vermont Agency of Natural Resources. He worked for the state of Washington from 1976 to 1992 with the Department of Ecology and Department of Community Development.

Clarke is a resident of both Washington and Vermont. He earned a masters degree in business administration and a bachelors degree in biology from Pacific Lutheran University.

Lockheed in market for a developer

PALMDALE, Calif. — The Lockheed Corp. is trying to make a profit from 632 acres of vacant land it owns by selling it or developing it as a business-industrial park that would feature a public golf course, according to a Lockheed consultant.

The 236-acre golf course is planned for the part of the site on which buildings are outlawed due to Air Force noise.

The course would be a "fee-for-play" course open to the public.

Lockheed is doing preliminary planning for the park site. Although Lockheed probably won't be developing the park, company officials figure the land will be more attractive to potential buyers if Lockheed has already secured the city's permission to build a business park on the land, company spokesman Paul Haney said.



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NAVY FULL SPEED AHEAD ON DAIRY FARM PROJECT

ANNAPOLIS, Md. — The U.S. Naval Academy is moving forward with plans to turn the bulk of its 862-acre dairy farm in Gambrills into a golf course.

Although there has been no final decision on a golf course, academy officials have decided to award an architectural contract to create a concept drawing of a course.

This decision is based on a \$7,000 feasibility study conducted last September by PGA Tour Golf Course Properties. The Florida company recommended a \$19.5 million semiprivate facility with 2,000 members.

The Naval Academy already has a 18-hole golf course.

State EPA blocks \$35m Ohio resort project

CEDARLAKE, Ohio — An Ohio Environmental Protection Agency (OEPA) decision has blocked the proposed development of a \$35 million resort here, which includes an 18-hole golf course, 2,500 homes, a marina, lodge and other amenities.

Developer U.S. Concord Inc. of Mount Vernon said the project is too important to the company and the Adams County economy to drop.

"We will pursue all avenues available, including the courts if necessary, to see this project through to its completion," Concord President Brian Emler told the *Dayton Daily News*.

OEPA Director Donald

Schregardus rejected the company's request to dam Brush Creek to create a 1,100-acre lake because it would violate Ohio water quality standards and would alter the creek's animal habitat enough "to eliminate or significantly decrease the relative abundance of 23 of the 37 species collected in or near the proposed project area." The proposed lake is the centerpiece of U.S. Concord's project.

Critics of the project, led by the Ohio Historical Society, hailed the

decision. They believe the resort would damage or destroy the famed Serpent Mound, a 1,348-foot land earthwork that snakes back and forth before reaching a head that appears to be swallowing an egg.

Adams County business leaders and the Adams County/Ohio Valley Local School District support the plan. They say the jobs and taxes generated by the resort would far outweigh any possible damage to the ancient Serpent Mound.

Effluent use to be mandated in Phoenix?

PHOENIX, Ariz. — Due to the fast pace of golf course development in the northeast Phoenix area, the City Council will soon consider an ordinance mandating the use of effluent on golf courses north of the Central Arizona Project (CAP) canal.

Golf courses like CAP water, which comes from the Colorado River, because it is inexpensive. Untreated CAP water costs about \$180 an acre-foot while treated effluent would

cost about \$350 an acre-foot.

If the council approved the ordinance, golf courses would be forced to use the treated effluent once the city builds a treatment and delivery system — probably later this decade.

CAP water can be delivered to the golf courses as long as there's extra. That is not a problem so far as the canal has about a 1.5 million acre-foot capacity while the demand is about 700,000 acre-feet.

ASGCA meeting

Continued from page 3

will be able to totally supplant the role of water in the care and maintenance of a golf course."

Announcing the selection of Watson for the Ross Award, Rees Jones cited him as "the practical voice" among turfgrass organizations.

Outgoing President Jerry Matthews called him "a true friend of the golf industry for 42 years, in all phases. He has worked with the turf industry, irrigation people, fertilization, seed development — any part of it. He has simply, quietly been helping all of us in the golf industry, making golf a better place to be, making golf courses better places to build, grow grass and maintain grass."

...

Donald Knott of Robert Trent Jones II International of Palo Alto, Calif., succeeded Matthews as ASGCA president during the San Francisco meeting.

Longtime ASGCA member Ted Robinson was also elected fellow in the association. The humble Robinson accepted the honor, saying it was given as "primarily a process of survival."

...

Speaking during an ASGCA session on the Americans with Disabilities Act, architect Richard Phelps said the society is working with representatives of the PGA Tour and Golf Course Superintendents Association of America to develop guidelines regarding course design.

The guidelines will be submitted to the federal government by July and be published in the Federal Register for a public comment period. Specific laws aren't expected to be in place until sometime in 1995, Phelps said.

Phelps added that ASGCA is recommending that, on new construction, disabled-golfer access be designed into at least one tee and the green. It would be up to the disabled golfer to negotiate his or her way around the remainder of the course, although architects should strive to make as much of the layout as accessible as possible, he said.



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down for the differential lock, conveniently located next to the shift control.

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Anonymous backer funds project

FRONTENAC, Kan. — A golf course proposed here came a step closer to reality as an unnamed financier from Tennessee has agreed to fund the course. The course will cost between \$5.2 and \$5.3 million, significantly higher than the original estimate of \$3.5 million.

Southern Golf Development of Houston will build the course and Kansas Golf will manage the course on a lease agreement. After 15 years, the city would become owner of the course since it

will be located on city-annexed property.

The financial package has been finalized, with construction set to begin around May. Depending on the weather, construction would take about 16 months with a proposed completion date of 1995.

"The course will be certified by *Golf Digest* and could be ranked among the top 50 golf courses in the country," said a confident Jeff Gazaway of Kansas Golf Development.

WOLF RUN MAY OPEN BY JUNE OF '95

HENDERSON, Ky. — Preliminary plans for a 330-lot subdivision with an 18-hole golf course were approved by a committee drawn from the Henderson City and County Planning commissions. The project is proposed by Evansville developer Jim Adler, who told the committee that the Wolf Hills golf course "should be open in June of '95."

Council okays Dakota development

VERMILLION, S.D. — Both an 18-hole golf course and a 100-building residential site should be in place here by next year. The city council gave its unanimous approval to the \$3.4 million project in February.

"The city originally looked at 11 cites for the project and has chosen property owned by Dave Smith and Mark Quam," City Manager Jeff Pederson told the *Yankton Daily Press and Dakotan*. The council made the decision, Pederson said, using the results

of a feasibility study by THK Associates, Greenwood Village, Colo.

The new golf course will replace the current nine-hole municipal course, which will be sold by the city.

"Our target date for the golf course is mid- to late-1995," Pederson said. The city has been working with Rapid City course designer Pat Wyss.

The council has developed a financing package which is designed to cover the costs of the project. The package includes three parts: revenue from the golf course, such as green fees, will help pay for the course; revenue from lot sales will help pay off the debt; and the creation of a tax increment financing district will allow tax revenues to accrue over a number of years and help pay for the housing units.

The THK plan estimates the project will raise \$4.9 million over 15 years compared to the \$3.4 million expense.

State and federal agencies approve Superfund project

ANACONDA, Mont. — State and federal environmental agencies have signed off on a Superfund cleanup plan for this city's original smelter works area which allows for construction of a Jack Nicklaus-designed golf course.

Anaconda-Deer Lodge County now has the major responsibility for regulating the site.

ARCO, the company held responsible for this federal Superfund site, plans to deed all 1,500 acres of the site to the county. In return for accepting the burden of monitoring and regulating the land, the city gets a golf course and the chance to bring commercial development to a former waste land.

Allowing a luxury golf course as a cap over mine tailings and other wastes signals a change in policy by the federal environmental protection agency. "This is the first in the nation," County Chief Executive Cheryl Beatty told the *Montana Standard*. "This is a major step because we are going to make wasteland into usable land for the future."

PENN. PROJECT UNVEILED

SPRINGFIELD TOWNSHIP, Pa. — A proposed housing development here would include 180 homes and an 18-hole golf course.

If everything goes smoothly, the golf course will be built in about two years and not used until the year after that, according to project engineer Alan Wright.



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6x4, a liquid-cooled engine, result in extremely low sound levels.

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Montana resort plan heard in Havre

HAVRE, Mont. — Construction of a 245-acre resort, which will include an 18-hole golf course, could begin as early as this spring, according to developers who presented their proposal to the Havre Area Chamber of Commerce this spring.

Ted Morris, president of Quantum V, said development plans call for a golf course,

hotel, condos, recreational vehicle park, convenience store and truck stop.

The entire complex will be located just east of Havre.

Morris acknowledged funding from private sources has been only partially secured. The developer added that local, state and federal funding will also be sought for the resort.

Theft reported at Illinois course

CARPENTERSVILLE, Ill. — Due to the stealing of more than \$55,000 in cash and merchandise from Dundee Township Park District's two golf courses, park officials say this year's scheduled improvements at the courses could be reduced.

Executive Director Tom Mammoser discovered shortages of at least \$37,814 in cash and \$17,835 in various pro shop merchandise and clothing at both Randall Oaks and Bonnie Dundee golf courses.

"This would not make us raise fees or raise taxes," park board President Al Huffman told *The Courier News*. "Where it might hurt is that there will be that much less money to do some of the improvements we had scheduled at Randall and Bonnie."

The Kane County sheriff's office is investigating former park district employees as the leading suspects in the case. All five full-time employees were suspended from their duties while district officials interviewed them.

VERNON HILLS PROJECT TO INCLUDE 18 HOLES

VERNON HILLS, Ill. — A new 18-hole golf course and 2,121 housing units are included in the plan to develop the Cuneo farm here. The proposal would increase the village's size by one-third and its population by as much as 6,000. Open space in the plan includes two lakes, the 200-acre municipal course and 90 acres of park.

AGC expands centralized reservations

SANTA MONICA, Calif. — American Golf Corp. has expanded its centralized reservation tee time service into Los Angeles.

By calling 310-829-GOLF, golfers are able to book tee times at six golf courses currently on the system. The courses include, Brookside, Camarillo Springs, Fullerton, Mountain Meadows, Vista Valencia and Westchester.

Two courses in the Palm Springs area, Mesquite Country Club and Desert Dunes Golf Course, have been added to the reservation center.

American Golf developed its centralized reservation tee time service in Phoenix in 1992 to handle seven of its resort and public courses. The reservation center was conceived to aid resident golfers, travel agents, hospitality industry employees and inbound Arizona tourists, allowing easy accessibility to make tee times up to sixty days in advance.

"Over the past number of years it has become increasingly difficult to book tee times in these two popular destination resort markets," said American Golf's President of the Resort and Public Division, Kevin Roberts. "Our goal is to simply make it easier and more convenient for the public to gain accessibility to a tee time that fits their schedule."

Golfers throughout the country are now able to access American Golf's Arizona courses by dialing 1-800-GO-TRY-18.

VARGAS BOOK OFF THE PRESS

Completely revised and updated, *Management of Turfgrass Diseases, 2nd Edition*, by Dr. Joe Vargas Jr. of Michigan State University, is off the press. *Management of Turfgrass Diseases, 2nd Edition* covers cultural, genetic, biological, and chemical approaches to turf management, and provides practical solutions to everyday problems.

The book covers cool- and warm-season grasses, growing conditions, new diseases, and symptoms. *Management...*, 2nd Edition is available for \$59.95 from Lewis Publishers, 121 South Main St., P.O. Box 519, Chelsea, MI, 48118.

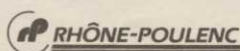


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Rosow, IGG create foothold in Asia-Pacific market

FAIRFIELD, Conn. — International Golf Group, Inc. (IGG) has taken its act overseas, agreeing to a golf course management contract in Malaysia and a golf course design, construction and maintenance contract in Indonesia.

IGG also opened an office in Singapore in early February, in addition to a branch office in Jakarta. An office in Kuala Lumpur is in the planning stages, according to Chairman David A. Rosow.

Rosow said IGG will offer its

clients a unique development "package" that includes golf course and amenity design, construction services, and management of the completed facility.

Rosow's experience lies in the design and development of large projects. He was responsible for the development of the Stratton Mountain Resort in Vermont, a 4000-plus acre, "four-season" ski and golf resort.

After the sale of the company in 1989, Rosow's activities have focused on the golf industry. In the

U.S., IGG owns and manages the Persimmon Ridge Golf Club (Louisville, Kentucky), Southernness Golf Club (Atlanta, Georgia), MasterTech Golf Company (Louisville) and National Golf Suppliers (Louisville).

In Malaysia, IGG has reached an agreement in principal to manage the just-completed Palm Garden Golf Club, a 27 hole facility located in the Klang Valley, about 20 minutes from Kuala Lumpur. Palm Garden also boasts an 80,000-square-foot clubhouse, a variety

of restaurants, two swimming pools and tennis/squash courts.

IGG will also manage the Palm Garden membership marketing program that commenced shortly after the club's opening.

Meanwhile, course construction is expected to begin this October outside Surabaya, Indonesia. IGG has been commissioned to design and manage construction of an 18-hole golf course. Design work will be handled by Rosow and IGG's in-house design group. The as yet unnamed golf course is scheduled to open in early 1996.

Superintendents plan conference 'Down Under'

ADELAIDE, Australia — The 13th annual Australian Turfgrass Conference and Trade Exhibition, sponsored by the Australian Golf Course Superintendents Association (AGCSA), will be held July 10-14, here at the Adelaide Convention Center.

A diverse and knowledgeable roster of speakers will address the largest audience in the event's history, said Euan Laird, chief executive officer of the AGCSA. Five hundred delegates had signed up during the first three weeks of registration, said Laird, trebling the count from previous years.

Representatives of the Australian Turfgrass Research Institute, Turfgrass Technology, and the Australian Irrigation Technology Centre all grace the speakers list, in addition to practical turf managers from the country's top golf courses. American presenters include noted turfgrass experts Dr. Tom Watchke of Penn State University, Dr. Robert Carrow of the University of Georgia and Michigan State University's Dr. Paul Reike.

Laird said registration is US\$454. For more information, contact him at Golf Australia House, 155 Cecil Street, South Melbourne, 3205; or call 61-3-696-0871; or fax 61-3-699-8516.

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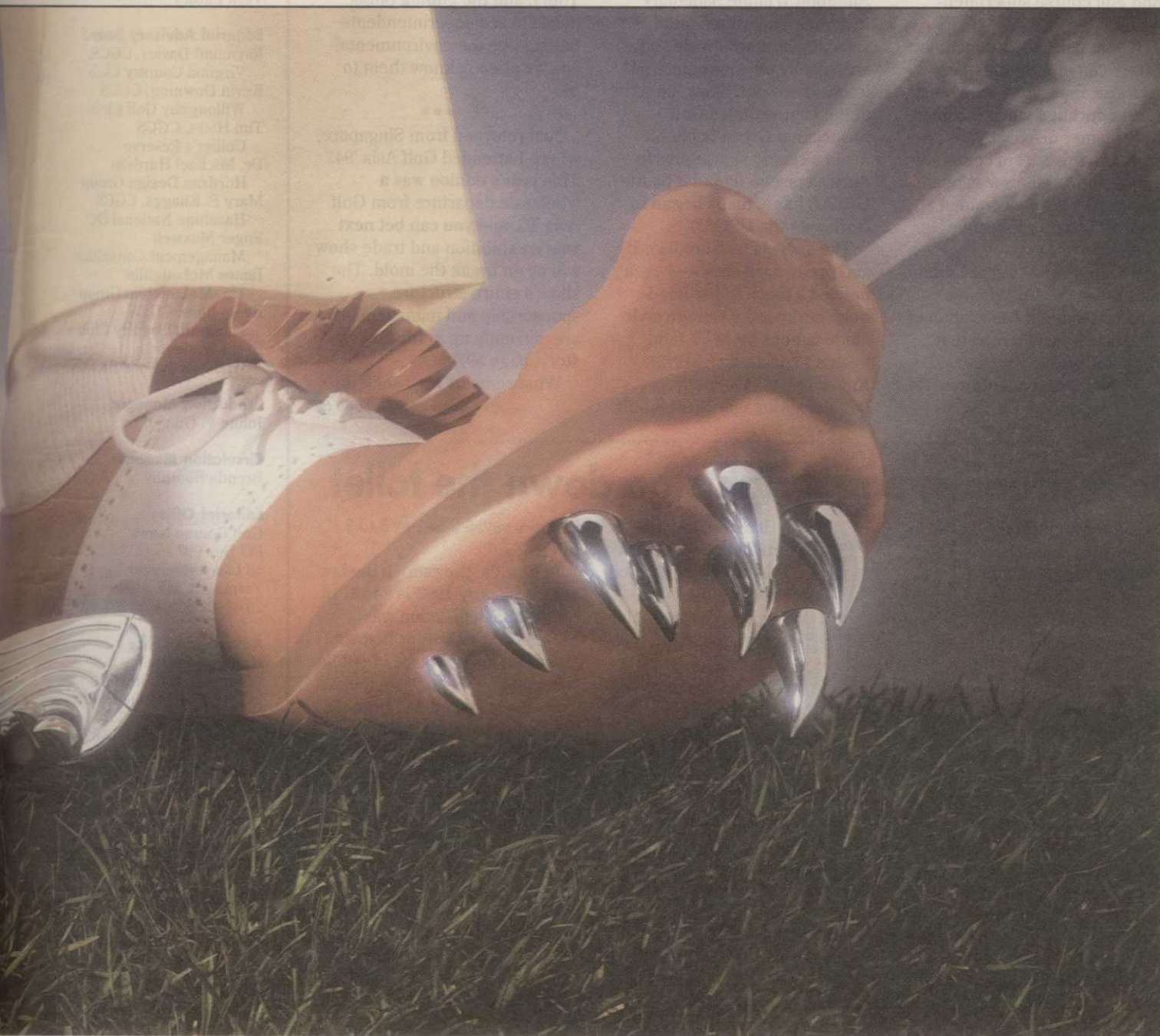
Meanwhile, the AGCSA has pulled together end user groups involved with turf to form the Australian Turfgrass Research and Development Council (ATRDC).

According to Laird, the aim was to create a "peak industry body to coordinate and represent the turf industry in matters of research, education and development."

The ATRDC was formed following a meeting last year in Canberra, where the Australian superintendents' association was charged with forming the council. Laird said the ATRDC hopes to have at least two research projects underway by the close of 1994, complementing the US\$500,000 worth of turf research now conducted by the Horticultural Research and Development Corp. (HRDC).

The council members include The Australian Golf Union, Australian Bowls Council, Australian Jockey Club, AGCSA, Royal Australian Institute of Parks and Recreation, Turfgrass Association of Australia, Sod Growers Association, Irrigation Association of Australia, Melbourne Cricket Club, Bowling Greenkeepers Association of Australia, and the HRDC.

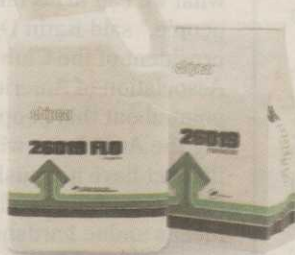
Contact Laird for further ATRDC information.



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Different media, same result: Communication

It's called communication, and two industry members have showed a flair for it this spring. To wit:

• Sandoz Agro sponsors a survey of chemical applicators every two years and golf course superintendents were included for the first time in the 1994 poll. The results — compiled by the Gallup Organization — make for pretty interesting reading (see story, page 1).

We applaud the inclusion of superintendents and further endorse the idea of opening these important lines of communication. Surveys like these enable manufacturers to pick the brains of their customers, of course. But publishing the results enables other superintendents and applicators in general to see what their colleagues are doing right — and wrong, for that matter.

The Sandoz poll elicited some potentially harmful responses from those who apply pesticides. For example, 50 percent of surveyed farmers indicated they "sometimes" disposed properly of containers (only 20

percent of surveyed superintendents answered similarly).

Fifty percent?! That's way too high.

This sort of revelation is a double-edged sword. Sure, opponents of pesticides might seize upon this tidbit and use it

against the entire industry — farmers, lawn care applicators, roadside vegetation managers and golf course superintendents.

Is that fair? No, but manufacturers can now identify farmers as those applicators who most need education when it comes to container disposal. In addition, this sort of communication shows all professional applicators have a common interest in safe application practices.

• Our second "Great Communicator" is the Golf Course Superintendents Association of America. Yes, you read that right: GCSAA.

The superintendents association has produced a new 30-



Hal Phillips,
editor

minute television show, now airing on the PRIME Network in syndication (see story, page 21).

It's called "Par for the Course," and it's the only golf program on television that views the game from an environmentally

positive perspective: Nature walks on golf courses. Ron Dodson speaking about the Audubon Wildlife Sanctuary Program. Superintendents speaking authoritatively and articulately on environmental issues. Even Jim Snow, director of the United States Golf Association Green Section, made a cameo appearance in April's episode (could it be the GCSAA has actually begun to work with the USGA?).

The show is well-produced and pretty darn slick — I even noticed a touch of the handheld, herky-jerky camera style made famous by MTV (and beaten to death by ESPN2). Kudos to GCSAA Public Relations Manager Scott Smith,

who co-produces the series with host Duke Frye.

In order to make the show consumer-palatable, GCSAA has made some concessions. Golf instruction and travel pieces are, indeed, par for the course on 99 percent of cable's many 30-minute golf programs.

Despite all this, "Par for the Course" is an idea whose time has come. Nothing communicates or creates exposure like television (just ask the PGA Tour), and the golfing public needs to see superintendents talking like the environmentalists we already know them to be.

...

Just returned from Singapore, where I attended Golf Asia '94. This year's edition was a wholesale departure from Golf Asia '93, and you can bet next year's exhibition and trade show will again break the mold. The show's entire structure, sponsorship and management are currently up in the air (see story, page 59).

What remains rock solid is

Continued on page 68

When it comes to restrooms, equal rights go down the toilet

All of you who have struggled with figuring your golfing handicap, we'll need your help (and commiseration) with this update on *Societal Deviation* and its effects on the golf industry.

First, the nation had civil rights (basically, that means no discrimination is allowed against a person because of skin color). Then we had gay rights (that is, discrimination is outlawed against a person for his-her-their personal "lifestyle choices"). Then we had handicapped rights (to ensure that physically challenged can get in and out of public facilities).

But, prepare America! The

'90s have brought us (hold your breath) Potty Parity. That is, equality in America's public bathrooms. Please stay with me in this. It is all true.

Potty Parity refers to legislation, in effect or under debate in a number of states, that calls for areas of public assembly, businesses, restaurants — and public golf courses — to have more restroom facilities for women than for men — sometimes twice as much. Ladies say studies show they need more room. Hey, who's to argue, but ... is this tantamount to discrimination against men?



Mark Leslie,
managing editor

It's hard to find intelligent counsel in this. In the Bible, God only told the Israelites, wandering in the desert, to dig a trench outside the camp.

And, in Galatians 3:28 it says: "There is neither Jew nor

Greek, slave nor free, man nor woman, for you are all one in Messiah Jesus."

Restrooms are just not mentioned.

What unexpected fallout could Potty Parity have?

Existing businesses are grandfathered under such laws. But new developments in these states will normally have to

include, say, a 2-to-1 or 3-to-2 ratio.

In Florida, the ratio in the law passed in early 1993 is 2-to-1. In Minnesota, legislation was introduced this winter that "provides for any place of public accommodation constructed or extensively remodeled hereafter, that there shall be three water closets for women for every two water closets or urinals for men, unless there are two or fewer fixtures for men."

Three to four water closets is normal for the men's room in a clubhouse, according to Joe Hafner, vice president of The MacEwen Group, Inc., of Tampa, Fla., which designs clubhouses across the country. That translates into an additional cost of \$4,000 to \$5,000 per restroom, Hafner estimated.

Not a huge cost. But, after all, parity (not penalty) is the aim of such laws.

"Clearly, our position is always that we respect everyone's rights and want to do what we can to accommodate all people," said Kathi Driggs, vice president of the Club Managers Association of America. She pointed out that people enforcing the Americans with Disabilities Act have not pushed too hard when full compliance means undue hardship for a company. And "extensive remodeling" is a subjective point as well, she said.

"It's not a big issue for existing clubs. But it could be for new clubs and ones under

Continued on page 36

Letters

THE NUMBERS JUST DON'T ADD UP

To the editor:

As a golf course consultant, I just couldn't resist questioning the article, "Golf could be profitable for Utah city, study says" in your April issue [page 9]. Hopefully, the conclusions drawn, namely that the present 240,000 rounds played at nine existing courses and green fees of \$9 and \$15 "could make \$607,000 a year" are misreported rather than the conclusions of the consultant.

Simple math tells me that 240,000 rounds spread over nine courses equals 26,667 rounds per course, which is certainly not crowded conditions indicating under supply. If we then add another course the average declines to 24,000 per course. At an average green fee of \$12, this equates to \$288,000 in revenue — not profit.

Where's the consultant's \$607,000 coming from? By my reckoning, even if carts are mandatory at \$10 per person, that would add only \$240,000 to the total revenue — still short of the

\$607,000 indicated to be profit.

This then leads to two possible conclusions:

- 1) The article was incomplete and didn't mention other revenue sources or rationale, or
- 2) The consultant is incompetent.

Hopefully, the proper conclusion #1. Otherwise, all of us in consulting may be painted with this brush.

Scott Krause
golf consultant
Muskego, Wis.

Ed. While we would never assert #2, we stand by the figures reported in the story — thereby discounting conclusion #1. Mr. Krause's numerical points are well taken. However, the numbers which don't seem to add up are those of E. Peter Elzi of THK Associates Inc., not *Golf Course News*. In Elzi's defense, the \$607,000 figure was surely meant to represent third-year revenue, not profit.

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The European golf development market is not what you think

By DR. FALK BILLION

Five years ago, as the 1990s began, the Old World seemed to be a sleeping one in terms of golf course development. While in the New World, the National Golf Foundation was promoting nationwide targets like "one new golf course per day", nothing the like had been heard from across the Atlantic ocean. Traveling golfers still told the same old story about the same classic courses all over the British Isles and parts of the continent, and just some of the American golf course architects discussed the design of new courses in European regions.

This impression is wrong! In the four years beginning in 1990, no less than 1,111 new golf courses have opened all over Europe. This is a growth of nearly 32 percent compared to 1990. In the '90s, Europe has witnessed the opening of 278 new golf courses per year (which is not quite one new course per day, but in any case equals three quarters of a course per day). In respect to golf course developments, England takes the lead with 242 new courses, followed by France with 177, Sweden with 142 and Germany with 109 new golf courses over the last four years.

This rapid golf course development clearly is concen-

Falk Billion, PhD, is a golf course developer and consultant based in Munich, Germany. He concentrates on golf course market and feasibility studies, golf course operations consulting, and project management for new golf courses.



Dr. Falk Billion

trated in the leading industrial nations of Western Europe. The Mediterranean sunshine belt does have an important share,

too, with 129 new courses in Italy, Spain and Portugal. The countries of Eastern Europe, on the other hand (Croatia, The Czech Republic, Hungary, Poland, Russia and Slovenia), have 28 golf courses

altogether, 17 of which (60 percent) opened during the last four years.

Western Europe — with 20 countries and a population of around 376 million — now boasts 4,600 golf courses, whereas the six countries of Eastern Europe — with 214 million people — account for 28. All over Western Europe, golf clubs count around 2.2 million member players, a number which equals only 0.6 percent of

the total population. Club golfers amount to some 4 percent of the population in Scotland, Ireland and Sweden, with some remarkable percentages between 1 and 2 percent in England, Wales, Denmark and Iceland.

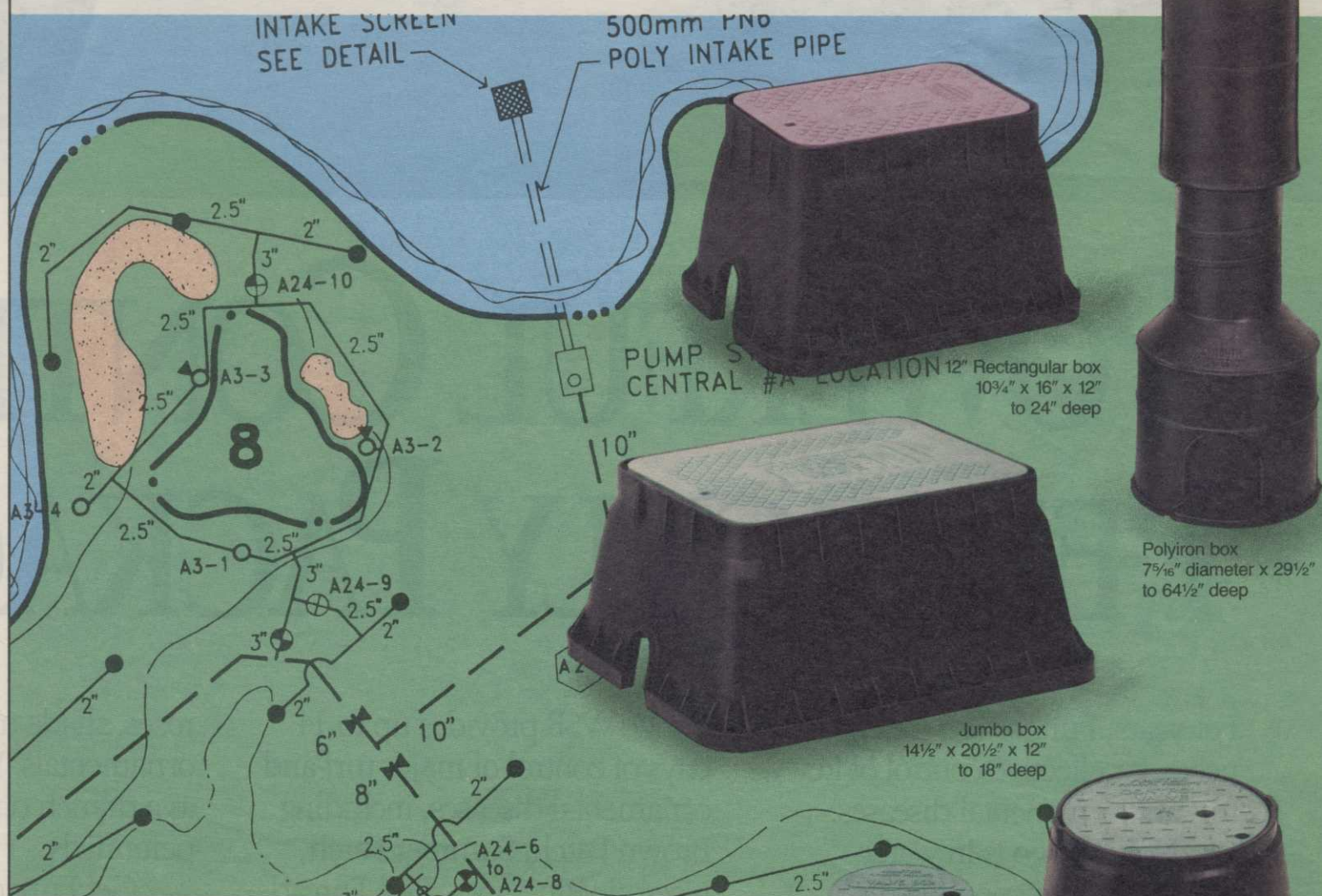
Public golf is widely spread only over the British Isles, with around 1.5 million non-club-member players reported to make use of municipal and pay-as-you-play-facilities in Great Britain. Public golf has how

been taking an increasing share in Sweden and France, too, as well as in the Netherlands. France has seen rapid growth of courses in the late '80s and early '90's, due to a government financed program of public (municipal) facilities.

More than 90 percent of Europe's older courses, however, still are member-owned facilities, mostly run by non-profit clubs and often ruled by voluntary club committees. Professional management, in the sense of profit making, is largely found on new golf

Continued on page 46

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Obituaries

Bill Wooten, 61

Bill Wooten, whom many in Florida considered "Mr. Club Car," died of a heart attack on Feb. 22. He was 61.

After eight years of service with Textron's golf car division, Mr. Wooten joined the new management team at Club Car in 1978 and served a key role in building Club Car's early presence in Florida.

"Bill did so much for Club Car in his 16 years here," said George Inman, Club Car chairman and chief executive officer. "His professionalism and dedication to his customers set a standard for a lot of the younger people here... and were an inspiration to us all. We'll miss him."

Mr. Wooten was born in 1932 in Norfolk, Va. he is survived by his wife of 15 years, Jean, three children and two step children.

GOLF COURSE NEWS

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BRIEFS



PESTICIDE GUIDE PUBLISHED

FRESNO, Calif. — The Users Reference Guide to Pesticides, aimed at agricultural and horticultural users, has been released by Thomson Publications. The 200-page book lists products registered in the United States by generic name, followed by different formulations with their tank-mix, adjuvant and compatibility recommendations. It is available from Thomson at P.O. Box 9335, Fresno, Calif. 93791; telephone 209-435-2163.

ASHS ELECTS CLEMSON'S KELLY

CLEMSON, S.C. — The head of Clemson University's Horticulture Department has been chosen research vice president-elect for the American Society for Horticultural Science. Dr. John Kelly was elected by the ASHS membership for his outstanding leadership, involvement in the ASHS and professional accomplishments. He will begin his term in July 1995. Kelly has been a professor at Clemson for nine years and department head since 1991. He also is director of the South Carolina Botanical Garden.

TESTS CONFIRM TURF COVERS HELP

Turf development research conducted at Texas A&M University is the subject of a new report from Contech Construction Products Inc. Results of the studies confirm that sensitive turfgrasses can be readily protected



against winter elements. One of the objectives of the research conducted by Dr. M.C.

Engelke, associate professor of turfgrass breeding, was to reduce winter dormancy for the emergence of healthier turf after winter seasons. Free copies of the report are available from Contech, Dept. GICH-102, 33 Greenwood Lane, Springboro, Ohio 45066; telephone 800-338-1122 (in Ohio, 800-752-8899).

SOD HOTLINE INSTALLED

Turf Resource Center, a toll-free telephone service, now is available to the American Sod Producers Association's office. The phone (1-800-405-TURF) emphasizes ASPA's developing public relations and education program. Organizations, publications and individuals will be able to obtain listings of sod producers in their area of interest, tips on sodding, and information for possible articles or other facts related to the sod industry specifically, or turfgrass generally.

GOLF COURSE NEWS

Winter kill serves spring wake-up call to mid-Atlantic Coast supers

By DIANE MILLER

In the wake of the most severe winter since 1977-78, golf course superintendents from Maryland to New York are reporting the loss of as much as 30 percent of their turf on greens and up to 70 percent on fairways, and some may not open until "well into May."

The blanket of ice and snow that kept area courses closed for as long as two to three months prevents gas exchange around the glass plants, in effect smothering the plant. Superintendents are discovering that under the layers of ice the turf is rotting and black in some areas, giving off a powerful stench once the ice is removed.

Winter injury, including extensive winter kill of poa annua and perennial ryegrass, extends from Baltimore and Washington, D.C., through the Philadelphia area, central and northern New Jersey, and into the Pocono Mountains, according to the U.S. Golf Association Green Section. Much heavier than normal snow mold damage is

being reported through Ohio and Kentucky.

More than 200 golf course superintendents, assistants, greens chairmen, club officials, and course owners from the New Jersey/Philadelphia area met on March 28 at Tavistock Country Club in Haddonfield, N.J., to discuss the ramifications of the severe damage.

The joint meeting of the Golf Course Superintendents Association of New Jersey (GCSANJ) and the Philadelphia Association of Golf Course Superintendents (PAGCS) opened the line of communication between superintendents, club officials and the USGA.

Jim Sklorusky, Northeast Region agronomist for the USGA, discussed previous years' damage from upstate New York and Montreal. David Oatis, director of the Green Section's Northeast Region, discussed communication with club membership and talked about what superintendents can expect during the

Continued on page 20

Judge: Golf balls belong to golfers

Golf balls driven into a lake belong to the original owner, according to a ruling by a judge in Vancouver, Canada.

The decision came in a case prompted by a youth who was retrieving balls from a water hazard. He was accused of stealing the balls, but the judge ruled the balls belong to the golfers, not the course.

Mayfair Lakes Management Corp. maintains a contract with a scuba diving company to recover balls lost in its lake. These balls are valued at more than \$19,000 a year.

The course is considering requiring a waiver from golfers, who would relinquish ownership of balls lost in the lake.



Fourth-grade students take 'teacher' Moore to school



Botany bottle an everyday help

By JIM MOORE

Traveling around the country with the U.S. Golf Association Green Section, meeting out advice to turfgrass professionals, I was surprised when I left my son's fourth-grade class having learned an important lesson myself — one I apply extensively to my research now.

In the midst of my visit, the students showed me the terrariums (they call them "botany bottles") they made out of old two-liter soda bottles.

Turns out, the terrariums are the perfect size for samples I remove from golf greens with a cup cutter to try and

Continued on page 22

Jim Moore is a United States Golf Association Green Section agronomist, director of the Mid-Continent region. He lives in Waco, Texas.



COMMENTARY

Travel, turf trouble the consultant's lot

By JIM MOORE

Traveling around the Mid-Continent region, looking at golf courses, trying to figure out what is happening where, the endless writing of Turfgrass Advisory Service (TAS) reports, and way too many fast-food meals. Running in airports, standing in lines, glaring at the jerks who ignore boarding instructions, getting lost everywhere, and figuring out how to turn the lights on in twenty different rental cars.

On the more serious side, there is worrying about the superintendent and course

that are in trouble, wishing you could come up with a magic cure, dealing with the clubs that want more but simply can't fund the improvements, and the constant balancing act between spending time "on the road" and trying to find more time to spend with the family.

After nine years of dealing with these challenges, I have decided the only means of survival (only 20 years to go) is to

Continued on page 23

Mount Pinatubo fallout

Ashes to ashes, dust to dust at Clark AFB course

By HAL PHILLIPS

ANGELES, The Philippines — When Mount Pinatubo blew its top here in October 1991, a layer of ash blanketed the 18 holes at nearby Clark Air Force Base, which soon closed its doors for good. In the frenzied retreat from lava and ash, the course suffered another indignity. It was looted: irrigation heads, cups, yardage markers, even door knobs were stolen.

Things have turned around at the site, as

a private corporation — Mondragon International Philippines Inc. — will refurbish the course to anchor a new destination resort. But the ash — which Filipinos call lahar — has created an agronomic poser for turf consultant Neil Noble and Honolulu-based architects Nelson, Wright, Hawthorn.

"They've got a real good loam underneath, but there's a four-inch layer of ash on top of everything," said Noble, an

Ohio State graduate who heads Honolulu-based Environmental Turf Systems.

"The ash is real sandy because this bit fell so close to the actual volcano [about 15 miles]. From a water filtration standpoint, the eruption basically top-dressed the whole site.

"I tested the ash and came up with high levels of phosphorus, potassium and calcium," Noble continued, "which are

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SuperFocus

Hoolehan sets out to prove bent can be grown in Hawaii

By HAL PHILLIPS

KANEEOHE, Oahu, Hawaii — Superintendent Sean Hoolehan looks after Koolau Golf Club, which sports the only bentgrass tees and greens on Oahu. He'd like to take credit, but he knows circumstances forced the move.

"The site dictated it completely," said Hoolehan, who was brought in during construction of this 3-year-old Dick

Nugent design. "It would have been impossible to maintain Bermudagrass greens on this site. It's not the temperature — It's the mountain range. We have a 3,000 foot vertical range backing right up to the golf course. By 2:30 each afternoon, the whole course is cast in shade.

"We also get such high rainfall, the Bermudagrass gets real spindly and the ground so spongy, we can't mow it," Hoolehan continued. "We get about 100 inches of rain annually. And because of the mountains, it varies radically all over the course. For instance, I get 80 to 90 inches on the third tee and 130 on the 15th tee, because it's closer to the mountains."

Koolau (pronounced Ko-oo-lau) is one of Hawaii's most interesting courses: In addition to the bentgrass greens and tees, it's a daily-fee facility in the land of upscale private and resort courses. Further, it boasts the highest slope rating, 162, in the United States (see related story).

How did Hoolehan end up here? It's a Chicago story...

Born and raised in Oak Park, Ill., Hoolehan discovered his love for agronomy while working for Bob Brame (now a Green Section agronomist) at Timber Trails in nearby La Grange. After completing Rutgers' two-year program in turf management, he returned to the Chicago area and took an assistant's job at Ruth Lake in Hinsdale.



Sean Hoolehan

"Sean was Ray Scheid's assistant at Ruth Lake," explained Tim Nugent, Dick's son, who takes up the story. "A while back, my dad did some renovation work out there and worked with Sean."

Meanwhile, the Koolau project was taking shape on Oahu. It was conceived in the late 1980s, when Japanese money was plentiful and the

appetite for Hawaiian real estate considerable. A noted Chicago-area designer, Dick Nugent was retained by Koolau's Japanese developer.

Just when the Nugents and design consultant Jack Tuthill were ready to begin construction, they bumped into Scheid's old assistant.

"Jack and Dad were at the Hawaiian Open and they ran into Sean," said Nugent. "My dad said: 'What are you doing here?'"

Turns out Hoolehan's wife, Kathy, was in the Navy and had been transferred to Pearl Harbor. Todd Nicely — then general manager and head pro at Navy Marine Golf Course — offered Hoolehan a job as night waterman and events accelerated.

"Within a year I was head superintendent," Hoolehan explained. "My expectation wasn't to be a superintendent out here right away. The culture was different. I had no experience with warm-season grasses. It was just one of those things. I was just looking for a job that would teach me how to grow Bermudagrass."

After their fateful meeting at the

Hawaiian Open, Dick Nugent hired Hoolehan as Koolau's first superintendent.

However, somewhere between the end of construction and the grow-in, the bottom fell out of the Japanese economy.

What had been conceived and built to be an upscale private course ("You should see the clubhouse," said Tim Nugent. "It's 100,00 square feet.") was opened as a daily-fee golf course — during a recession.

Hoolehan had some adjustments to make.

"The hardest thing has been working through this economic slump," he said. "During construction, we thought we'd maintain it with crew of 35 guys. We use 16 now. But you learn a lot from that — how to make do. You learn a lot more than you would with a blank check."

"Sean is the glue that has held the whole thing together," said Tim Nugent. "And the course just wouldn't be what it is without him. He was the only superintendent out there who said you could grow bent."

"He said: 'You plant it; I'll grow it.'"

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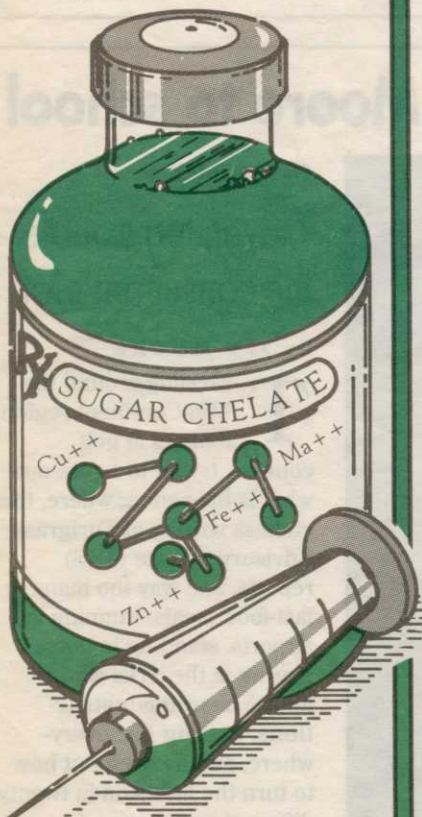
The agronomic transition from Chicago to Oahu wasn't easy for Hoolehan. In Chicago, you learn to be stingy with fertilizer, he said. On Oahu, year-round weed growth demands a heavy hand with fertilizer and a light touch with pesticides.

"The most challenging thing here is weed control because there is no off-season," he said. "All the annual weeds in Chicago are perennials in Hawaii. Weed control is the measure of any good

Continued on next page

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Koolau altitudinal in more ways than one, USGA finds

By HAL PHILLIPS

KANEEOHE, Oahu, Hawaii — Move over, Pine Valley; make way for the new slope king.

That's right, Koolau Golf Club has unseated the King Kong of Clementon as America's most ornery golf course. The Dick Nugent design topped out at a near-Satanic 162 on the United States Golf Association slope meter, though the official USGA limit is 155.

"The developer wanted the longest course in Hawaii," said Tim Nugent, Dick's son. "So that's what we gave him. It's 7,300 yards from the back."

"It's off the charts," said superintendent Sean Hoolehan, who has been on board since construction began. "But I honestly think you could not have built this course, on this site — and still be environmentally conscientious — without making it this hard."

"Dick [Nugent] said: 'I'm not going to move all that dirt just to make it easier.'"

Koolau's original rating was 152, as determined by the Hawaii State Golf Association. But the greens had so many different target points, the course was resloped. The rating jumped to 158.



Koolau's 1st hole gives golfers an indication of the "highly sloped" challenge ahead. The Oahu island course has the highest slope in the United States — supplanting Pine Valley as king.

Dean Knuth, the USGA's senior director of handicapping, didn't believe Koolau could be so high, so he decided to slope the course himself. Knuth was right — the course had been misjudged.

Knuth rated it 162 from the back, 158 from the blues.

"Before I played it, I was somewhat dubious," said Knuth, who developed the slope system and personally sloped Pine Valley at 153. "I mean, how could that course possibly have such a high slope rating? Not only was it not too high, I discovered they were being too conservative... Basically there are no bail-outs and you have forced carries

over jungle, where a ball can neither be found nor played."

Why does the USGA stop at 155?

"It's a linear system," Knuth explained. "If the slope is allowed to go too high, it becomes non-linear and skews handicaps."

Consequently, the Koolau scorecard reads: Gold tees — 155*; blue tees — 155*; white tees — 154.

The asterisk tells the true story, if you have the stomach for it.

"It's a ball-eater, that's for sure," said Hoolehan. "You've got to keep it in play. But it's really not that bad. It's hard, but it's fair."

Penn State's Hamilton develops new mulch 'crucial to turf seedbeds'

UNIVERSITY PARK, Pa. — Penn State's College of Agricultural Sciences has developed a new mulch for landscapers and turfgrass professionals.

Pennmulch (patent pending), developed by agronomy instructor George Hamilton, is made from chopped newsprint, magazines and other paper, and can be used in place of traditional mulching materials.

In addition to creating a use for large volumes of wastepaper, the product addresses a long-standing need in the industry.

"Mulching is crucial in turfgrass seedbeds for holding moisture, reducing erosion and protecting seeds from temperature extremes," said Hamilton. "But traditional mulches present problems. Many professionals use hydromulch — a mixture of wood fiber or ground paper combined with fertilizer and seed, which is sprayed onto seedbeds. Hydromulching requires an expensive machine and a high-volume water source for filling the hydromulcher.

"The alternative is straw, which often contains weed seeds, tends to blow away, and is difficult to store and handle. In addition, soil microorganisms that break down straw also deplete soil nitrogen."

Pennmulch is shaped into small, green pellets that are easy to ship and store. "It looks exactly like rabbit food," Hamilton said. "The pellets can be spread by hand or by many types of conventional spreaders owned by turfgrass

professionals and landscapers. A starter fertilizer can be combined with the product so that fertilizing and mulching is done in one step."

When wet, the pellets expand to several times their original size so that a small amount covers a large area. Also, because the mulch is made entirely of paper, there's no danger of seedbeds being contaminated by weed seeds, he said.

While Pennmulch currently is marketed only to commercial

operations, Hamilton hopes to make it available to homeowners soon. "The product has a large marketing potential," he said. A Pennsylvania Department of Agriculture survey shows that in 1989 homeowners spent nearly \$19 million on grass seed.

"Pennmulch has great possibilities for retail because it can be sold in any size bag, it is shipped and stored much more easily than traditional mulches and the shelf life is unlimited," he

said. "Although it was designed for use in grass seedbeds, we're looking into other uses, such as vegetable gardens and ornamental plantings."

Research on the product began three years ago with a Ben Franklin Partnership Environmental Technology Fund, which included in-kind support from the College of Agricultural Sciences.

Pennmulch is being manufactured by Penn Mulch, Inc., of

Pittsburgh. Last fall, 50 tons were produced and about 40 tons were sold to turfgrass and landscape companies.

"We're researching new sources of paper, development of a low-cost pneumatic spreader to apply the mulch, and variations of the product containing fertilizer and grass seed," Hamilton said. "We're also implementing an extensive marketing plan. I'm confident Pennmulch will establish a niche in the industry."

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Koolau's Hoolehan

Continued from previous page
superintendent in Hawaii.

"The bentgrass usually survives all year long, but we make no effort to keep it. We use no herbicides. We have a real strict IPM (integrated pest management) program here. Depending on the time of year, we want to see the disease before we spray. We have an IPM manager whose sole job is to be on top of disease

"We just can't justify the use of fungicides. We get hammered by dollar spot this time of year, and Bermuda merges about this time, too. But we just let it go."

Though Koolau sports bentgrass tees and greens, the fairways are overseeded with Bermuda during the winter season.

It's ironic that Hoolehan traveled to Hawaii and spent all that time learning to deal with warm-season grasses, only to look after a course with wall-to-wall bent, save the fairways a few months each winter.

"It's sort of ridiculous," he said with a laugh. "But you know what else I learned out here? It's hard to kill Bermudagrass."

PGA Tour honors Myers for top-conditioned TPC track — Summerlin

By MARK LESLIE

The story of an Indiana farm boy who made good has continued for Gary Myers. The superintendent at TPC of Summerlin until March, Myers was presented the PGA Tour's annual Tournament Players Clubs Golf Course Maintenance Operations of the Year Award for 1993.

TPC Director of Golf Course Maintenance Operations Cal Roth presented Myers the award, citing excellence in course conditioning

for the members and the Las Vegas Invitational; personnel training; safety; budget and equipment management; and innovation in operational improvements for the TPC of Summerlin and the TPC Network.

"Because Gary has done such an outstanding job at Summerlin, he has been promoted to the TPC of Scottsdale," Roth announced.

Myers compared the challenges presented by his jobs at Summerlin and Scottsdale.

Summerlin, he said, was "a great design [Bobby Weed and Fuzzy Zoeller], built by quality contractors and with no shortcuts taken. It was the most-finished TPC course to open, and our challenge was to maintain it at the level of expectation everybody had at that time. We did."

At the 36-hole TPC of Scottsdale, Myers faces 110,000 rounds a year, including a number by many PGA Senior Tour golfers who call it home.

"It's a challenge in itself to maintain quality turf conditions under that enormous amount of play," he said. "But we also have to be aware that the touring seniors spend a lot of time playing here and it takes extra special care because of that."

TPC of Scottsdale hosts the Phoenix Open in January. But that's nothing new for Myers. During his term as superintendent at Desert Inn Country Club in Las Vegas from 1982-90, he prepped

the course for 17 or 18 PGA, LPGA and Senior PGA tournaments. Regular PGA and LPGA Tour events were hosted two weeks apart. Only two other courses host even two major PGA tournaments.

Myers, who studied engineering at Purdue University, graduated in 1978 from the winter school at the University of Massachusetts' Stockbridge School. He also worked from 1979-82 at Country Club of Green Valley south of Tucson.

Winter kill causes major problems

Continued from page 17
coming season.

Keith Happ, USGA agronomist with the Mid-Atlantic Region, illustrated that the winter damage is widespread across the region. They all discussed how superintendents should proceed to repair damaged areas.

Some of the clubs hardest hit by winter injury will not be opening until "well into May," said superintendent Thomas L. Grimaldi of Tavistock Country Club, who spearheaded efforts to organize the meeting.

The Green Section experts outlined several turfgrass recovery procedures, saying superintendents should:

- Restrict traffic as long as possible on renovated and overseeded winter-damaged areas.
- Apply a starter fertilizer to the seed bed, achieve good soil-to-seed contact and use heavier seeding rates for the most rapid recovery.
- Overseed on damaged greens.
- Delay pre-emergent applications.
- Lightly cultivate the surface through spiking, shallow aeration and, possibly, careful slicing.

"Covering the seed with geotextile fabrics could aid germination, and primed seed will germinate better than traditional seed at lower soil temperatures," the Green Section said.

They also said perennial ryegrass should recover rapidly and well after overseeding.

The meeting was videotaped, and an edited edition is available at cost. Copies are available from Judy Policastro at 201-379-1100.

DEAD AIR FINDINGS IMMINENT

Preliminary results from the Georgia Turfgrass Foundation's flagship project — the dead air syndrome research green — should be forthcoming in mid-summer. Overall project coordination has been the responsibility of Jim Dusch and Ken Mangum, who have donated routine maintenance of the green. However, donations of cash and materials are still needed for this \$90,000 project. For further information, contact Douglas Moody at 404-975-4123.

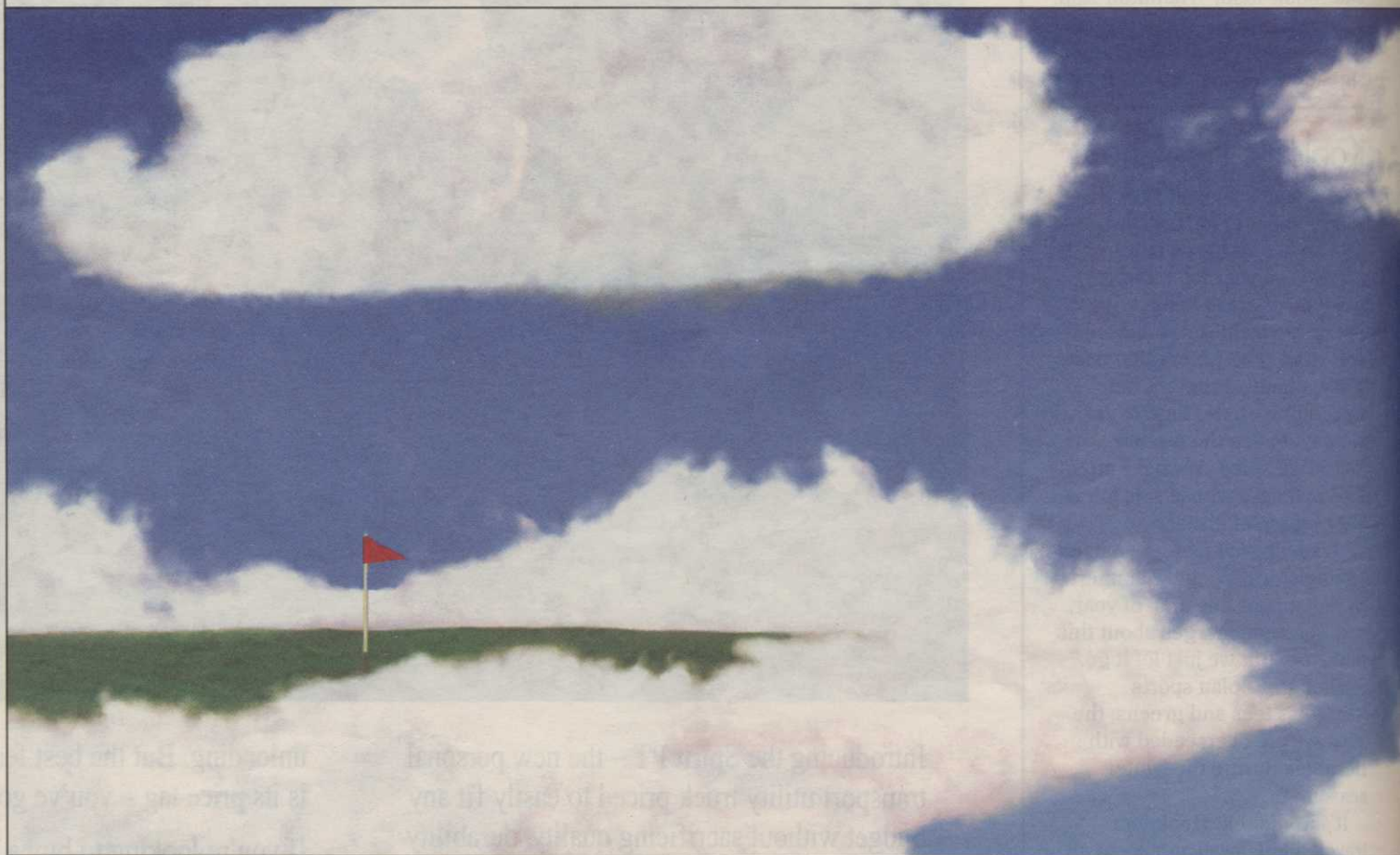
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Ashes to ashes at Clark

Continued from page 17

usually lacking in tropical soils. There were no toxic levels, which surprised me. There was a little copper, but nothing significant."

"But any time you have different soils you have an interface problem. It's like a perched water table in a green, which might cause root zone problems. This should affect water movement until they break up the ash and mix it all together."

"The ash is basically a soil amendment."

Architect Robin Nelson — whose firm has designed courses directly on top of cooled lava — will add nine holes and give the original 18 a complete makeover. The ash has affected the project, he said, but it's nothing he and Noble can't handle.

"The ash has pretty much been dragged off and stockpiled in the rough," said Nelson. "The only problem comes if the ash solidifies in a single layer. But we plan to mix it right in with the soil."

"It's a great site. A lot of huge monkey paws, which are acacia trees... There's also a ravine that runs through the entire site and is completely filled with ash. It will become a huge sandy waste area when we're done."

The irrigation system will be designed to deal with the "unlikely event" of another eruption at Pinatubo, said Nelson. While no manner of rotor can deal effectively with flowing lava, the Clark course will be equipped with an extremely powerful irrigation system.

"Basically," Nelson said, "we're going to have fire hydrants so you can blow the ash off the course."

'Par for the Course' gets pro-environment word out

By HAL PHILLIPS

LAWRENCE, Kan. — There is a new entry among the myriad golf-related, 30-minute TV shows that now dot the cable landscape.

"Par for the Course," produced by the Golf Course Superintendents Association of America (GCSAA), made its debut in late March and can be seen in syndication on the PRIME Network. The half-hour show will concentrate on golf's

environmental attributes and other course management issues, in addition to features on etiquette, rules, instruction, places to play, and trends shaping golf's future.

The series will run 13 weeks on PRIME, which is distributed to 22 regional sports networks nationwide, serving more than 40 million subscribers. Its global division, Prime International, feeds programming to affiliates in Asia, Europe and South America. So far, 19 of PRIME's 22 affiliates have agreed to air "Par for the Course."

"We're pleased with it," said GCSAA Executive Director and Chief Executive Officer Steve Mona. "Obviously, it's a little too early to tell how it's being received. Our audience is the average golfer and we haven't had a lot of contact with him yet."

"But when we met with our members in Dallas, we gave them a sneak preview and they liked it."

Scott Smith, GCSAA public relations manager, is also co-producer of "Par for the Course." Smith's co-producer and the show's host is Duke Frye, a former sports anchor at KPRC-TV, Houston. He also hosts and produces programs for the Kansas City Royals Television Network and provides occasional play-by-play for PRIME.

According to Smith — who also boasts experience as a writer/producer of video, film and cable programs — the entire series will carry a price tag of "less than \$200,000."

"It's a substantial investment," said Mona. "But we feel like it's money we need to spend. We have to get the word out and TV's the medium that allows us to do that with the most people. The average, rank-and-file, 15-handicap golfer only has a vague idea of what our members do."

"We're not trying to promote our organization. We want to give the public a better understanding of what our members do."

The April edition of "Par for the Course," for example, included a feature on the Audubon Wildlife Sanctuary Program; a new product that bills itself as an alternative to metal golf spikes; golf instruction with Larry Nelson; and rules segment hosted by USGA rules official Herb Stevens.

United States Golf Association Green Section Director Jim Snow made a cameo appearance and at least five GCSAA members were quoted as experts on turf care and wildlife protection.

"We feel like we have educated, articulated members," said Mona. "That's part of this whole push. We have people out there who are the stewards of the club's greatest asset, and that should be appreciated."

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Homemade botany bottle hastens disease growth and identification

Continued from page 17

determine what turfgrass disease is causing problems.

Sitting on my desk under my lamp, the bottle's temperature and humidity are just right for the rapid growth of the pathogen, making identification much easier and faster. It also gives me a constant reminder during the day of how much I enjoyed my day as "teacher."

Here's teacher Mrs. Pickins and her class's procedure for

transforming a two-liter soft drink bottle into a botany bottle, or miniature biosphere:

1) Obtain the kind of bottle with its base glued to the bottom, which enables it to stand up.

2) Fill the bottle with hot water and let it stand for 10 minutes. This will soften the glue, allowing the base to be separated from the bottle. If the base will not come loose, refill the bottle with hot water and

soak it in a sink filled with hot water. If all else fails, place the empty bottle in a microwave for 20 to 30 seconds. (Careful, just a little too long and the shape of the bottle will be distorted.)

3) With the base removed, you should now have a bottle with the filler neck on one end and a hemisphere dome on the other. Use a sharp knife to remove the filler neck. Different height botany bottles can be created by changing where you

make this cut. I have found a good height is to cut about 1/8 inch above the point where the bottle starts to taper in toward the neck. I have found this makes it easier to get the bottle back into the base, since the outside diameter of the bottle (at the point of the cut) is slightly smaller than the inside diameter of the base.

4) Using a hole cutter, remove a plug from the area of the green (or other turf area)

where you suspect disease activity. Square off the bottom of the plug, so it will sit flat in the base, and leave the plug about three inches long.

5) Place the plug in the base and carefully push the dome back into the base.

6) Place the completed botany bottle beneath a light or grow lamp.

You will notice that within a few hours moisture will begin to accumulate on the inside of the dome. This combination of heat (from the light) and moisture will promote rapid disease development, helping you to more accurately identify the pathogen.

The botany bottle can also be used to check seed germination, force a dormant turf to begin growth, and aid in identifying various types of grass. Turf can be maintained for months beneath the dome with only a rare watering and occasional "mowing" with scissors.

...

One more point. During my talk with my son Travis' classmates, we were discussing how scientists of the future would probably have to learn to grow more food and take care of plants of all types with a lot less pesticides than we must use today.

One little girl raised her hand and asked why scientists don't just put something in the plants that insects would not like the taste of. Here was a 9-year-old, all on her own, voicing one of the "cutting edges" of today's plant breeding efforts — the use of endophytes to combat insect damage.

Next time a fourth-grader wants to give you an idea about anything, it would be worth taking the time to listen.

Semler elected head of Wisconsin GCSA

Mike Semler of Bishops Bay Country Club in Madison has been elected president of the Wisconsin Golf Course Superintendents Association.

Semler, who succeeded Bruce Worzella of West Bend Country Club, heads a slate of officers that includes Vice President Mark Kienert of Bull's Eye Country Club in Wisconsin Rapid; Secretary Tom Schwab of Monroe Country Club; and Treasurer Patrick Norton of Cedar Creek Golf Course in Onalaska.

Joe Kuta of Hartford Country Club was newly elected to the board of directors, joining re-elected Directors Scott Schaller of South Hills Golf and Country Club in Fond Du Lac, Bill Knight of Ozaukee County Park Commission in Port Washington and Mike Handrich of Racine Country Club.



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SOLID AGRONOMY

Humor, embarrassment a potent combination, Moore relates

Continued from page 17

try to find a little humor in every situation. Nothing makes a bad day a little more bearable than getting someone to laugh with you — or even at you.

I have found that some of the funniest situations are those that make you cringe a little when you remember them. The combination of embarrassment and humor is a potent one. One of the best I can remember happening to me occurred early in my Green Section career. I had a couple of months on the staff under my belt and was starting to feel like perhaps I could do this job after all. Brimming with confidence (fragile as it was) I was making a TAS visit on a course in Nebraska. Along for the tour were the green committee, the golf professional, and the superintendent — the usual entourage.

Spouting one agronomic gem of wisdom after another, I lead the group through the course until we encountered a green with two, dark parallel lines crossing the surface. Having personally applied charcoal to many a hydraulic leak, I immediately diagnosed the injury. The superintendent laughed and the others on the visit frowned. I bent down to get a closer look and suddenly the lines moved just a bit. Power line shadows do that when the wind blows. We all had a great laugh but I will admit I have yet to make another visit to that course. I expect credibility may be the problem.

With this job, like most jobs, about the time you are having a few doubts about your ability, something happens to make you feel maybe you are doing some good after all. I recently traveled Dallas where one of the fellows on the visit felt the sand in the bunkers was bad because the ball would not hold the green when blasted out. Those of you familiar with my writing might remember I tend not to have a lot of sympathy with player complaints concerning the sand in the bunkers since they are, after all, a hazard.

However, this fellow was adamant that a requirement of bunker sand should be to allow players to impart backspin on the ball. To demonstrate this failing in the existing bunkers, he dropped a couple of balls and tried to blast out. After skulling a couple, he finally lofted one to the green and sure enough the ball rolled when it landed. Credibility thus restored, he challenged the pro to try a couple. The pro blasted away with all his shots landing on the green and rolling just a couple of feet. The player then reasoned the pro was not of average ability so he then handed the club to the superintendent. Now, I thought, is the time to cringe. Instead, the

super blasted out two shots that stopped even quicker than the pro's. Well shoot, I might as well try to.

Dropping a ball, I quickly reviewed the Johnny Miller sand tips I read in 1971, opened the face, swung outside-in, and lucked out.

The ball actually hit and backed up. Case closed!

Unfortunately, there is a sequel to this story. A couple of weeks after this demonstration of my



Jim Moore

playing skill, as it relates to the agronomic condition of the course, I was on a visit to a course in Mexico. The complaint this time was that the greens did not hold an approach shot — even with a wedge. Careful to pick an uphill

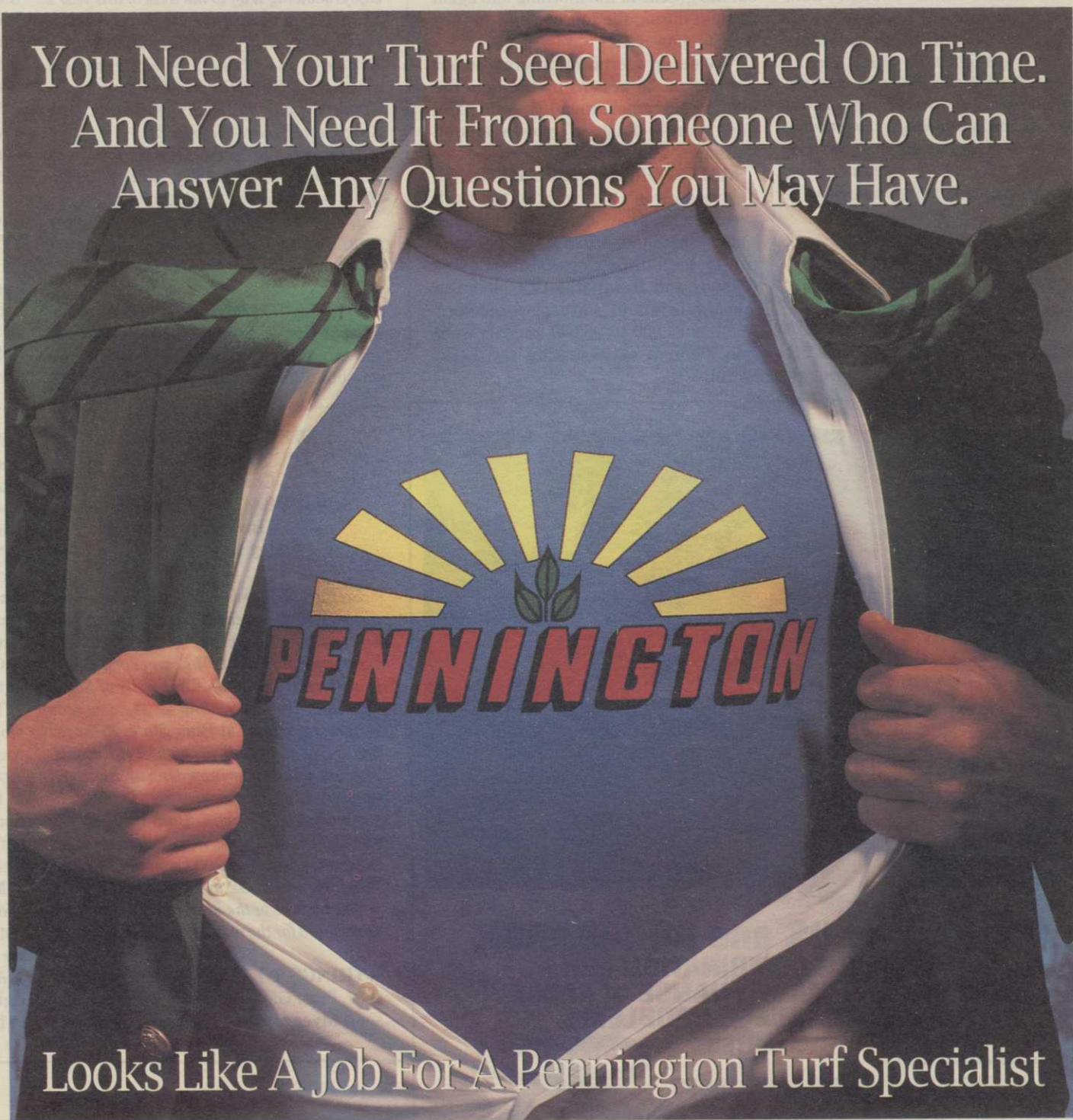
lie, into the wind, and to a green that looked over watered, I decided once again to prove the complaining player wrong by embarrassing him with the fact that even a grass guy can hold the greens.

After shanking the first three shots and nearly hitting one of our group about 90 degrees off line, I gave up and tried to remind everyone I was there as an agronomist — not a player. Big cringe.

DICKISON NAMED TO HALL

ATLANTIC CITY, N.J. — Upper Montclair Country Club superintendent Bob Dickison has been inducted into the New Jersey Turfgrass Hall of Fame by the New Jersey Turfgrass Association. The award is presented annually to a person to recognize their continuing lifetime commitment of dedication, service and achievements contributing to the advancement of the turfgrass industry in the state.

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Tour of Duty

MIKE McBRIDE
Muirfield Village Golf Course
Dublin, Ohio
Memorial Tournament
May 19-22, ABC

"We've either had an unusually wet and cold spring, or we've been spoiled by good weather the last four or five years," said Mike McBride, who will have a crew of people on Frost Patrol from early May until after the Memorial to prevent frost from killing the thousands of annuals planted for this event. "Annuals are not hardy. We try to keep the air temperature around them warm enough with irrigation," he said.

McBride has worked at Muirfield Village since its construction, at which time he was a political science major at Bowling Green State University. Deciding against politics, he completed Rutgers University's two-year turf management program, then returned to the grounds crew in Dublin, earning a promotion to superintendent in July 1985.

McBride said a lot of time, energy and funds were devoted the last year to a major, 16,000-square-foot clubhouse expansion and "a lot of landscaping around it."

THINGS TO LOOK FOR: "Last fall we restored the greens on 10 through

18," McBride said. "That completes our greens restoration project started three years ago." The Penncross bentgrass greens were stripped, resodded with washed sod, and returned to their original contours, with "minor modifications to create some more pinning on the greens."

Ever seen a golf course quad-cut? If all goes well, McBride's crews will double-cut the greens in the morning and again at night during the tournament, so they will Stimp over 11.

"We set up a fertilizer program so our growth will be at zero by the time the tournament comes around," he said. "You don't want a flush of growth around tournament time."

MADE-FOR-TV PREPARATIONS: Television won't pick a lot of the work grounds crews have done, McBride said. They planted more than 200 ornamental trees, including dogwoods, Easter redbuds and Hawthorns that bloom in mid-May to June to "add a splash of color." Another 24,000 to 25,000 annuals were also planted, necessitating the Frost Patrol.



Mike McBride

MELVIN WILLIAMS
Stonebriar Country Club
Frisco, Texas
JC Penney/LPGA Skins Game
May 28-29, ABC

Melvin Williams, 51, graduated from Texas Tech in Lubbock in 1966 and has been a superintendent for 26 years. He has been involved in building and growing in six golf courses. Among his posts have been stints at Los Rios and Village country clubs in Dallas, and Farr Oaks Ranch Golf and Country Club in San Antonio. He joined Stonebriar during construction seven years ago. He enjoys showing it off to the likes of this year's Skins Game competitors — Nancy Lopez, Betsy King, Patty Sheehan and Brandy Burton — as well as a pro-am tournament group of 25 that will include Bonny Blair, Kathleen Sullivan, Kathy Whitworth, Ray Knight and Sandra Haynie.

"This is the easiest week of the year: four players, nine holes each day," said Williams. "It's a lot of fun and really exciting."

It's also absolutely the best time of the year for us. In the fall — if it's a tough summer — the bentgrass greens are a problem."

THINGS TO LOOK FOR: "I think we've been able to do a good job of keeping poa annua out," Williams said. Since the course was built, he has kept poa in check with

pre-emergent treatment — to the point only one green has poa annua and that one just two to three percent.

Meanwhile, Stonebriar and other courses have "a phenomenon called spring dead spot and no one knows why it's there or how to cure it," he said. It looks like brown patch — a one-foot-diameter circles in Bermuda-grass. Since Bermuda-grass grows so quickly, Williams hopes there will be few dead spots by show time, May 28-29.

Like other area upper-end clubs, Stonebriar has wall-to-wall Bermudagrass (Tifway 419) except for bentgrass greens (Penncross), which he has overseeded with Dominant. "It's a struggle to keep the bent alive after mid-July, he said. That's when some crew members spend hours daily hand-watering dry spots.

MADE-FOR-TV PREPARATIONS: TV coverage elsewhere may cover a few holes. For the Skins Game, the camera's eye is on every hole. "Our entire golf course has to be groomed," Williams said. "We have to groom nine holes each day for TV. But I have a big enough crew (20) so we can get ahead of play, rake bunkers, etc."

Because Bermudagrass doesn't stripe as well as cool-season grasses, Williams will apply nitrogen "to get it growing enough to see the striping pattern."



Melvin Williams



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STEWART RICHARDS
TPC AT PIPER GLEN

Charlotte, N.C.

Senior PGA Tour PaineWebber
Invitational

May 12-15, ESPN

Stewart Richards is not only one of the nation's more-educated superintendents, he has more tournament preparation experience than most. The owner of a degree in accounting from the University of South Carolina (in 1979) and of the two-year turfgrass program at Penn State, Richards has prepared courses for eight Tour events. The assistant superintendent at Kenwood Country Club in Washington, D.C., until graduating from Penn State in 1988, he joined TPC at Avenel in Potomac, Md., as superintendent. In 1990 he moved to South Wind, then in 1992 to Piper Glen.

"We try to have the course in the best shape year-round for the members," Richards said.

THINGS TO LOOK FOR: Opened in 1987, Piper Glen is one of few courses that sport Myer zoysiagrass fairways and tees.

"We try to have it in the best condition because it's one of few with it that they do play," Richards said. "It's great. Players love it. I don't know why more courses don't use it."

"We've been green a month and clubs around here are just starting to green up. The ball will stand up on zoysia more. Usually the player who picks a ball will have an advantage."

Crews are cutting the zoysia to 7/16 inch in the fairways and 3/8 inch on tees.

Tall fescue is grown around the greens, slopes and bunkers, while the rest of the rough is Bermudagrass. "The fescue will look its best in May," Richards said. "We're in the transition zone. When Bermuda is dormant the fescue is great; and in the hot summer when the fescue is not so good the Bermuda is."

MADE-FOR-TV PREPARATIONS: "Zoysia loves iron," Richards said. "It brings out the color. So, starting in early March, we start feeding it more iron than nitrogen."

Also, crews will "burn" in stripes left to right on the Arnold Palmer-designed track to highlight the zoysia.

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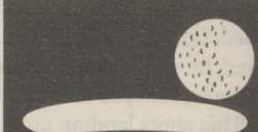
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YIPES! STRIPES

Achieving the chore for half the labor

By **TERRY BUCHEN**

One day I was thinking to myself: "How can we get the appearance of the single-striping effect of a walk-behind greensmower while using a triplex greensmower?"

We had a Toro Greensmaster 3000, purchased in the late 1980s. It had individual reel shut-offs on the outer two reels. We ordered a third reel shut-off for the center reel and installed it after talking with the local distributor, who said it was okay to have all three reels with individual on/off capabilities.

The next step was to call the factory and ask if the center reel could be kept in the "Up" position with the use of bungee chords, while not damaging the up/down hydraulic system. The factory said it was okay because, when the center reel is in the "Up" position, the hydraulic system bypasses the hydraulic system. Having the center reel in the "Up" position obviously helped avoid confusing the operator for the next step.

We began mowing greens using only the two outer reels. The striping pattern was identical to using a walk-behind mower, though it takes a good operator to mow the unmowed area between the mowed stripes.

In essence, we doubled our mowing capacity compared to using a walk-behind unit. The only major difference was the triplex obviously has a flotation head versus a fixed-reel unit on the walk-behind mower.

Doing the victory lap using the two outer reels, both clockwise and counterclockwise, will give the walk-behind appearance as well.

This is a good alternative to the traditional clean-up method of using all three reels, both clockwise and counterclockwise, to help eliminate the dreaded "triplex ring"!

At least two reels must operate in the "mow" position. Please contact the manufacturer at the factory — no matter who makes your triplex unit — to see if it's okay to shut off the center reel and keep the center mowing unit in the "Up" position, so the unit is not damaged.

One extra thought: Install wheel rollers on both the front and the rear of each mowing unit, as the individual reel units will not sway as much. You will get a better and lower height of cut, as the bed knife will be at a better angle.

...

This past January, I was at the British Turfgrass Management Exhibition Seminar '94 in Harrogate, Yorkshire, England, and enjoyed the trade show very much.

On display — and prompting quite a bit of curiosity, with long

lines to match — was a twin-plex greensmower. It's made in Japan by Baroness, is marketed by Saxon Industries, and is called the Saxon Twin.

It is somewhat similar to a triplex greensmower except the center reel is non-existent.

It has height-flotation tires. It's a walk-behind that has a sulky attachment as an option. It has two forward speeds and one reverse.

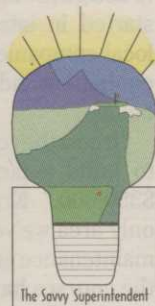
Overall width is 70 inches. The two reel units are 22 inches wide

with nine blades each. The total machine weighs in at 341 pounds. It has an 8 hp engine and the mowing height is 3/16 of an inch with the standard bed knife and will go much lower with a tournament variety bedknife.

I hope that this unit makes its way to America some day, as it has unlimited potential. It is interesting to note the manufacturers in this country experimented with a similar mowing unit back in the 1950s and '60s, but it never made it to market.



The Saxon Twin, manufactured in the United Kingdom.



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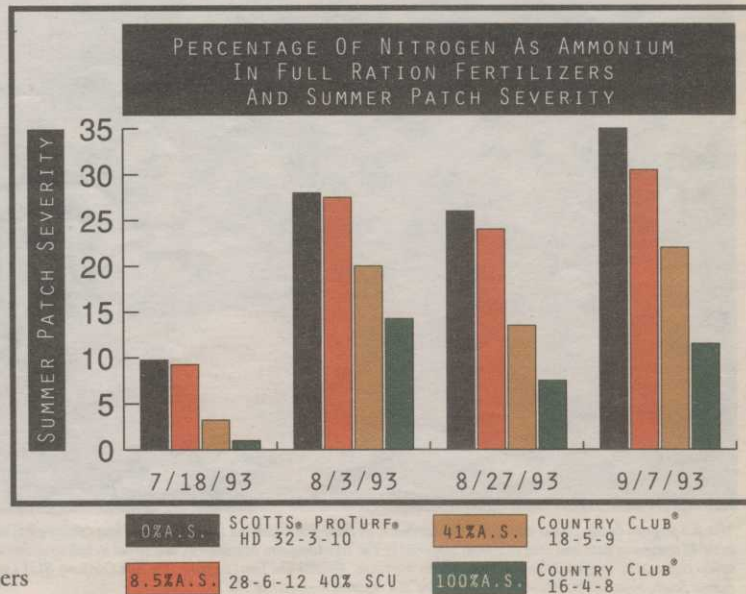
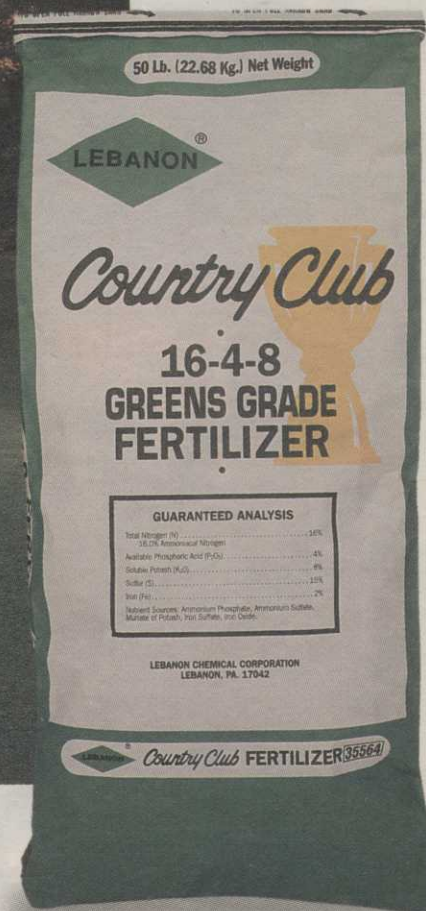
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CIRCLE #119

High school turf program fills the needs of students, courses

By PETER BLAIS

STUART, Fla. — Giving high school students a taste of what it's like to be a golf course superintendent is the goal behind The Bulldog Sports Turf Complex at South Fork High School.

Completed in late 1990, the 20-acre facility includes three par-3 golf holes, putting green and practice range. Approximately 75 students use the complex for educational purposes. Another 60 spread among the golf team,

physical education classes and adult education program practice and play on the three-hole layout.

But turf education is the primary focus.

"A local superintendent who went to Ohio State University told me he saw a lot of kids enter the OSU turf program who had never worked on a golf course," said South Fork turfgrass instructor Keith Krueger.

"They had no idea what they were getting into and were simply

This facility exposes students to the possibility of a golf management career and weeds out those who might never make it.'

— Keith Krueger
turf instructor

overwhelmed. This facility exposes students to the possibility of a golf management career and weeds out those who might never make it."

Krueger credits Vocational School Director Carl Miller with hatching the idea. Miller saw a need to train students to work on the 26 golf courses in surrounding Martin County.

Miller recruited Krueger from Mirimar High School, where he was a horticulture teacher and

oversaw construction of the school's football field.

The educators created an advisory committee that included local architect Charles Ankrom and superintendents Kevin Downing of Willoughby Golf Club and Harry Lincoln of Boca Grove Country Club.

"I didn't know anything about building a golf course, but they walked me through it," Krueger said.

Ankrom donated his expertise to design the facility. Construction started in late 1989 with many local companies providing labor, equipment and supplies at cost or below.

"It cost the school about \$80,000 to build a facility worth about \$350,000," Krueger said. "The only area we've come up short is maintenance equipment. Some of the courses have been very good about giving us their used stuff. But it's generally pretty used up and in need of repair. We were hoping to get some of the major suppliers to donate more."

Several students have used the experience gained on the South Fork facility to obtain full-time positions on course maintenance crews.

Many more are working weekends and summers. A few are preparing for superintendent careers.

"We just had a student who went on to the turf program at Abraham Baldwin College in Georgia come back to do an internship at a nearby course," Krueger said.

Students receive a certificate for participating in the high school turf program. The local branch of Indian River Community College also offers college credit for completing the turf course and passing a college-administered competency test.

Students entering related fields, like landscape maintenance or nursery work, also benefit from time spent on the school course.

"And even if they don't eventually go to work in the turf or plant industry, they earn a lifelong respect for the environment," Krueger said.

The Bulldog complex also helped South Fork's Agriculture Department, which includes the turf program, become one of just 15 schools invited into the state Academics for Career Development and Applied Technology Program.

Teachers in the program — including math, science, English and social studies instructors — gear their curriculum to different aspects of agriculture.

"The teachers meet frequently and coordinate their courses around a certain topic," Krueger said. "It might be plants for nine weeks, then water for the next nine. It lets students see there are connections between what they learn in those subjects and what they want to do in life."

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On the Move

Semler takes on head post at new Bishop's Bay CC in Madison

MADISON, Wis. — **Mike Semler** has moved from Cherokee Country Club to the new Bishop's Bay Country Club here. Semler is the current Wisconsin Golf Course Superintendents Association president.



Mike Semler

ATLANTA, Ga. — **William Shirley** has been named head superintendent of the Capital City Club here. He moves from the Idle Hour Club in Macon. **Wade Thomas**, who had been head superintendent at Indian Hills Country Club in Marietta, replaces Shirley at Idle Hour.

PHOENIX, Ariz. — **Jim Cope** has been named head superintendent at Encanto Golf Course here. The new assistant at Encanto is **John Kennedy**. Cope had been the assistant at nearby Papago Golf Course.

McPHERSON, Kan. — **Mike Simon** is the new superintendent at McPherson Country Club here. Meanwhile, **Darryl Wilson** has taken over as superintendent at neighboring Rolling Acres Golf Club.

ROME, Ga. — **Jimmy Geter** is now head golf course superintendent at the City of Rome Course here.

GENEVA, Wis. — **Clark Rowles** has been named head superintendent at Geneva National Resort here, replacing John Krutilla.

ACWORTH, Ga. — **Wayne Dupree**, formerly assistant golf course superintendent at Centennial Golf Club here, is now the head course manager with **Rick Nelson** taking the club manager position. Nelson had been the golf course superintendent at Milledgeville Country Club in Milledgeville.

FLAGSTAFF, Ariz. — **Dan DeVere** has left Silvercreek Country Club and accepted the general manager/superintendent position with Flagstaff Golf Maintenance Co., a subsidiary of Continental Country Club and Flagstaff Golf Association. In his new position, DeVere oversees operation of two 18-hole golf courses: the public Elden Hills and the private Aspen Valley.

KENOSHA, Wis. — **Duane Lange** has been appointed the head superintendent at Maplecrest Country Club here.

MARYSVILLE, Kan. — **Phil Thielen** has been named head superintendent at Marysville Country Club here.

MARIETTA, Ga. — **Steve Lukowski** has been promoted to head superintendent at City Club of Marietta here. Lukowski had been the assistant superintendent.

SHAWANO, Wis. — **Steve**

Dobish has been named the head superintendent at Shawano Lake Golf Club here. Shawano Lake was formerly known as Shalogoco Country Club.

DALTON, Mass. — **Mike Gunn**, former assistant superintendent at Stockbridge (Mass.) Golf Club, has taken over the head superintendent post at Wahconah Country Club here. Robert Tyre

Jones played his last recorded round at Wahconah.

In other news out of Georgia, **Doug Witt** is the new head superintendent at Hard Labor Creek Golf Course in Rutledge, while Robert Womac has accepted the top job at Big Canoe Golf Course in Big Canoe. **Tim Roskos** has been named head super at Lake Dow Golf Course — now

under construction in McDonough — and **Tim Kinnelly** has moved from Maryland to take the head superintendent's position at The Farm in Dalton.

WICHITA, Kan. — **Ron Reese**, past president of the Kansas Golf Course Superintendents Association, has accepted an appointment as golf course superintendent at Hidden Lakes Golf Course here.

Robert Murrow Jr., is the new superintendent at Augusta Country Club in Kansas.

A Few Plugs For A Zoysiagrass That Doesn't Even Need Any.



Less Water.

Sunrise Brand seeded Zoysiagrass is exceptionally drought tolerant — requiring little or no watering in many areas.

More Wear and Tear.

In wear tests, Sunrise Brand seeded Zoysia far outlasts other warm-season varieties.



Sunrise Brand seeded Zoysiagrass from Jacklin Seed and International Seeds. It's everything you want from a Zoysiagrass. Without the plugs.

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Sunrise Brand seeded Zoysia needs infrequent mowing and little or no fertilizer to maintain its thick green appearance.



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Sunrise Brand Zoysia is seeded. So you can have beautiful turf in weeks, instead of years from plugging.

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Jacklin Seed Company, 5300 West Riverbend Avenue, Post Falls, Idaho, 83854-9499, 208/773-7581, FAX 208/773-4846. International Seeds, Inc. P.O. Box 168, Halsey, Oregon, 97348, 503/369-2251, FAX 503/369-2640

Sod producers talk business

NEWPORT, R.I. — Turfgrass sod will be featured at the American Sod Producers Association's annual Summer Convention and Field Days here July 27-29. This behind-the-scenes showcase highlights equipment, products and services considered important elements of producing sod for home and commercial use. The convention opens Wednesday, July 27, with committee and annual business meetings and an educational program, all at Newport Islander Doubletree Hotel.

Thursday will be devoted to exhibitor product and equipment displays, and demonstrations and viewing of ASPA seed test plots. Friday is tour day. Attendees will travel to the University of Rhode Island Agriculture Experiment Station in Kingston, Tuckahoe Turf Farms and Washington County Turf Farms.

For more information, contact Thomas Ford, American Sod Producers Association in Rolling Meadows, Ill.

USGA REPORTS

Scientists take EPA's pesticide fate model to task

Continued from page 1

of herbicides through soils used for agricultural crops.

Using small greenhouse lysimeters, the GLEAMS model prediction was compared to actual values for a 22-inch soil profile very similar to United States Golf Association (USGA) putting green specifications.

Lysimeters are small bucket-like devices with a collection tube at the bottom to determine what

pesticides leach through the soil profile. The USGA-recommended gravel blanket and intermediate sand layer were included in the profiles.

Two different putting-green, root-zone mixes consisting of 85:15 and 80:20 by-volume ratios of sand and sphagnum peat were placed in small greenhouse lysimeters. Tifdwarf Bermuda grass was established onto the lysimeters and mowed at

putting-green height.

The 2,4-D, a broadleaf herbicide, was applied in two applications 15 days apart. Once the herbicide was applied, the lysimeters received a simulated rainfall of one inch on Fridays during the 120-day experiment. One-quarter inch of water was applied on the rest of the days of the week to simulate irrigation.

Daily temperature changes were carefully monitored so this information, along with the rest of test parameters, could be entered in the GLEAMS model.

The results demonstrated the GLEAMS model over-predicted the amount of 2,4-D that would leach through each putting-green root-zone mix. Only minute quantities of 2,4-D were detected in the water that leached from the lysimeters.

The extraction and analytical methods were developed to detect levels of 2,4-D at 5 micrograms per liter (5 parts per billion or 5 ppb) or higher.

Peak 2,4-D amounts of 2 micrograms per liter (2 ppb) or less were found in the water samples removed from the bottom of the lysimeters.

Only a trace of 2,4-D percolates through the rooting media, and the concentration is several orders of magnitude less than the MCL (maximum contamination level) standard of 70 micrograms per liter established by the Office of Drinking Water, U.S. Environmental Protection Agency, explained Smith.

"Even though the GLEAMS model greatly overestimates the observed herbicide load," he added, "the maximum predicted concentration of 40 micrograms per liter is less than the MCL standard established for 2,4-D."

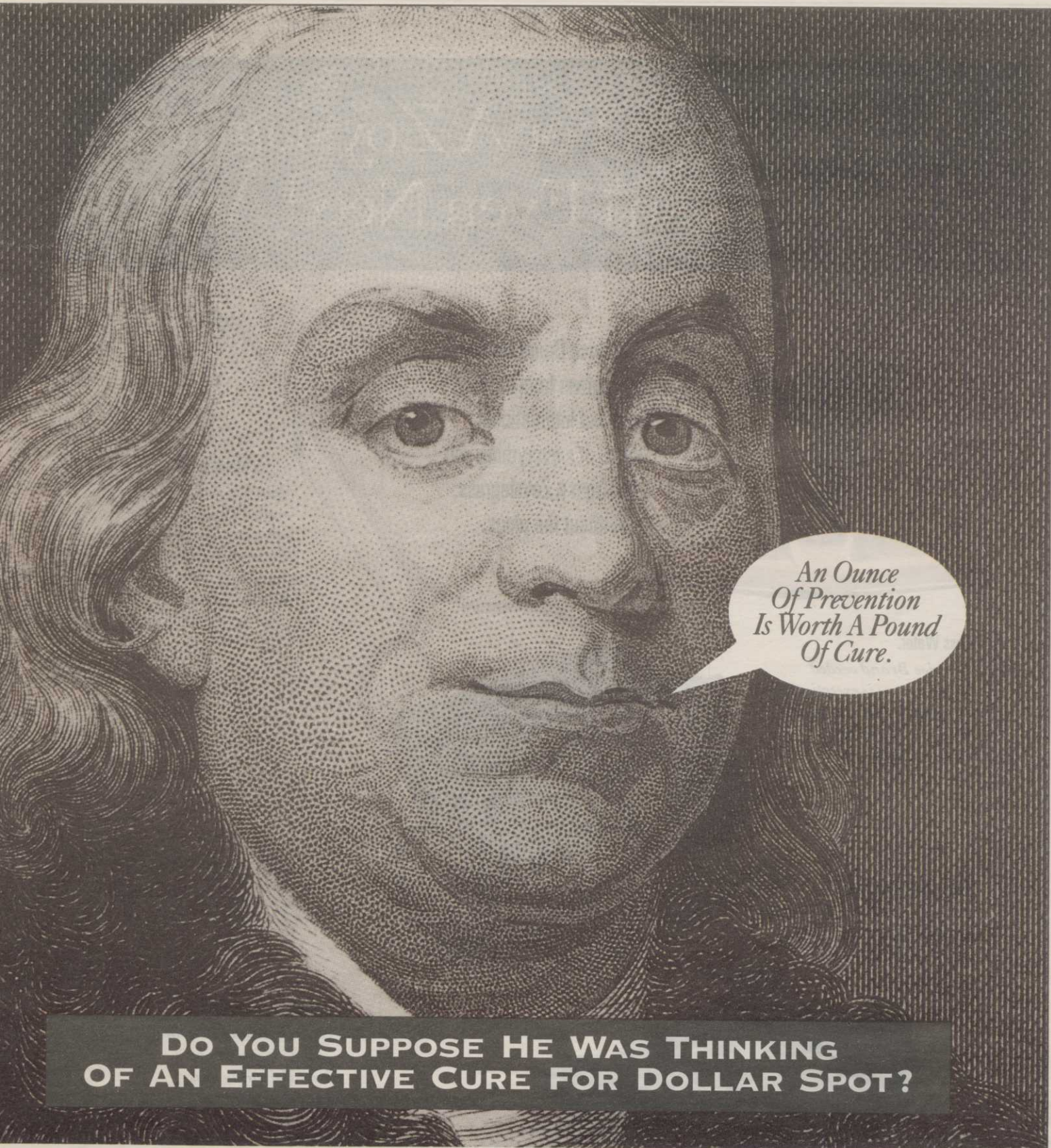
Differences between the measured and predicted percolation of 2,4-D may be due to a lack of understanding of herbicide fate on the dense surface of turfgrass leaves and the role of thatch, Smith said.

The inability of the current GLEAMS model to adequately predict surface evapotranspiration (ET) and water movement through the turfgrass/soil system are additional cause for concern.

"Our data indicate that the dynamics of the sod and rhizosphere, immediately below the soil surface, have not been thoroughly defined," concluded Smith.

"There is an urgent need to take the results from USGA-sponsored pesticide fate research projects, as well as other pertinent research, and overhaul the mathematical models for use on golf courses."

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



An Ounce Of Prevention Is Worth A Pound Of Cure.

DO YOU SUPPOSE HE WAS THINKING OF AN EFFECTIVE CURE FOR DOLLAR SPOT?

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fungicide, it also provides longer residual than any other systemic. While giving added protection against eleven other major diseases. Which means turf stays healthier longer, and you get consistently beautiful results. And should anyone want to know how you did it, just tell them you took the advice of an expert.



On The Green

FOR THE BIRDS

Birdhouse plans are big savers for the maintenance budget

By TERRY BUCHEN

There are some excellent hidden benefits to joining the Audubon Cooperative Sanctuary Program for Golf Courses, and our club just re-upped its membership. It's the best \$100 a year our club has ever spent.

The Audubon Society of New York operates this program nationwide in conjunction with the U.S. Golf Association Green Section, and one of its not-so-obvious benefits is public relations. The society sends press releases to media and others you want to receive them in your community.

This has immensely helped superintendents' public relations efforts, especially in environmentally sensitive communities. Even clubs or courses that like to keep a low profile have used the press releases to great benefit. Probably the best use of Audubon press releases has been by grow-in superintendents in local

newspapers, township newsletters, etc., to keep the general public "happy" about new golf course developments.

Another membership benefit is the blueprints the society furnishes to members to build bird houses, nesting shelves and nesting boxes in-house with their maintenance staffs. We built 50 of these structures last winter and saved our club about 75 percent of what it would have cost to buy them from the usual sources.

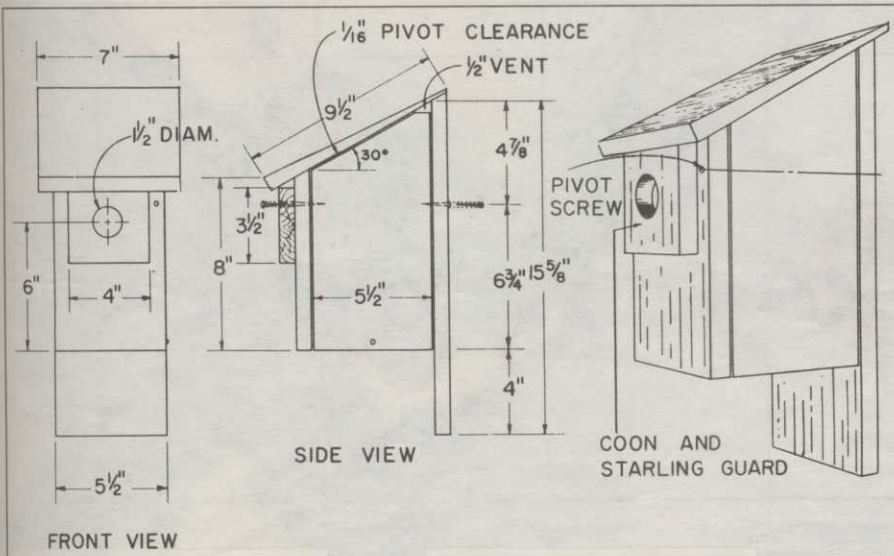
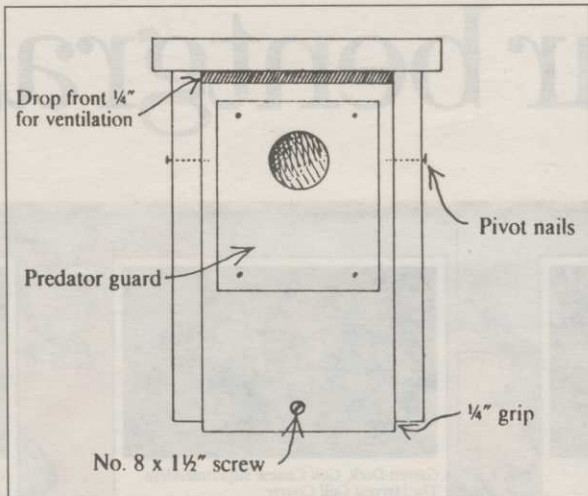
Here are a few sample blueprints that we used and we hope others can use.

There are now more than 1,500 member golf courses in the Audubon program. Joining helps the environment—and public relations.

Interested superintendents may contact Green Section agronomists nationwide, or the Audubon Society of New York at 131 Rarick Road, Selkirk, N.Y. 12158; telephone 518-767-9051. They will send an invoice and/or brochure.

BLUEBIRD HOUSE HINTS

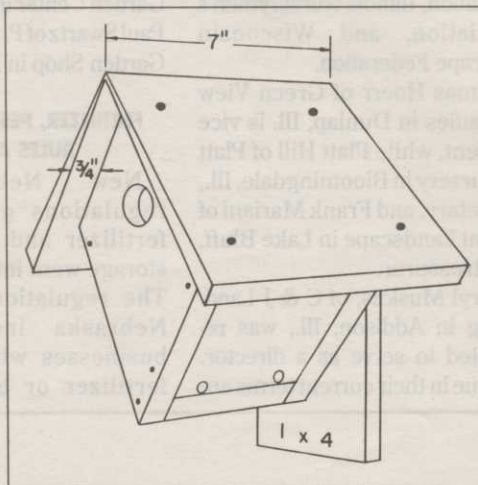
Paint the outside of the box any dull color. Don't use white. Face the box opening to the southeast. Roughen the inside surface of the front piece so young birds can cling to it for feeding and to exercise their wings before their first flight. A rough surface can be made by sawing slots 1/8 inch deep, punching shallow holes with a screwdriver, tacking a strip of 1/4-inch hardware cloth, or glueing small scraps of wood.



TREE SWALLOW SPECIALTIES

Tree swallows, like wrens and bluebirds, are attracted to single-unit, enclosed houses. The three do prefer different habitats and locations in which to nest and rear their young. Tree swallows feed on the wing and seek open agricultural fields and meadows or treeless and shrubless wild areas as their nesting places. A nest box must be placed in the open on a fence post or special box. This graceful swallow doesn't care much about the height of its nest cavity, provided the above requirements are met. Swallow boxes are best placed five to six feet above ground. Spacing of boxes is necessary because birds space themselves naturally during the nesting periods.

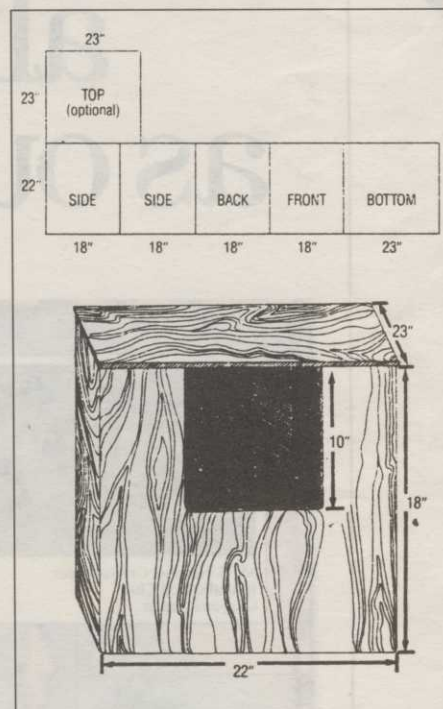
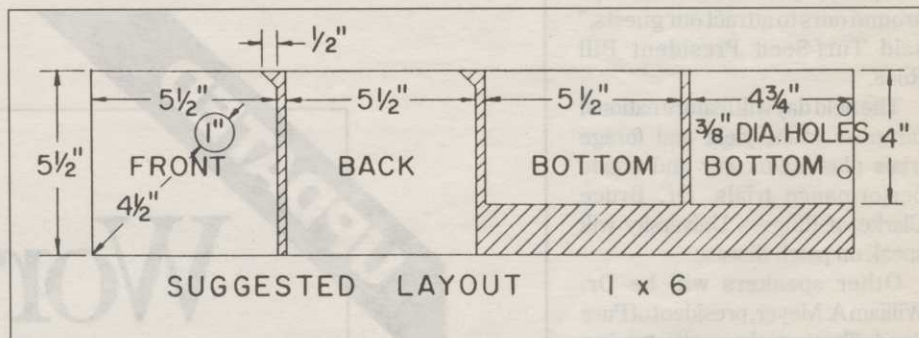
Drawings and information are from the Audubon Society of New York and University of Wisconsin-Extension



WREN HOUSE TIPS

Wrens are attracted to single-unit, enclosed bird houses. To attract house wrens, place the box very close to or actually in the cover of a bush or small tree. Wrens seek the shade and protection of thick bushes, where mated pairs find nesting materials and food for themselves and their young. The box may be placed three to 10 feet from the ground. If cover is available, wrens will nest as high as 15 feet from the ground.

The wren builds the bulk of its nest of stick. You can encourage wrens to use your box by placing nesting material near the boxes.



BECKONING BARN OWLS

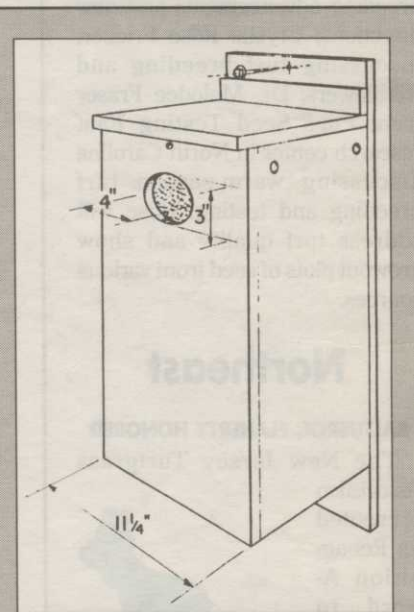
The barn owl is one of the most skilled hunters of all raptors. It has been determined that one pair of barn owls and their young can consume 25,000 mice a year.

If you are to encourage them to nest, discontinue use of rodenticides. Study the above diagram, then fasten the sides to the front. The back and bottom are attached afterward. Put the top on after the box is installed.

Since barn owls do not bring nest materials to their nests, cover the bottom with one or two inches of wood shavings or pine straw. Do not paint the inside of the box.

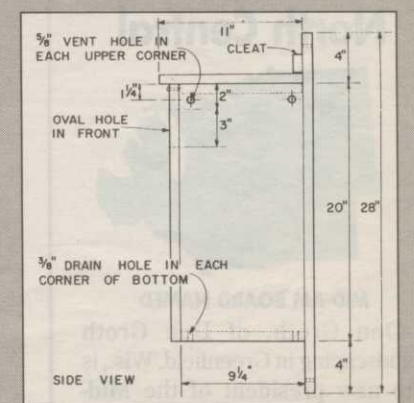
Make sure no nails protrude from the wood. Barn owls prefer to nest in buildings, so face the box into the barn or building. Secure the box onto a stud and install it as high as possible to lessen human disturbance and help to protect the owls from snakes, raccoons and cats.

The nest box will also work when wired high in a large tree placed away from prevailing winds. When outside, it can be made inaccessible to owl predators by placing a 30-inch-high metal sleeve around the tree.



JUST DUCKY FOR WOOD DUCKS

Though wood ducks normally nest in hollow trees around marshes, lakes and streams, they readily move into manmade structures. Attach them to sturdy pole set four to six feet or more above the high-water level. When placed in a tree, the house should be eight to 30 feet high. The house must be plainly visible and the entrance hole not obstructed. Try to keep it vertical. Any slant must be forward. Three to four inches of coarse sawdust or shavings should be placed in the house. Evict any birds or squirrels who try to occupy the houses.



West

600 EXPECTED AT FIELD DAY

HUBBARD, Ore. — The Turf-Seed, Inc. field day, which drew 200 when it started in 1983, is expected to have 600 or more distributors, growers, university people, landscapes sod producers, golf course superintendents and journalists on June 16.

"The event has been such a success that other seed companies plan their field days around ours to attract our guests," said Turf-Seed President Bill Rose.

The field day will feature national turfgrass trials, yield and forage trials plus wildflower and shade performance trials. Dr. Bruce Clarke of Rutgers University will speak on patch disease.

Other speakers will be Dr. William A. Meyer, president of Pure Seed Testing, Inc., discussing breeding advancements and new directions; Crystal Rose Fricker, discussing turf breeding and wildflowers; Dr. Melodee Fraser from Pure Seed Testing East research center in North Carolina discussing warm-season turf breeding and testing. Rose will address turf quality and show growout plots of seed from various sources.

Northeast

BALTUSROL, FLAHERTY HONORED

The New Jersey Turfgrass Association presented its Recognition Award to Baltusrol Golf Club and Joseph Flaherty for outstanding work in hosting the 1993 U.S. Open Golf Championship.

Presented annually, the award recognizes "conscientious efforts toward better turf, thereby contributing to the beautification of facilities, a greener world and a more attractive environment for New Jersey."

North Central

MID-AM BOARD NAMED

Don Groth, of Don Groth Landscaping in Greenfield, Wis., is the new president of the Mid-America Horticultural Trade Show,

heading a slate of officers and directors representing the show's three sponsoring associations — the Illinois Landscape Contractors Association, Illinois Nurserymen's Association, and Wisconsin Landscape Federation.

Thomas Hoerr of Green View Companies in Dunlap, Ill. is vice president, while Platt Hill of Platt Hill Nursery in Bloomingdale, Ill., is secretary, and Frank Mariani of Mariani Landscape in Lake Bluff, Ill., is treasurer.

Cheryl Muskus, of C & J Landscaping in Addison, Ill., was reappointed to serve as a director. Continue in their current terms are

Directors Peter Grathoff of Thornapple Landscape Maintenance in Geneva, Ill.; Richard Schwarz of Schwarz Nursery & Garden Center in Addison, Ill., and Paul Swartz of P. Swartz Nursery & Garden Shop in Burlington, Wis.

FERTILIZER, PESTICIDE STORAGE RULES AMENDED

New Nebraska state regulations governing bulk fertilizer and bulk pesticide storage went into effect Feb. 14. The regulations affect many Nebraska individuals and businesses who handle bulk fertilizer or bulk pesticides

(containers larger than 55 gallons), or that apply agricultural chemicals for hire.

The regulations are intended to prevent releases or spills of agricultural chemicals from contaminating ground water or nearby surface water.

For anyone storing bulk fertilizer, the amendments now require the construction of a secondary containment structure, such as diking, for:

- individual containers larger than 2,000 gallons;
- multiple containers with a combined capacity larger than 3,000 gallons; or

• when quantities exceed 25 percent of the container capacity, for containers larger than 500 gallons, anytime between Nov. 1 and March 15.

Diking of a pesticide storage facility remains unchanged; a secondary containment structure is required if more than 500 gallons of bulk pesticide are stored.

Other amendments recently enacted include: allowing a custom applicator, under certain circumstances, to use a temporary loadout location for up to 14 days per year; and allowing the use of synthetic liner for secondary containment.

UPDATED

BENTGRASS

Word is spreading almost as fast as our bentgrasses.



Mr. S. Nakano, Greenskeeper
Kouraku Golf Club
Okayama, Japan



Garrett Deck, Golf Course Superintendent
The Harvest Golf Course
Kelowna, BC, Canada



Joseph M. Hahn, Golf Course Superintendent
Oak Hill Country Club
Rochester, New York



Gary Dempsey, Golf Course Superintendent
New South Wales Golf Club
Sydney, Australia



Mandel Brockington,
Golf Course Superintendent
Ridgewood Country Club, Waco, Texas

Southeast

CAROLINAS RESEARCH SUPPORTED

Research contributions doubled in a year, and the 32nd Annual North Carolina Turfgrass Conference hosted a special presentation ceremony for representatives to officially present their contributions to the Research and Extension Endowment, the Turfgrass Foundation and other special project funding. Some \$139,703 in donations were



reported from local and regional associations, as well as commercial industry programs. The associations raise funds through member support and educational events, while the commercial industry uses product-buyer-participation programs.

Contributions for the Research and Extension Endowment were accepted by Dr. Durward Bateman, dean of the College of Agriculture and Life Sciences at North Carolina State University.

On behalf of the:

- Eastern North Carolina Turfgrass Association, Tommy Davis, superintendent of Wedgewood Golf Club in Wilson, contributed \$2,000.

- Cape Fear Golf Course Superintendents Association's Mike Claffey, superintendent of Landfall Club in Wilmington, contributed \$4,000.

- Piedmont Turfgrass Association's David Shelton, superintendent of Pilot Knob Park in Pilot Mountain, contributed \$2,000.

- Western North Carolina Turfgrass Association's Rory

Ellington, superintendent of Cedar Rock Country Club in Lenoir, contributed \$3,000.

- North-South Turfgrass Association's Richard McDanel, superintendent of Pine Lake Country Club in Charlotte, contributed \$1,900.

- Triangle Turfgrass Association of North Carolina's Ron Gilmore, superintendent of Prestonwood Country Club in Cary, contributed \$6,500.

- Carolinas Golf Course Superintendents Association's Mike Fabrizio of Wild Dunes, Club in Isle of Palms, S.C., contributed \$17,000.

- Turfgrass Council of North Carolina's Charles Tomlinson, assistant state roadside environmental engineer of the North Carolina Department of Transportation in Raleigh, contributed \$54,000.

- Ciba Turf & Ornamental Products sales representative Ken Russell donated \$1,012 — accounting for 25 cents per gallon of Banner, Pennant & Subdue that distributors sold. Last year's participating distributors were Eastern Turf Equipment Co. Penagro, Smith Turf & Irrigation and Southern Ag. Insecticides.

Total industry-sponsored research and extension fund contributions totaled \$91,413.

Contributions for the North Carolina Turfgrass Foundation were accepted by TCNC President Tom Bland and Executive Director Gene Maples on behalf of NCSU's Agriculture Foundation. These contributions were received from:

- Mike Claffey, co-chairman of the Turfgrass Council of North Carolina's Golf Day Committee, who contributed the proceeds of 1993 North Carolina Golf Day totaling \$21,241.

- Bob Bell, vice president of sales and marketing for Smith Turf and Irrigation, and Miller McClintock of Milliken Chemical, in a joint fund-raising program, who donated \$710, or \$5 per case of Blazon purchased in North Carolina.

- Bell who gave \$340 from Turf-Seed, Inc.'s Blue Tag Redemption program, which donates .50 cents for each Oregon Certification blue tag returned to local seed dealer.

This year for the first time, some contributors wanted to officially subsidize particular projects and programs.

Cape Fear GCSA made a special contribution of \$2,000 to be used in for research in the Tri-County area of Dr. Bruce Williams, area specialized turfgrass agent of Brunswick County Cooperative Extension Service.

Bob Trancinski, manager of public relations, Lawn & Grounds Care Division of John Deere Co. in Raleigh; Turner Revels, owner of Revels Tractor Co. in Fuquay-Varina; N.C., and Myrtle Beach, S.C., and Lon Fleming, owner of Greenville (S.C.) Turf & Tractor, Greenville, represented the John Deere Foundation in awarding North Carolina State University with special funding for its Computer Information Systems project. The donation of \$24,000 was accepted by Dr. David Knauff and Dr. Gene Kamprath.

N.C. FIELD DAY READIED

RALEIGH, N.C. — From snake control to cooling bentgrass, a variety of educational talks will highlight the 1994 Professional Turf and Landscape Field Day in the North Carolina State University Turfgrass Field Laboratory and Horticulture Field Laboratory here, May 18.

A product and equipment field day will follow the Turf and Landscape Field Day.

BENTGRASS

Good news travels fast. Especially when it comes from internationally recognized professionals.

That's why demanding superintendents *worldwide* are using and endorsing the creeping bentgrasses *Providence (SR 1019), SR 1020, or Dominant™ (a blend of the two).

Of course, that doesn't come as any surprise to us. Because we've spent the past several years developing and testing our cultivars on golf courses and at universities with incredible results.

The unanimous conclusion? Every aspect of our bentgrasses is superior to all other commercially available varieties. Color. Texture. Density. Disease resistance. Heat and drought tolerance.

What's equally important is our bentgrasses' performance under varied golf course conditions. From America to Australia to Africa, our cultivars consistently produce beautiful, fine-textured greens with true putting quality and reduced maintenance. And outstanding fairway turf with less thatch and excellent wear tolerance. These features are important to superintendents, golfers, architects, and greens committees alike.

Don't just take our word for it. Contact your nearest Bentgrass Marketing Group member today for more information and university test results. And be prepared to put your course on the map.

*Providence and SR 1020 are protected under the U.S. Plant Variety Protection Act.

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Kevin Pryski, Golf Course Manager
Cattail Creek Country Club
Glenwood, Maryland



Mike Brisbois, Golf Course Superintendent
Chateau Elan-Legends Course
Braselton, Georgia



Preston Maxey, Golf Course Superintendent
Decatur Country Club
Decatur, Alabama

Troubled Waters?

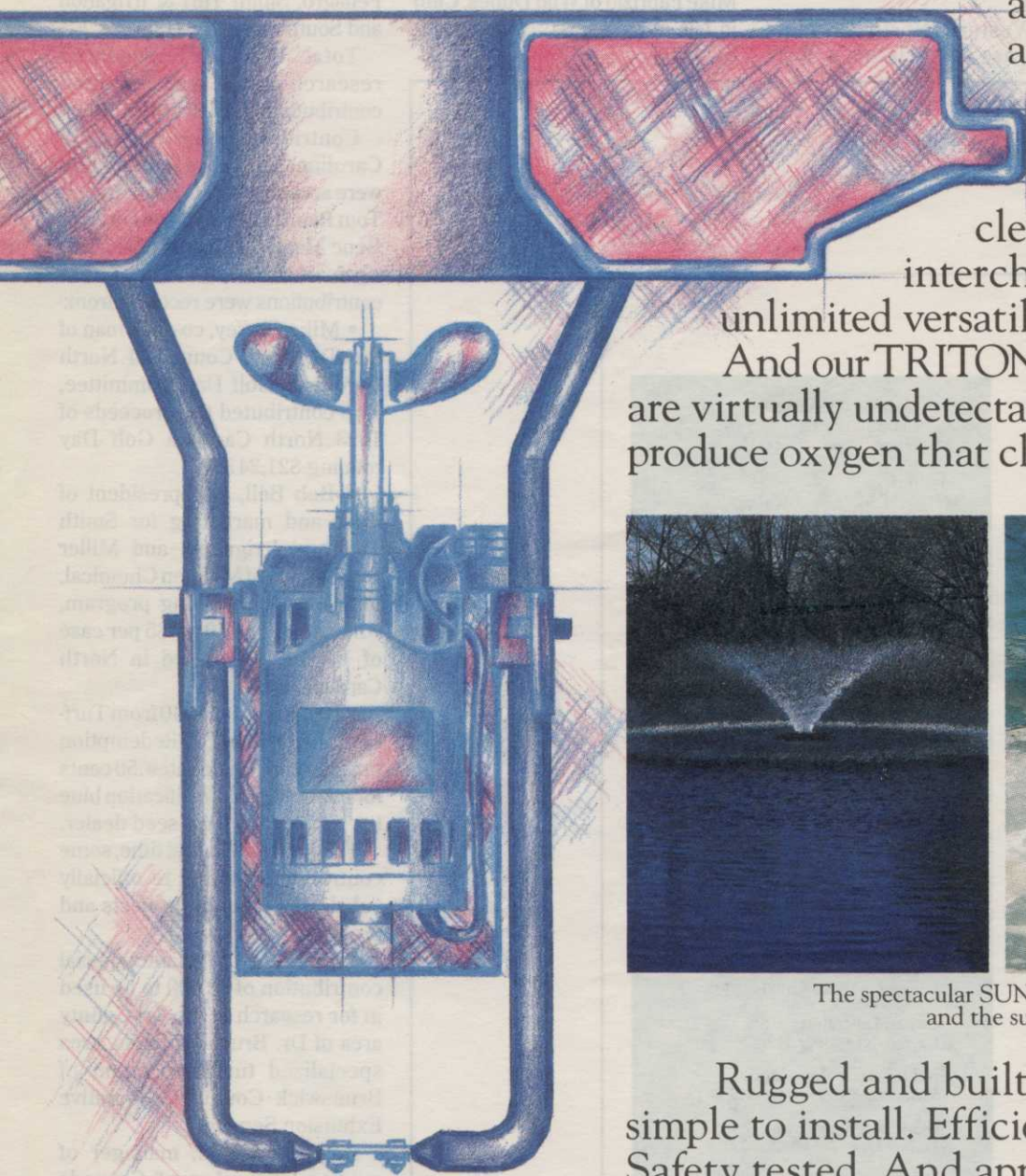
Before water can enhance a landscape, it has to be healthy. The results of poor water management can be unsightly, smelly and costly.

Otterbine quality water management keeps ponds and lakes sparkling, clear and odor-free. Naturally, efficiently, and beautifully.

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And our TRITON and AIR FLO subsurface aerators are virtually undetectable as they create strong currents to produce oxygen that cleans and purifies.



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Pond and lake management offers superintendents myriad environmental challenges

Aeration gear takes on crucial position among golf course superintendents

By PETER BLAIS

As concerns about water quality continue to grow, aeration equipment is becoming increasingly important as a way to keep golf course ponds and lakes clean.

"It amazes me developers will spend a half-million dollars on an irrigation system and then run crummy water through it," said Steve Brown, president of Airlake Aeration Inc. "We're seeing more and more algae growth on tees and greens. It's usually caused by bad irrigation water coming out of ponds. It would just take another \$3,000 to \$4,000 for an aerator to be assured of getting good water."

Airlake markets a diverse line of pond management equipment. The Lakeville, Minn., firm's most recent innovation is a low-energy-use subsurface system. The 1-horsepower machine moves 4,000 gallons of water a minute.

It can be oriented vertically in more than eight feet of water or horizontally in shallower locations. The unit is being tested in Florida, California and Minnesota and should be available later this year.

"It could be especially useful at Northern courses," Brown said. "Most aerators have to be removed in the fall and reinstalled in the spring. This one can remain in the water 12 months a year."

Aquascape, a Toro partner, also markets various water-quality management equipment, including surface aspirating aerators, fountains, submersible aerators, diffused air systems and air stripping systems.

The Minneapolis company has significantly modified the nozzle configuration and jettisoned the elbow-shaped outflow pipe in favor of a more linear one on its submersible aerator. The changes vastly improved the unit's mixing capabilities, according to Aquascape Division Manager Guy Hamilton.

Aquascape, a 2-year-old joint venture between Toro and Aeromix Systems Inc., has also improved its fountains. All parts are now made of stainless steel rather than aluminum, Hamilton said. Other than the motor, the fountain has just one additional moving part. The unit requires no maintenance and first became available in 1993, Hamilton added.

Toro and former partner Aeration Industries dissolved their three-year partnership last August, according to Aeration Public Relations/Marketing Manager Peg Knapp.

Aeration Industries, among the world's largest manufacturers of aeration equipment, has re-entered the golf market with its AIRE-O2 subsurface aerator. The Minneapolis firm replaced the unit's stainless steel with a composite material that has reduced the price by 40 to 50 percent, Knapp said.

The new material stands up to poor quality water just as well as stainless steel and a redesigned motor makes the unit maintenance-free, she added.

Aeration is re-establishing a distributor system for the AIRE-O2 line and is also making the fully assembled product



Clean lakes, ponds and creeks like this keep golfers — and environmentalists — happy.

'It amazes me developers will spend a half-million dollars on an irrigation system and then run crummy water through it.'

— Steve Brown, president
Airlake Aeration Inc.

available directly from the factory.

Otterbine Barebo Inc. now uses stainless steel and thermoplastics on all its Triton subsurface aerators and 90 percent of its total water-quality management product line, according to Marketing Manager Carla Barebo.

"They stand up much better to the harsh water conditions you find today, especially effluent and high-salt-content water," Barebo said.

Otterbine recently began offering ground-fault interruption as a standard

feature. This safety device automatically shuts off the unit when a minimal amount of electricity leaks into the water.

Rain Jet Fountains of Laguna Niguel, Calif., followed up last year's introduction of a 15-hp fountain aerator with the February unveiling of a 1/2-hp model designed for shallow ponds. The FA Series operates in as little as 18 inches of water. While primarily decorative, it also discourages thermal stratification (hot surface temperatures and cool bottom temperatures), according to senior designer Shawn Robertson.

The dye is certainly not permanently cast, as manufacturers add products

By PETER BLAIS

Pond and lake dye manufacturers are coming up with improvements to and new uses for their products at golf courses.

Becker-Underwood Inc. last summer introduced a new formulation of its Lake Colorant WSP. The improved product colors a pond from the top down rather than the bottom up. The result is a faster and more-even coloring effect, according to company President Roger Underwood.

"You can color a pond in a matter of hours rather than the day or two it usually takes," Underwood said.

The Ames, Iowa-based firm is conducting a contest for superintendents who can wield a camera. Cash prizes will be awarded for the best before-and-after pictures of ponds using the company's dyes. First-, second- and third-place prizes will pay \$1,000, \$500 and \$250, respectively.

Applied Biochemist Inc. recently began marketing a 10-percent solution of Aquashade. Called Aquashade-OA, the product is especially attractive for small ponds and even large aquariums, according to Sales and Marketing Vice President Jim Schmidt.

Originally formulated in the 1960s and improved upon in the 1970s, Aquashade has an EPA registration number allowing it to be marketed as an algicide. Most lake dyes simply color the water and make no claims regarding algae growth.

"The price is still comparable to what you would pay for a regular dye," Schmidt said.

Continued on next page

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New formulations move care of waterways into advanced stages

Continued from previous page

Early- to mid-spring — before the initial growth of organic material has begun — is the best time to apply lake dyes, according to Barry Lancaster, wholesale manager for Precision Laboratories Inc., makers of True Blue.

"In a pristine lake in northern Minnesota, with no water entering or leaving, a single application in the early spring would get you through most of

the summer," Lancaster said.

"As you move south, there is more direct sunlight and organic material in the water. That contributes to the deterioration of the dye. If you put it in now [early spring] before vegetation growth really gets started, you would probably have to supplement it just once in late June or early July."

While dyes help beautify water features, especially come

tournament time, superintendents are also discovering they can help speed of play, Lancaster added.

"If someone hits a ball into a treated pond, they won't be able to see it unless it's in less than a foot of water," Lancaster explained.

"So rather than wasting time looking for it, most golfers just drop another ball and keep playing. At some courses, that's helped add another foursome

or two a day."

Lancaster estimates the average course spends \$500 annually on lake dyes. Eighty percent of True Blue's sales are to golf courses, he added.

Dyes have also been shown to be environmentally friendly. Becker-Underwood spent \$24,000 on an independent study to test the effects of its colorant on plants and animals, Underwood said.

"It was shown to be

completely non-toxic, even when used at rates up to 167 times the labeled rate," he reported.

Otterbine-Barebo Inc. began marketing a lake dye called Ottershield through its aeration equipment distributors about a year ago.

"It's very effective in quarter-to-half-acre ponds and has been well received so far," said Marketing Manager Carla Barebo.

Enter The Becker-Underwood Lake Colorant WSP™ Contest!



BEFORE

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Lake Colorant WSP™ is the fast, economical way to turn pale, dirty or off-colored water into a natural-appearing, healthy, translucent blue. Just toss in the recommended number of water soluble packets. Then, step back and watch. It's that easy!

Lake Colorant WSP is the perfect way to brighten landscapes that have water accents, to add sparkle and beauty to golf course water hazards and ponds and fountains in office parks.



AFTER

Now, you could win up to \$1,000 in Becker-Underwood's Lake Colorant WSP contest. It's easy to enter, too. Take a color photo or slide of the body of water you plan to color *before* treatment. Then, toss in the recommended number of packets of Lake Colorant WSP. *After* treatment, take another color photo or slide showing how Lake Colorant WSP improved the appearance of the water. These before and after photos/slides will be used to determine the prize winners.

Follow these simple rules:

1. Any body of water can qualify for entry (ponds, fountains, golf course water hazards, etc.)
2. Only Lake Colorant WSP can be used to qualify for contest. Product must be used according to label directions.
3. Lake Colorant WSP product must be purchased between August 1, 1993 and July 1, 1994.
4. All entries must be postmarked by July 31, 1994.
5. To enter the contest, send "before" and "after" color photos or slides, proof-of-purchase of Lake Colorant WSP, and a brief description about how you used the product to:
Lake Colorant WSP Contest, P.O. Box 667, Ames, Iowa 50010
6. Prizes awarded are as follows:
1st Place — \$1,000 2nd Place — \$500 3rd Place — \$250
7. Decisions of the judges are final. Entries cannot be returned and therefore become the property of Becker-Underwood, Inc.
8. Winners agree to allow Becker-Underwood to use their names, photos and/or statements for promotional purposes.
9. For the names of the winners, send a self-addressed, stamped, business-sized envelope to: Becker-Underwood Contest Winners, P.O. Box 667, Ames, Iowa 50010

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Calls galore

Border collie solution wins over supers

By MARK LESLIE

GREENWICH, Conn. — Superintendents interested in buying border collies trained to herd geese off their golf courses can directly telephone the source — and get Richard Marcks off the hook, so to speak.

His phone "has been ringing constantly" since Golf Course News published an article about his border collie herding geese at Fairview Country Club here, Marcks said.

Marcks, who called the border collie idea "the hottest thing since peanut butter," said please call the trainer — Barbara Ligon — at 804-263-5912.

Marcks has been forwarding his many calls to Ligon, whose address is Rt. 1, Box 147, Shipman, Va. 22971.

"Our supply [of trained dogs] is getting low," Ligon said. "Calls have come in from coast to coast."

Since Marcks started spreading the word of his success with his dog Tac at Fairview two years ago, Ligon has supplied 15 dogs to golf courses in Connecticut and New York.

Greenwich's Parks and Recreation Department bought two dogs in April to rid its five parks of the messy geese.

Normally working with sheep, the border collies at Ligon's are trained specifically to herd geese as well. She uses a small fenced-in pond and a flock of mallard ducks.

Ligon charges \$350 per month to train a border collie.

An advance-trained dog, neutered and with all its vaccinations, can cost \$2,000 to \$2,500. She includes a video-taped demonstration of each dog working and also trains the new owners on the commands.

"I'm guaranteeing [the dogs] it's going to be a wonderful home because they end up being the hero of the golf course," Ligon said.

Robert Trent Jones Jr. exceeds expectations with *Golf by Design*

By MARK LESLIE

It was a long time coming, but Robert Trent Jones' new book was worth the wait. Jones, whose dad dazzled golf course design aficionados a couple of years ago with *Golf's Magnificent Challenge*, provides a unique twist both on design and play.

Impossible? No way.

In what may be the best-written golf coffee-table book in some time, Jones sheds his designer's sketch pad and doffs his player's thinking cap in this memorable reading and viewing treasure, *"Golf by Design — How To Lower Your Score by Reading the Features of a Course."*

"No two courses or rounds are so alike that you can attack them with exactly the same game plan," writes Jones, who worked on this book for several years. "For me, the constantly changing conditions and the infinite variety of holes define the essence of the game."

Indeed, Jones relates architect-equals-defender and golfer-equals-attacker in terms of chess, pool, and air & land strikes in warfare.

"A well-defended golf hole is a giant chessboard where the designer has created a system of defenses" — sometimes obvious like waste bunkers, sometimes camouflaged, to sabotage the golfer's game, he writes.

Jones floods his book with hints for the golfer — from the view of a designer who is himself a pretty darn good golfer.

A couple of out-takes:

- "Your first lesson in course mastery is to be aware of the significant natural factors that should influence how you approach a course."

- "Visualize a hole as a series of planes without grass, trees and water. That's the designer's view when he lays out a hole."

- "Tailor your shot-making abilities to the course. You mentally take control of the design... Designers try to tempt you into hitting risky shots. Smart players



Jones has created plenty of strategic problems in his own designs, including Deer Creek in Overland Park, Kan., a high-end public daily-fee track that opened in July 1989.

know their limits and avoid trouble."

- And this comment, which may go to the very depth and core of the architect's id: "On certain holes, a designer may attempt to upset a golfer's balance and mindset. He tempts you to push too hard or take unnecessary chances. I often say, 'Lost ball, lost stroke, lost confidence.'"

Jones talks of strategic, penal and heroic design. He compares geographic categories of courses — links or seaside, prairie, parkland, desert, mountain and tropical. He talks of psychology and rhythm. He talks of the evolution of different aspects of golf design, such as the tremendous changes in the physical and strategic importance of tees in the

last 30 to 40 years; and the technical advances in ball and club construction that have produced higher shot trajectories and moved the game from "a land campaign to an aerial assault."

He even gives insights into how to study a scorecard to analyze the course through its yardages, par, hole handicaps, slope rating and the like.

"Golf by Design" is spiced with myriad four-color photographs and drawings to illustrate Jones' points.

"Our ambitious attempt," he recounts, "was to take you into the mind of a golf course architect. Just as you are the player, or 'attacker' if you will, the golf course architect is the 'defender.' He

has mustered all his skill and creative energy to present you with a playground which you try to conquer with every stroke of your club. He tries to tantalize you with an inviting landscape, camouflaged and beset with bunkers, swales and grassy slopes."

It was an ambitious attempt realized for Jones, and I hope this tantalizes you into reading it for yourself. Ah-h, sweet success.

"Golf by Design" costs \$35 and is published by Little, Brown and Co. of Boston, New York, Toronto and London.

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RGF offering 'Environmental Guidelines'

WEST PALM BEACH, Fla. — A free booklet entitled "Environmental Guidelines for Golf Course Maintenance Facilities" is being offered by RGF Environmental Systems, Inc.

RGF is making the booklet available "to give superintendents guidelines on reducing the risk of contaminants entering the environment and possible fines resulting from such actions."

It covers Environmental Protection Agency laws, maintenance shop housekeeping, mix-and-load operations, storm-water run-off, managing hazardous waste on site and pollution solutions.

Copies may be obtained by

Environmental Guidelines For Golf Course Maintenance Facilities



writing RGF at 3875 Fiscal Court, West Palm Beach, Fla. 33404; telephone 800-842-7771 or 407-848-1826.

RGF is involved in design, engineering, manufacturing and sales of pollution prevention equipment.

Total quality precepts the backbone of course management book

PORT ORANGE, Fla. — Golf course superintendents and managers can now roll up their sleeves and put on their thinking caps. Andrew and Robert Cornesky have applied total quality management (TQM) and total quality improvement (TQI) to golf operations in their book, "Total Quality Management in Golf and Country Clubs."

The Corneskys, whose firm Cornesky and Associates, Inc., consults service organizations, have focused TQM and TQI principles on helping golf clubs to increase the quality of their service, decrease costs and encourage more people to take up the game for recreation and health.

Example after example of case studies are applied to golf courses, from greenkeeping to food and beverage.

In the end, it presents the Corneskys' version of a self-assessment quality

Continued on next page

Mike Waldron leaves LPGA post to replace Mona at Georgia SGA

Mike Waldron, who had served as director of tournament services for the Ladies Professional Golf Association (LPGA), has taken over as executive director of the Georgia State Golf Association (GSGA).

Waldron replaces Steve Mona, who was named president and chief executive officer of the Golf Course Superintendents Association of America (GCSAA) late last year.

A native of Atlanta, Waldron has been a member of the GCSAA's Board of Directors since 1978 and a member of the GSGA executive committee from 1988-90.

Prior to joining the LPGA staff, Waldron began his career in the golf industry as manager of regional affairs for the United States Golf Association.

Management book from Corneskys espouses principles of total quality

Continued from previous page
profile index tool based on the modified Malcolm Baldrige Award Criteria.

The self-assessment will provide readers with "a method to get a baseline of where your organization is at the present time" and as "a tool for comparing your progress after you have undertaken the quality journey."

The Corneskys have started a

newsletter, "TQM in Golf & Country Clubs," which will answer questions from the golf industry, and will share stories, procedures that colleagues are using to keep quality initiatives alive while assessing their effectiveness.

They can be contacted at 489 Oakland Park Blvd., Port Orange, Fla. 32127; telephone — 904-760-5866.

COMMENTARY

Whose rights are equal rights?

Continued from page 14

construction," said Elizabeth Hart, National Club Association vice president and government liaison.

Hart noted that California not only mandates the 2-to-1 construction ratio but also requires a place for women to lie down.

Is it true that all trends start in California? Is this a case of the blind leading the blind? I feel faint. Actually, if I really did feel faint, I'd have no place to lie down. Men's rooms have no couches.

In fact, I feel these states have not gone far enough! Why not? Well, have you ever seen a woman go to the ladies' room alone? Ever? No, it's an unwritten law (though our beloved government may mandate it some day) that women go in pairs. Enter that into the equation and what do you get? The ratio should rightfully be 4-1 in Florida, 6-2 in Minnesota.

That would cost still more, but who's counting? Certainly not our government, which seems more and more bent on placing its thumb squarely on the populace in every corner of our lives... Even the restrooms.

...

You've heard of NIMBYs (Not in My Back Yarders), but what about NIMPF (Not in My Picture Frame)? World-renowned golf photographer Tony Roberts lamented: "Rakes are the worst thing that ever happened to golf. A hazard is a hazard."

...

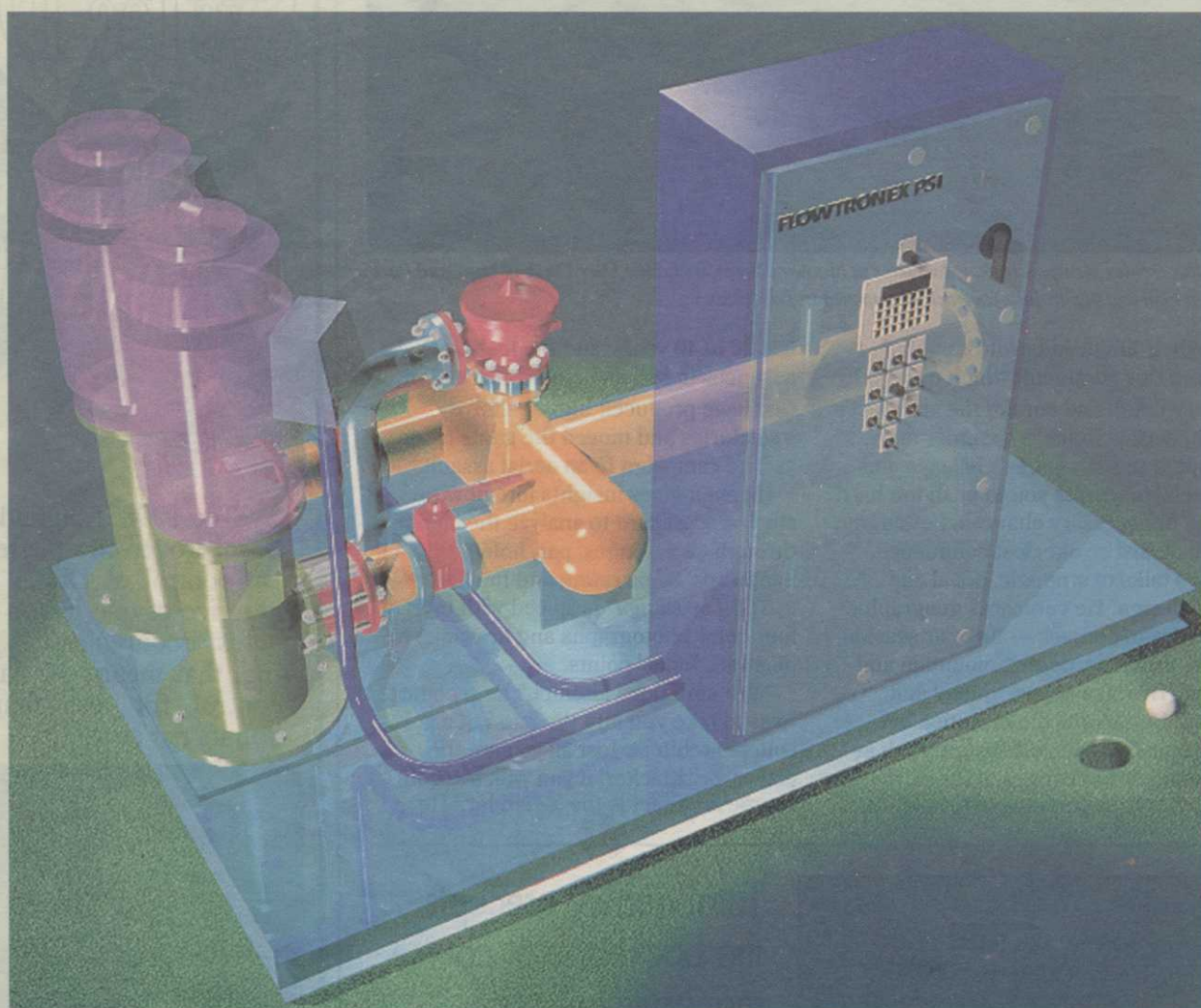
Credit where it's due, kind of: Remember the quotation about attitude in my March commentary? Superintendent Peter Leuzinger read it aloud during his talk at the GCSAA conference in Dallas, but didn't know its author. To the rescue came Roger Smith of Ridgefield Country Club in Kingsport, Tenn., who called to tell us the quote comes from Tim Lautzenheiser. Smith discovered it a couple of years ago, had it blown up poster-size and framed in his office. Now — who in the world is Tim Lautzenheiser?

...

Dogged pursuit: Spotting our March story on border collies (see followup on page 34), Certified Golf Course Superintendent Thomas Dale of Radnor Valley Country Club in Villanova, Pa., told us he has used a border collie to keep geese off his course for 10 years. Samson recently died of cancer. His 8-month-old successor, Divots, is expected to take over the task this year.

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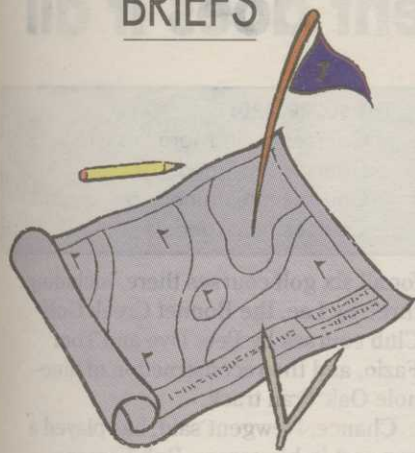
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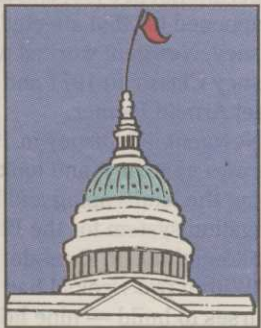
LAKELAND, Fla. — Barbaron, Inc. of Crystal River has been selected by Cypress Lakes Ventures to construct a new 18-hole additional course at the Cypress Lake Golf and Country Club here. The course has been designed by Powell Golf Design of Bradenton and is scheduled to open in the early fall.

COURSE DESIGNERS EXEMPTED

A Mississippi bill that exempts golf course designers from being licensed as landscape architects has been signed into law by Gov. Kirk Fordice.

Landscape architects in some states, including Florida, also have tried to force golf course designers to be licensed.

The bill also allows the state Board of Architecture to run continuing education programs for landscape architects.



GRAVES PICKS UP THE PIECES

Salgados Praia Golf Course, in the West Region of Algarve, Southern Portugal, is nearing completion. Robert Muir Graves, Ltd., of Walnut Creek, Calif., was brought in as course architect when the course was about 70 percent completed. Graves made a number of revisions and generally upgraded the layout to meet international standards for resort play. The completed course will measure 6,560 yards from the back tees. The course is part of a large homesite and hotel development.

NEW CLUBHOUSE FOR ARGYLE

SILVER SPRING, Md. — Argyle CC is renovating and expanding its clubhouse. The \$2.4 million project will expand the clubhouse to 22,000 square feet. BeechTree Golf Co. is coordinating the project for the club. The building architect is Reithlingshoefer-Smith & Associates of Annapolis and the contractor is Coleman & Wood of Rockville.

HELLMAN JOINS JACOBSON DESIGN

LIBERTYVILLE, Ill. — Doug Hellman has joined Jacobson Golf Course Design as director of business development and design associate. He will oversee new business development and marketing activities and be involved in project development. Hellman formerly was director of business development for Dick Nugent Associates.

GOLF COURSE NEWS

Europeans coordinate environmental effort

By PETER BLAIS

BRUSSELS, Belgium — With permits and financing firmly in hand, developers of Domain Des Princes Golf Course began building their Jack Nicklaus-designed layout here in late 1989. A local environmental group went to court and succeeded in having the permit revoked. Five years later, the course is no closer to reality than it was in the late 1980s.

This is the type of situation the newly formed European Golf Association Ecology Unit hopes to stop from happening again.

New Ecology Unit to present golf's benefits on pro-active, case-by-case basis

The ecology unit is a joint initiative of the Royal and Ancient Golf Club of St. Andrews, PGA European Tour and European Golf Association — an umbrella organization representing the 25 European national golf associations.

Launched in January, the program has been funded for the next three years in recognition of the need for Europe's lead-

ing golf associations to present a coordinated approach to environmental issues.

"We [golf industry] haven't handled those problems well in the past," said Executive Director David Stubbs, an experienced ecologist who has specialized in golf-ecology issues the past seven years and gained considerable experience matching golf and conservation interests.

"Basically we've just put out fires wherever they've erupted. We need to take a more pro-active approach and get a dialogue underway with the environmental

Continued on page 44

Hurdzan pursues yellowed pages & hickory sticks

By MARK LESLIE

It is like "Christmas and an Easter egg hunt all rolled up in one."

It captivates, excites and enlightens. And it has made Dr. Michael Hurdzan a frequenter of flea markets and dusky old book stores.

It is the hobby (and treasure hunt) of golf collecting. "I just can't describe to you the excitement of finding something you've been searching for for years," said Hurdzan, a golf course architect whose massive collection includes books, clubs, ceramics, glassware, buttons, games, you name it.

"I can almost tell you the time, date and place I found each one of them, and what I paid for them. It's like an Easter egg hunt and Christmas all in one. And every single day is like that. Collecting is the most exciting thing, if you really treasure the things — which I do."

Hurdzan, then young and far from wealthy, caught the collecting bug unaware on Christmas Day 1967. "Someone gave me *Book of the Links* by Sutton. I had



Dr. Michael Hurdzan relaxes in his Columbus, Ohio, office, which brims with trinkets from golf's past.

no idea these kinds of books even existed — let alone on golf course architecture. I was absolutely captivated by the idea. I read it and reread it. It was a wonderful experience. It became so exciting to me that I started to collect more and more things. I went to book stores and flea markets — and still do."

Hurdzan pulled out an old cigarette dispenser for rolled cigarettes. "Just last week-

end I discovered this. It's probably from the '20s or '30s, but it's a wonderful piece."

Hurdzan's "primary love is books," and, indeed, like beloved family, every one in his cache has a story.

• There's *Scotland's Gift*, written in 1885 by Charles Blair Macdonald, and *Golf in America*, which Hurdzan bought in a book store in 1969 for \$3 and \$5, respectively.

Continued on page 47

Von Hagge lays claim to the unbearable lightness of course design

Q & A



Robert von Hagge

An agricultural engineering degree-holder who played on the PGA Tour a few years and as a club professional before joining Dick Wilson's architectural firm in 1957, Robert von Hagge has established his own design practice around the world. Eighty percent of his work is abroad, "and it doesn't seem to be letting up," he said. Managing editor Mark Leslie caught the 63-year-old von Hagge at his Spring, Texas, headquarters.

Golf Course News: It seems you have your own idea of golf course design. What do you do that says: "This is a von Hagge design?"

Robert von Hagge: Visually, our courses speak profoundly to folks because I think we're the only ones who really work with light. We've studied light for years. The way the light works from morning to evening across this plane of vertical ex-

pression you've created, and how it works from season to season allows a very romantic mystique to come forward at all hours of the day.

When you see photographs of great golf holes, or courses, they are always taken at that dramatic time of day when the angle of light is most profound. We've proven significantly that we can bring those dramatic hours into the middle of the day, so that hour after hour you're playing a different-appearing golf hole. It eliminates the repetition and boredom that you find in so many courses.

In earth movement, the only thing you can rely on ad infinitum is the light. It's the only thing permanent. Trees and grasses die and horizons change with cityscapes

Continued on page 50

Perry Dye: 'We have redirected'

By HAL PHILLIPS

DENVER, Colo. — To paraphrase Perry O. Dye and quote Mark Twain directly: "Reports of my death have been greatly exaggerated."

However, Dye offers this qualifier: "Not greatly exaggerated, but exaggerated."

Rumors have been flying from here to Singapore concerning the financial condition of Dye Designs, as the Japanese development market — which had supported 87 percent of Dye's business in 1989 and '90, for example — continues its downward slide.

The result for Dye Designs has been diminished work overseas and a new focus on its domestic business plan.

"We have redirected. We're going after some of the smaller projects," said Dye in late-April. "To be frank, it's hard to adjust, but I think we can do it. Getting golf courses built for municipalities will go a long way towards changing our image."

"But frankly, a lot of people don't know what I can do here on the main

Continued on page 43

Build, design, maintain and manage — Newgent does it all

By MARK LESLIE

KISSIMMEE, Fla. — One thing in the life of Steve Newgent is for sure: He'll never get bored. He wouldn't have it.

Newgent, who builds, maintains, designs and manages golf courses, said: "I can't wait to get to work. I've been that way for 30 years."

Newgent had a foretaste of his life while still in college. He would begin his day getting a construction crew started building Indian Harbor Pines golf course, and end it shaping the Satellite Beach course's greens and bunkers. He built nine holes at Ironwoods Country Club in Gainesville and 18 at West End Country Club in Gainesville while a married student in 1968-69.

Today, Newgent basically lives on the road, out of his Chevy Suburban, traveling between the several courses his company is building, the one or two he is designing, the six on which he handles the maintenance contracts and the one his firm manages.

At 6:30 a.m. he is shaping a green. At 6:30 p.m. he is checking an agronomic problem at one of his "maintenance" facilities.

"I never ever wanna be bored. I don't like sitting in the same place," Newgent said.

He ensures that he's not sitting long by operating his Golf Masters construction business — formerly Fore Golf — along with its subsidiaries Golf Art Maintenance and Golf Art Club Corp.

The word "art" reoccurs in his businesses because Newgent sees his work as that.

"I'm an artist. I love creating," he said. "Country Club of Ocala — I shaped it all. Stonecrest [in Bellevue] — I shaped it all.

"Most people hire me because I do it. That's my trademark. I've finished every green my company's ever built."



Steve Newgent stands at his newest design — Country Club of Ocala, which opened in mid-February.

"Steve is the best shaper and golf course builder in the country in my opinion," said Joe Lee, who has hired Newgent to build more than 50 of his courses. "Steve is a hands-on guy. There are so many who get away from their business once they get successful. Steve's got good people working for him. But at the crucial times he is on the dozer shaping a green or box-blading it out."

Is Newgent the only person in the industry who designs, builds, maintains and manages?

"Others design and manage, or build. But I don't know of anyone else who also maintains," Lee said.

Newgent said he has designed a baker's dozen golf courses, including Pine Oaks, a facility in Haines City, which he will also maintain and operate once it is finished.

He is especially proud of Country Club of Ocala, which he designed and built. It opened in mid-February.

Among his current construction projects are The Highlands in Chester, Va., which he designed, and River Downs in Baltimore, designed by Art Hills.

Among the courses he maintains by contract are Ironhorse Golf and Country Club in West Palm Beach and Winston Trails in Boynton Beach.

Bruce Futch is president and Newgent's partner at 2-year-old Golf Masters, while Steve Parker is general manager of Golf Art Maintenance and Golf Art Club Corp.

Perhaps their most famous client has been Disney World in Orlando, Fla. Newgent, who was superintendent of Disney's Lee courses from 1970-73, has had a hand in grading and finish shaping

THE SCORECARD:

Courses built: More than 125
Courses designed: 13
Courses maintained: 6
Courses managed: 3

for all six golf courses there, including three by Lee, the Bonnet Creek Golf Club courses by Pete Dye and Tom Fazio, and the reconstruction of nine-hole Oak Trail track.

Chance, Newgent said, has played a key part in his career. Bob Lagasee "happened to know" Newgent's father, Jack, when Patrick Air Force Base needed a construction superintendent. Newgent, then a turfgrass student at the University of Florida, was available in 1969. Newgent "happened to meet" Disney officials when they approached University of Florida for help with a landscaping problem. Disney landscape architect Bill Evans remembered Newgent from that meeting and one day called him in for a telephone interview with Lee, who was about to design in first Disney golf course.

That led to his work as a construction supervisor for that project, the following superintendent's job, and another "happened-to" that affected his future. At Disney, Newgent worked with the Disney Classic in 1971 and "happened to" meet Arnold Palmer.

Newgent left Disney in 1973, formed his own company, and took his first job: doing the landscaping and installing the irrigation system for the Bay Hill condominiums in Orlando.

"Within two weeks I had two golf courses to build — nine holes at Sherwood Country Club [in Titusville, Fla.] and Sweetwater Oaks [in Longwood, Fla.]. Then it took off. I've built 125 golf courses since then."

...

Variety spices Newgent's life. Course maintenance is an important ingredient to that variety.

"I like this because I'm not sitting on the same golf course," he said.

"I started contract maintenance 10 years ago," Newgent added. "It works out really well. The developer doesn't have to fiddle with labor, the payroll, purchasing inventory, etc. He has a firm contract figure and knows what he's got to pay. Our six courses are ones I've built, except for Ironhorse.

"We supply the superintendent, manpower and equipment. We handle all the permitting. The owner supplies absolutely nothing, except a facility. We have a Class A superintendent on each job and I visit the site each week."

...

What does the future hold for the 49-year-old Newgent?

"What I really want to do is more architecture and maintenance," he said. "There's a need for it, first of all. Secondly, it's a steady income. The construction business is very cyclical. Anything I design I'm going to build. I have two sons and a son-in-law in the business and they're also very hands-on. I'm training them to where eventually (say, 10 years) I can design and they'll build.

"It's been a great life. I wouldn't have traded anything I've done in the golf course business for any other kind of job. In 30 years I've never deviated from it."

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Charles Howard forms design firm; brings Garley, Davis, Eaves, Thomas on board

AUSTIN, Tex. — Creation of The Charles Howard Design Associates brings together an exceptionally talented team marked by special skills.

Howard has more than 25 years' experience in golf course engineering, golf course construction and development planning. He has acquired an extensive working knowledge of design under a variety of environmental and financial conditions.

Howard's engineering expertise and land planning skills have been expanded through extensive involvement in agronomy, botany, soil sciences, geology, computer technology and permit processing.

His experience as a land planner has gained importance with increased emphasis on golf courses as only a part of a complete development, residential or otherwise.

Jim Ganley, Tripp Davis, Lonnie Eaves and Kevin Thomas also are key staff players.

Ganley's role as construction manager and agronomic specialist stems from close connection with golf course construction and maintenance. Educated in Turf Science at the University of Massachusetts, Ganley entered the golf development industry by building and maintaining seven golf courses throughout the Northeast in the late 1960's.

Ganley in 1993 became construction manager of the CHDA-designed Sand Creek CC, Chesterton, Ind. Now he's aboard as a staff member.

Design associate Davis early demonstrated playing skills. As a high schooler, he was second in the 1983 Youth Tournament. He won the 1984 Georgia State Junior title, and was named to three AJGA All-America teams and the Golf Magazine Junior All-America team.

Tripp attended the University of Oklahoma on an athletic scholarship. He was named Academic All-Big Eight in 1988, and in 1989 was both All-Big Eight and NCAA All-American while helping the Sooners to the national golf championship. He then played the professional tour for two years.

At present, Tripp is overseeing the CHDA Research Station at U. of Oklahoma, and is studying the effect golf courses have on the

ecology of a site.

Lonnie Eaves, with Howard Design more than 10 years, now specializes in engineering irrigation systems, grading plans, structures and waterways. He also is responsible for measuring material takeoff, earth quantities, construction drawings, contract specifications and observation.

Kevin Thomas is the computer whiz and systems manager. A valued aspect of his work is innovating new technologies with

Howard's computer systems and integrating advances from the computer industry. Thomas' computer skills produce accurate base maps, digital terrain models, construction drawings and quantity calculations.

Howard Engineers is experienced in the engineering of structures, water ways and especially irrigation systems. The staff is responsible for more than 300 irrigation systems across the country.

Burns adds course projects to agenda

Burns Golf Design has changed its address. The firm can now be reached at 5449 Marsh View Lane, Fernandina Beach, Fla. 32034; 904-277-4474. Steve Burns spent 7 years with Tom Fazio, prior to forming Burns Golf Design in 1988. The firm's other principal designer, Ed Carton, spent five years with Fazio. They currently have The Club at Ravenswood Lake, in Medina, Ohio, under construction, and are working on the design for Laura S. Walker State Park G.C. in Waycross, Ga. In Wooster, Ohio, they have nine holes open and the second nine growing in at Hawks Nest G.C. Their first project in Mexico, Club de Golf Malinalco, opened in May, and is scheduled to host the 1993 Mexican PGA tournament in December.

BAY GOLF RENOVATES BUNKERS

ABESCON, N.J. — A four-month bunker restoration project completed, Marriott's Seaview Resort's par-71 Bay Golf Course again is open and ready for another 80 years of championship play.

Designed by Donald Ross, the course resembles a seaside links, with undulating greens and 86 well-protected bunkers. These bunkers received the bulk of the \$500,000 expended for restoration.

GOLF COURSE NEWS

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Graham/Panks jazz up Scottsdale

RIO VERDE, Ariz. — Touring pro David Graham and design partner Gary Panks have opened Tonto Verde Golf Club here.

The softly contoured 6,737-yard par-72 course is the centerpiece of the 600-acre Tonto Verde subdivision, being developed by Rio Verde Development, Inc. Views of the Mazatal, Superstition, and McDowell mountain ranges surround the course, providing the players with spectacular panoramas unique to the area.

They have also broken ground of the Talon Course at the Grayhawk Golf Club, in north Scottsdale.

Grayhawk developers Gregg Tryhus and Del Cochran are in the initial stages

of construction of the 7,000-yard, par-72 layout.

"Scottsdale is fortunate to have several of this country's finest courses, and we have set our sights high. From the day it opens, we intend to have our first course considered as one of the best in the state," said Cochran.

Construction plans call for grassing the 176-acre layout to begin by early summer, with the course opening scheduled by year's end.

The fairways and tees are to be planted with Tifway 419, and the grassy hollows and collars around bunkers will be Tifgreen 328. The greens will have Penncross bentgrass, with a three-foot ryegrass border.



The par-4, 350-yard 5th hole at Graham/Panks' Tonto Verde Golf Club.

'That sinking feeling' is more than an expression at Shoal Canyon

Continued from page 1

building the course.

"It's a unique project, that's for sure," said Siemens. "The site itself is sinking as we speak. Most of the greens are being built without any features because you're going to get features over time, whether you want them or not.

"There's no way to predict it. Some areas are sinking faster than others."

Ground was broken last November, with seeding scheduled for July. Twelve holes

are being built on a former landfill that has been capped. The remaining six holes are perched atop a granite knoll, providing commanding views of the Los Angeles basin and even the Channel Islands on those rare, clear days.

The city of Glendale pursued a golf course development deal because the land has no other practical use, explained American Golf's Director of Construction Tom Devlin.

"We're developing the course in partnership with the city," said Devlin. "It's

a long-term lease: They provide land, we provide construction and management. We'll pay rent depending on the revenues.

"It's a wonderful site. On a clear day, there's nothing like it in L.A."

...

"There will be some unique problems and noticeable changes in topography. It will be a continuing maintenance problem for AGC," said Siemens.

However, if any management company is prepared to deal with a landfill course, it's American Golf.

"We probably operate more golf courses on landfills — eight — than any other management company," said Devlin. "We have a lot of experience with settlement and unique maintenance requirements.

"To say it's sinking six feet each year simply isn't accurate. That's just hearsay. It may have sunk six feet in one place while another doesn't move at all. We've also had a lot of rain, which makes the landfill settle even more."

According to Devlin, landfill courses require some special design and

maintenance measures.

Irrigation, for example, cannot be overdone because water "unsettles" the underground trash. Siemens noted that landfill courses must be "meticulously drained" to avoid excess water leaching through the cap to the landfill.

Irrigation lines break more often, so facilities should employ an in-house technician to act quickly, Devlin said. Further, polyethylene pipes should be used for main irrigation lines in order to withstand the bending and stretching.

Concrete cart paths are a no-no, due to the shifting topography. And whenever possible, drainage should be handled on the surface, via swales and barancas, as opposed to underground piping.

Does the sinking and settling ever stop?

"I'm not an expert on landfills," said Devlin, "but I've built enough to say it never really stops. There is a curve that shows settlement abates over time. But frankly, with Shoal Canyon, I don't know where we are on that curve."

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Two family facilities planned for Dallas

DALLAS — Emerald Family Entertainment, Inc. will develop, construct and operate two new facilities in the Dallas area this year.

Galleria Golf Center will be a 52-station, lighted driving range in north Dallas' Galleria shopping/commercial district. Tour Play Golf Center, located in the suburb of Mesquite, will be a 48-station, lighted driving range, and upscale nine-hole par-3 course.

Morrishes hang out design shingle together

FLOWER MOUND, Texas — Jay Morrish & Associates, Ltd. has opened offices in this Dallas suburb. Jay Morrish is president and son Carter is vice president of the course design firm.

"This central location offers us the opportunity to work on a variety of projects covering a large geographic area. I love the Dallas area and wish we had moved here 10 years ago," said Jay Morrish.

Carter is also designing golf courses with Roy Bechtol of Austin and PGA touring pro Howard Twitty.

Graves-designed muni growing in

McCALL, Idaho — Substantial construction was completed in 1993 on a nine-hole addition to the 18-hole McCall Municipal Golf Course.

The par-35 layout was designed by Robert Muir Graves of Walnut Creek, Calif.

The addition, developed by O'Neill Enterprises, is to be given to the city, along with 100 acres of land. Developer Peter O'Neill also will provide a mile-long section through Spring Mountain Ranch for construction of an eastern bypass road for the city of McCall.

Golf course developments and other improvements will be financed by a city local improvement district bond issue, amortized by the sale of home sites at Spring Mountain.

Neal Meagher, Graves design associate, said, "In order to match the new nine to the existing 18, we've used sand bunkers sparingly, which leaves alternative open routes into the greens."

COMMENTARY

Puerto Rican development proved challenging

By FRANK J. DINENNA

FAJARDO, Puerto Rico — Central Florida Turf, Inc. of Avon Park, Fla., has completed construction of a new 18-hole golf course at the El Conquistador Hotel and Golf Resort's here.

The hotel and golf course sit on the northeast corner of the island, about 40 miles east of San Juan. The hotel is perched atop the cliffs of Las Croabas, where the Atlantic Ocean and Caribbean Sea meet.

As project supervisor, I found this to be a very challenging and rewarding assignment. Even though Puerto Rico is a commonwealth of the United States, in reality, it is a Spanish-speaking country, whose people are very friendly, helpful and hard-working. With their cooperation, I was able to locate all the raw materials needed to build the USGA greens.

One individual whose help save me a lot of time was superintendent Domingo Lagares. Greg Sherwood, the golf course and tennis director, made arrangements with CFT to hire Domingo until the grow-in started. He proved to be a valuable asset. He had an easy-going personality and a total knowledge of what and where I could find the materials — and men I needed to keep the project moving.

Domingo put together our island crew, people that understand the operations of a golf course.

As the crew from Florida was clearing and shaping the course, Domingo and his crew were installing an irrigation system and hand plating 419 sprigs on the seven-acre sod farm CFT had built just off site.

Sod importation was not permitted in Puerto Rico, due to a ban on soil, mostly because of nematodes. So all sprigs were imported from our farm in Avon Park, Fla. (419 for fairways and tees, Tifdwarf for greens).

This was the main reason we built the sod farm. The sod was used to ring tees, and line sand traps. In order to ship sprigs into Puerto Rico, we had to wash the soil free from the fresh cut sprigs, bag them by hand and store them in a refrigerator container, which was shipped by barge to San Juan, and delivered to the site.

Once the shaping was completed in an area, the irrigation crew would move in. The system's main line ran across the fairways, cutting them in half. By designing the irrigation system in this manner, you could isolate any half of a fairway you needed to work on without shutting down the whole fairways.

After shaping, drainage, irrigation, box blading and

power raking of a fairway was completed, Domingo's crew would take over and hand-rake fairways to give us a clean planting surface.

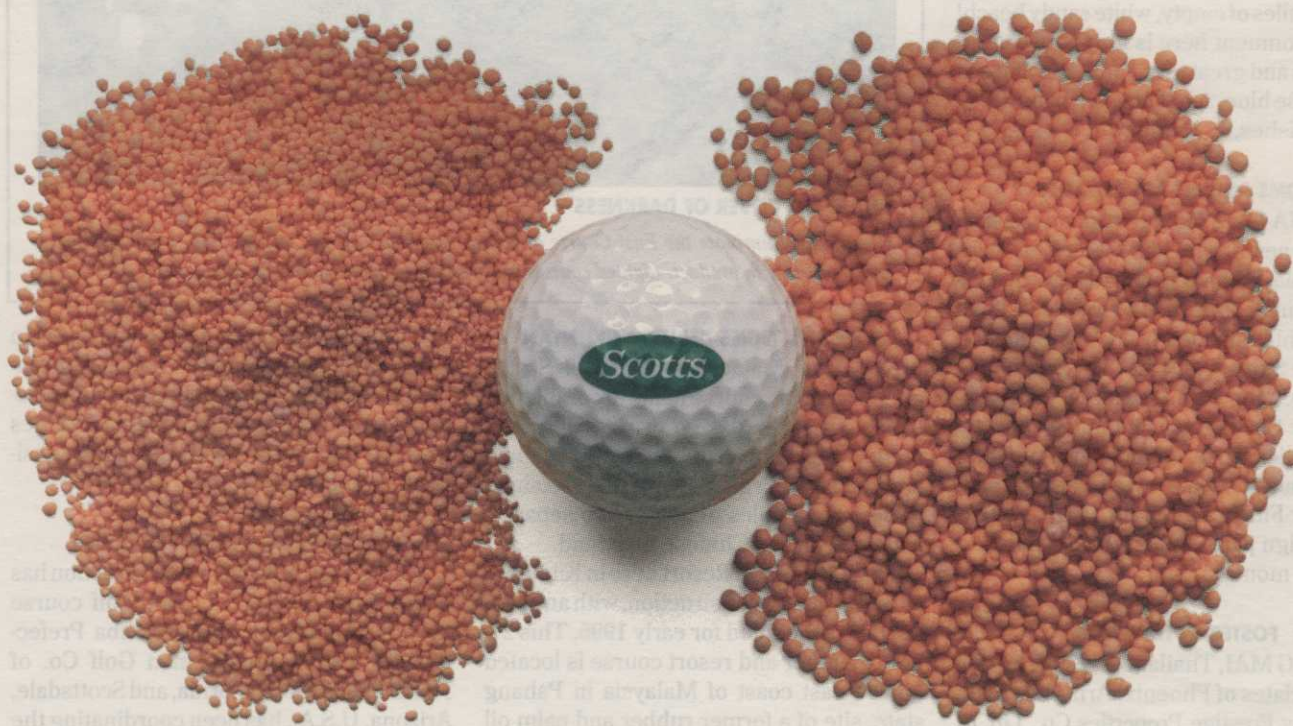
When the fairways were ready for planting, we would load pick-ups full of bagged sprigs, drive down the fairways and drop the bags off for the men to hand shake the sprigs onto the surface in front of the disc planter. By the end of the

day we had a finished product and a tired-but-happy crew.

In the end we put together a team of Americans and Puerto Ricans that built an outstanding golf course. And thanks to the design coordination of Arthur Hills and Mike Dasher, and the team work of Greg Sherwood, the men from Central Florida turf, Domingo Lagares and his crew, we built the El Conquistador.



El Conquistador in Puerto Rico, built by Central Florida Turf, Inc. of Avon Park, Fla.



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ASIA-PACIFIC DESIGN UPDATE

Postmark East Malaysia: Fream breaks ground in Sabah

By HAL PHILLIPS

SABAH, East Malaysia — Architect Ron Fream, principal of Santa Rosa, Calif.-based Golfplan, keeps *Golf Course News* abreast of his overseas activities via the postcard. Every month or so, Fream drops the staff a line, telling of his work and adventures.

Fream and Robert Trent Jones II have been working in Asia-Pacific longer than any other American architects. His latest update arrived stateside from Sarawak on the former island of Borneo:

"Hello — The prime minister of Malaysia will inaugurate ground-breaking for our Karambunai resort course along the sea-side, north of Kotakinabalu Easter Sunday. The site is sand dunes, mangrove swamp and four miles of empty, white sandy beach! The environment here is unique — grand blue skies and great green forests. The sea is turquoise blue. And I get paid to be here? Best Wishes, R. Fream"

HOME COURSE ADVANTAGE?

LAGUNA QUAYS, Queensland, Australia — The new Turtle Point Golf Club here recently played host to the inaugural Australian Skins Game. This Graham/Panks design, which opened in 1993 will also be site of the Skins Game in 1995 and 1996.

Architect and former U.S. Open champion Dave Graham, a last-minute replacement for Nick Price, ended up winning the event — and \$70,000 — over Greg Norman, Ian Baker-Finch and Craig Parry. Apparently, design partner Gary Panks finished out of the money...

FOSTER IN THAILAND

CHIANG MAI, Thailand — Keith Foster and Associates of Phoenix, Ariz., has been retained by Prestige Properties Co., Ltd. of Bangkok to begin the design process for an 18-hole golf course here.

The resort layout, located near the King of Thailand's summer palace, will have a hotel and residential/business properties in its proximity.



UNDER THE COVER OF DARKNESS

Floodlights illuminate the East Course at Kuala Lumpur Golf & Country Club, a new Nelson, Wright, Haworth product. Lighted courses are becoming commonplace in Asia-Pacific.

GOLF STRATEGIES DEBUTS IN KUNTAN

KUNTAN, Malaysia — With Golf Strategies' first Asian course nearing completion in Malaysia, the design firm — under direction of principal and senior golf course architect Neil Crafter — has been retained to design 45 holes of golf at two separate locations on the Chinese mainland.

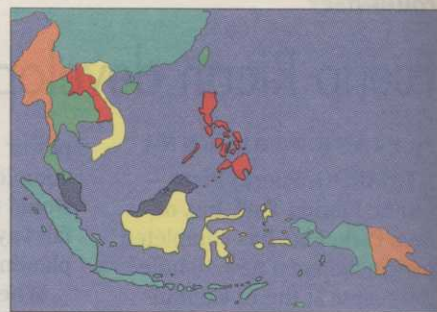
The Astana Golf Resort here in Kuntan is currently under construction, with an opening date scheduled for early 1995. This 27-hole member and resort course is located on the east coast of Malaysia in Pahang state, site of a former rubber and palm oil plantation.

Meanwhile, construction of the 27-hole Guangzhou South China Golf Club will soon commence near Zhenlong in Guangdong Province. Golf course approval has been granted, so ground should be

broken by mid-summer, according to Crafter. The development is slated to include a clubhouse and members hotel, together with commercial shopping facilities to serve the planned 500 villas in the residential precinct.

BATES, PIERMAN TEAM IN JAPAN

KAMEYAMA, Japan — Construction has begun on a high-end private golf course here in this resort area of Chiba Prefecture. A team from Pierman Golf Co. of North Palm Beach, Florida, and Scottsdale, Arizona, U.S.A., has been coordinating the project since February. Gene Bates and Associates of Palm Beach Gardens, Florida, is designing the 18-hole layout. Gary Bates, former U.S. construction manager for Jack Nicklaus Design, is project manager for Pierman.



"What they require as far as protection of environment is much more stringent and aggressive than anywhere in the U.S.," said Pierman of Chiba Prefecture.

CUPP TAKES ASIAN PLUNGE

Cupp Design Inc. has entered the Asian marketplace with the creation of Cupp Design International. Cupp offices in Atlanta and Oregon will support the firm's Asian business. Former U.S. Amateur Champion and PGA Rookie of the Year John Fought manages the Portland office. Michael Riley, who has extensive experience in Japan and Guam, is Cupp's East Coast design associate. Legends Golf Ventures-Asia of Singapore will represent Cupp in Asia.

For more information, contact H.H. Lim, Managing Director, Legends Golf Ventures-Asia, 4 Leng Kee Road, #02-05, Singapore 0315; telephone (65) 4722898. In the United States, contact Norman A. Carl, Legends Golf Ventures Ltd. 615-383-1464.

GRAVES ON THE SUBCONTINENT

BOMBAY, India — Veteran architect Robert Muir Graves has been retained to design a golf course here, as part of a residential complex supervised by Nikhil Vakharia, managing director of Fantasy Land. The project is being conducted with Byram Jeejeebhoy, director of the Jeejeebhoy Group of Companies and Madhu Vakharia, director of the Vakharia Group of Companies.

In East Malaysia, Robert Muir Graves Ltd. has signed on to design three more projects. Two contracts — Mt. Kinabalu Golf Course and Sabah Country Club — will be executed in Sabah, while Pinusuk Plateau Golf Course is located in Sarawak.



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CIRCLE #134

With Stenson, Faldo steps up design activity

By HAL PHILLIPS

WUHAN, Peoples Republic of China — With marketing guidance from International Management Group and architectural help from veteran designer Brit Stenson, Nick Faldo has leaped into the Asia-Pacific golf development fray.

With seven Asia-Pacific projects in the works — including Wuhan International Golf Club here — Faldo is executing his decidedly traditional design style and enhancing project cachet as only a world No. 1 can.

"Nick's objective is to remain at the top of his sport while, at the same time, steadily increasing his design activities," explained IMG's Mike Rielly, who handles Faldo from the firm's Singapore office. "What Nick Faldo means to a golf development is immediate credibility, especially in Asia where the process is always membership-driven."

"Asia is probably the world's most active market, and that's why Nick is focusing his efforts here. But there's a desire for Nick to be in every market."

Faldo has eschewed the idea of reeling off various "signature" courses with a series of different lead architects. Instead, he has wedded himself to IMG and Stenson, who cut his design teeth with the U.S. PGA Tour during the 1980s.

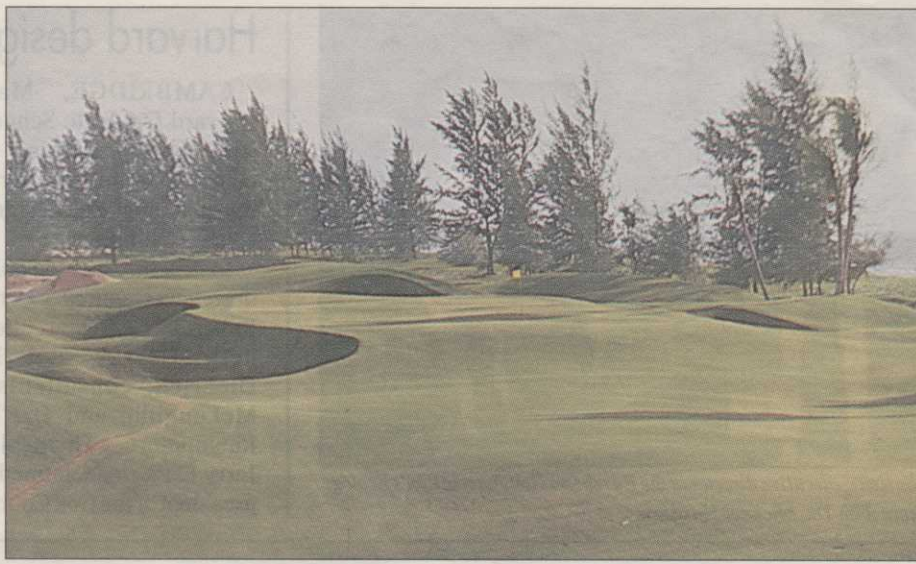
Working alongside Bobby Weed, Stenson handled construction of the highly successfully Tournament Players Club (TPC) courses before being named the PGA's director of design in 1988. He's responsible for the routing of TPCs in Nevada, Connecticut and Florida, all of which play host to PGA Tour and PGA Senior Tour events.

"If there's one thing that distinguishes Nick, it's that he wants the golfer to be confronted with options," Stenson explained. "He has a very strategic approach to the game. He wants the golfer to see the choices before him.... Nick has a very traditional approach and that comes through in the design. Smallish, grass-faced bunkers — what you might expect from a guy who grew up playing golf in Europe and Scotland."

It should come as no surprise the only finished Faldo projects reside in Europe: Chart Hills in Kent, England, and Sporting Club Berlin in Germany.

Yet the Briton is busiest in Asia-Pacific, where two Thai projects in Rayong should open this year. According to Stenson, nine holes at Great Lake have been grassed, while Century Country Club is close behind. Another Thai course — Floraville, north of Bangkok — is well under construction and remains about year away.

Rounding out Faldo's Asia-Pacific portfolio are Cikarang Estates in Jakarta; Royal Sumatra in Medan, Indonesia; and Mayflower in Sapporo, Japan.



Thai Muang Resort is a newly opened Perry Dye design in Phuket, a resort area of Thailand.

Perry Dye redirects; eyes American market

Continued from page 37

land. The last U.S. opening we've had was Cypress [Golf Club in Cypress, Calif.] in 1992."

The new focus for Dye Designs is not theoretical. It has already taken hold. A fall opening is expected for a city of Sacramento course, now well under construction. Dye reported his firm has just signed a deal to design and build a 27-hole golf complex, complete with driving range and teaching facility, in Jefferson County, Colo. Another municipal project — nine holes and range for the city of Englewood, Colo. — is nearly signed, sealed and delivered.

"The Jefferson County project is only 30 minutes from my office," said Dye. "It's our first project in state in about six years, which is sort of exciting — driving to a site."

"And these are less complicated jobs. Instead of moving three or four million cubic yards of dirt, we'll move 300,000."

Dye Designs was one of the first U.S. firms to take its product overseas in a big way, opening the door for flocks of architects to ply their wares in the lucrative, albeit speculative Asia-Pacific market. Yet Japanese money fueled much of the fire and, when the bottom fell out last year, Dye found himself overextended.

"We're still reacting to the Japanese bubble-burst," he said. "Right now, we have three projects under construction in Japan, whereas there have been times when we had 14!"

"I'm gratified the value of Japanese memberships at my courses has held up 10 to 20 percent better than those at other courses. Not only my courses: A few designers have seen memberships at their courses really hold their value, which speaks to the quality of our work."

Will the Japanese funding return anytime soon?

"I don't think so," he answered. "It's got to be second-stage. And by that I mean they've got to start spending money in Japan before they'll fund anything overseas. Singapore, Thailand and China will be the funding mechanisms in Southeast Asia for the time being."

Indeed, according to Dye, business is continuing as usual in Southeast Asia. He said the firm has just signed another deal in southern Thailand, while Thai Muang Beach Resort opens for play near Phuket this spring. Laguna National — the 36-hole, upscale Singapore project designed by Andy Dye — is about to christen its second 18.

"And I'm still getting calls to do par 3s — because of Chicago," said Dye, referring to the 9-hole collection of famous par 3s from the Family Dye, located on 30 acres in

downtown Chicago. "It was sodded before the snow came. We'll just have to see what lived and what didn't."

There's no getting around it: Dye Designs has been forced to downsize. Ten positions were eliminated in January, said Dye. The firm's focus has changed dramatically since the early 1990s, but some basic premises have not.

"You have to judge every deal by how much work it will be; where it's located, and how much you can do for the client," said Dye. "That never changes."

Baird chosen to design course at Riverbend Ranch

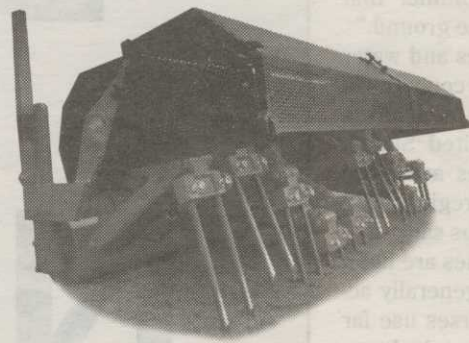
SANTA ANA, Calif. — Coombs, Inc., a Fresno developer, has appointed Gary Roger Baird Design International, Ltd. as the designer for its 18-hole golf course on the Riverbend Ranch site, just north of Fresno in southern Madera County.

The daily-fee track, situated on the banks of the San Joaquin River, will gently wind through some of the last remaining stands of great valley oaks and be adjacent to the river's riparian corridor.

Construction is scheduled to begin in June.

Private equity financing and contributed work in the amount of \$6.5 million will be used for the golf course. Bond financing of \$10.5 million may be used for the residential infrastructure scheduled to start in summer of 1995.

The engineering firm of Foresgren Associates of Salt Lake City and Gary Meyer of GRM Properties will be partners in the project with Coombs. Foresgren Associates/PA will also be acting as construction manager for the course.



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Ecology Unit

Continued from page 37
groups."

The Ecology Unit's major aims:

- improve the image of golf through a program of positive ecological initiatives;

- encourage a higher standard of environmental performance from the golf development industry and course managers;

- provide a serious contribution to the European golf debate; and

- ensure that the development and management of courses are not impeded by excessive, inappropriate environmental restrictions.

"In countries like Germany, Belgium and Austria, a lot of pressure has been brought to bear against golf development," Stubbs said. "Germany has severe restrictions involving chemical use."

"The media has published alarmist stories about golf being a toxic activity. There was never a rational, credible way for golf to respond. We needed something a bit more substantial. So we've created this program and a coordinated policy that will help us deal with environmental issues."

Stubbs said the unit will serve as a clearing house for information relating to golf and ecology. It will also play a key role in coordinating research, disseminating information and forging links with leading environmental organizations and official agencies.

"The U.S. Golf Association, [USGA Director] Jim Snow and the Green Section agronomists have been very helpful," Stubbs said. "They participated in a meeting in Spain last summer that helped get this off the ground."

Whereas pesticides and water quality are the major concerns of anti-golf environmentalists throughout the United States, environmental issues are more numerous and more regionalized across Europe, Stubbs said.

In Britain, pesticides are not a problem since it is generally accepted that golf courses use far fewer chemicals than agriculture, Stubbs explained. Greater concern is focused on the visual impact of golf courses on the landscape and wildlife habitat.

Throughout continental Europe, golf is often perceived as an elitist sport, making it a political issue that is often clouded by environmental arguments, Stubbs said.

In Germany, converting farmland into golf courses is strongly discouraged, even though large food surpluses exist that require large, government-paid farm subsidies, Stubbs added. But despite golf's attractiveness as a way to reduce surplus farmland, a strong agricultural lobby opposes any reduction in food-production acreage.

Overcoming the fears of environmentalists and local planning boards regarding golf development is the unit's long-term goal. It won't happen overnight, Stubbs said.

"This is a small step in that direction," he said. "But you have to walk before you can run."



David Stubbs (left), executive director of the European Golf Association's Ecology Unit, seen here with Dr. Michael Hurdzan.

Harvard design seminars June 13-14

CAMBRIDGE, Mass. — Harvard Graduate School of Design again is offering summer courses and workshops related to the planning and design of golf courses and resorts.

Instructors include golf course designers Geoffrey S. Cornish and Robert M. Graves; architects Kenneth DeMay and Richard Diedrich; consultants James McLoughlin and Dr. Michael Rubin; attorney Thomas J. Boczar; Jerry L. Pierman, immediate past president of the Golf Course Build-

ers Association of America; and William H. Sawyer, president of Golf Finance Inc.

Topics and dates include Golf Course Design, June 13-14; Golf/Residential Site Planning, June 16; Golf Course Development, June 15; and Golf Clubhouse Design and Site Planning, June 17-18.

For a catalog, contact the Office of Development and External Relations, GSD, Harvard University, 48 Quincy St., Cambridge, Mass. 02138; telephone 617-495-1680.

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New greens, fairways take shape at Hills' Bonita Bay

BONITA BAY, Fla. — A bird's-eye view of Bonita Bay shows nine new fairways and greens taking shape as the community adds a third 18-hole championship golf course by splitting one of its existing courses and adding nine new holes to each half.

The front nine of the Marsh course, opened in 1985 and ranked ninth in the state and 85th in the nation by *Golf Digest*, has been closed since mid-May. The greens are being rebuilt to United States golf Association specifications.

By mid-November, the new Marsh will open, along with nine holes of Bay Island, Bonita Bay's newest course. Bay Island's remaining nine holes are scheduled for completion in late 1994.

"With initial site work completed, we already can

see that the views are even more incredible than we had imagined," said Ed Rodgers, vice president of club operations for Bonita Bay Properties, Inc.

All three courses were designed by Ohio-based course architect Arthur Hills. Many fairways border wetlands sloughs and other natural areas which comprise one-quarter of the Bonita Bay site.

While three of Creekside's holes border Spring Creek, part of Bay Island will run along the western edge of Bonita Bay and offer dramatic views of Estero Bay.

Wadsworth Golf Construction Co. built the Marsh and Creekside, the second Bonita Bay course which opened in November 1990, and will build Bay Island as well.

Jones Sr. signs casino course deal

LEDYARD, Conn. — A deal has been struck, and a contract signed committing The Robert Trent Jones Companies to building an 18-hole golf course within the boundaries of the Mashantucket Pequot Nation.

The course is one of two to be built as part of an effort to upgrade the Pequot's Foxwoods casino complex into a destination resort.

The project will be a father-son collaboration of sorts, as the Pequots have hired Jones' son, Rees, to build the second course on the site. Design and specification work has begun on both layouts, but it remains to be seen what environmental obstacles may come in the way of construction. Developers hope clearing will begin before the weather makes work impossible next winter.

Robbins/Koch to design The Club at Mill Creek, N.C.

MEBANE, N.C. — Robbins/Koch Golf Designs, Inc. has been selected to design an 18-hole golf course here to be called The Club at Mill Creek.

The design team of PGA Tour player and ESPN golf analyst Gary Koch and architect Rick Robbins has planned a par-72 layout over 190 acres that feature mature trees, winding streams and rolling terrain with an elevation change of more than 95 feet. The semi-private, daily-fee facility will fit within the single-family residential community.

Robbins said the course will reflect a traditional style of design that will complement existing land features. The championship tees will stretch to nearly 7,000 yards, while the front tees will set the course at just under 5,000 yards.

Koch, a six-time winner on the PGA Tour, added: "Our primary objective was to create a course that will make golf fun. Mill Creek will be challenging, fair, and most important of all, playable for the average player."

The golf course and residential community is being developed by First Oakland Properties, Inc., headquartered in Raleigh, N.C.

\$20-million facelift for Grand Geneva

LAKE GENEVA, Wis. — Grand Geneva Resort & Spa is undergoing a \$20 million renovation, including improvements to its 18-hole Brute and Briar Patch golf courses.

A Scottish-style links course designed by Pete Dye and Jack Nicklaus, Briar Patch will undergo extensive work. A variety of holes on Brute will also be redesigned and renovated.

Last July, Marcus Hotels and Resorts of Milwaukee bought the property, which was known for 10 years as American Lake Geneva Resort. The facility was closed last fall and is reopening in May.

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CIRCLE #136

European golf development

Continued from page 15

courses, which now tend to be run by management companies. These courses also show a tendency to open up the courses for non-club members.

Great hope regarding future golf course development in Europe often focus on Eastern Europe, after the fall of the Iron Curtain. Only 17 new courses over the last four years show the reality, though. There may be lots of attractive sites for golf courses; there may be big plans for new developments; there may even be financial power of investors in the European East. Investors have been discovering, however, there is very little demand for golf, as there is no sufficient buying power among the population in Eastern Europe.

This has been proven true on the fields of East Germany, where more than 120 applications for new golf course projects have been filed — only 8 of which actually have come into existence. Most of them are concentrated around Germany's new capital Berlin and until now and most of them, with memberships of around 200 each, are not posting wild success. East Germans, suffering from higher unemployment and lower wages than their fellow countrymen in the western part, prefer spending on new cars, new household goods or traveling rather than putting down some 20,000 Deutschmarks for a share in a new golf course.

Estimates of the European golf federations show there are some 360 new courses under construction — or in an advanced stage of planning — in Western Europe. At the same time, only nine new courses under construction are reported from the countries of Eastern Europe.

Most of the new golf course developments are actually promoted by professional golf management companies watching out for the profitability of their projects. One major problem that does effect these economic targets is the very strong influence on planning and construction costs stemming from environmental constraints. The need to provide much larger golf course sites (85 to 100 hectares for 18 holes), so as to establish ecological compensation areas on the courses, has resulted in much higher costs. Further, bank deposits are required by authorities in order to secure the implementation of such ecological motivated measures.

The European golf industry in 1992, as shown in a European golf market survey provided for Messe Muenchen (Munich trade fair) last October, amounted to around one billion U.S. dollars in retail for golf equipment, plus some 210 million U.S. dollars for golf course equipment. Despite past impressions, there is little doubt Europe has to be taken seriously as a rapid growth market.

Broadcaster Ben Wright to design first U.S. course

TRAVELERS REST, S.C. — Journalist and historian Ben Wright of Flat Rock, N.C., will design his first golf course in the United States for The Cliffs Golf & Country Club, according to Jim Anthony, president and chief executive officer of The Cliffs Development Co.

Wright, who designed several courses in France and England before joining CBS-TV in 1972, will create The Valley Course for The Cliffs Golf & Country Club.

The Valley Course will be the centerpiece of Cliffs Valley, a 600-acre private planned community in the foothills of the Blue Ridge Mountains

in the northwest corner of South Carolina.

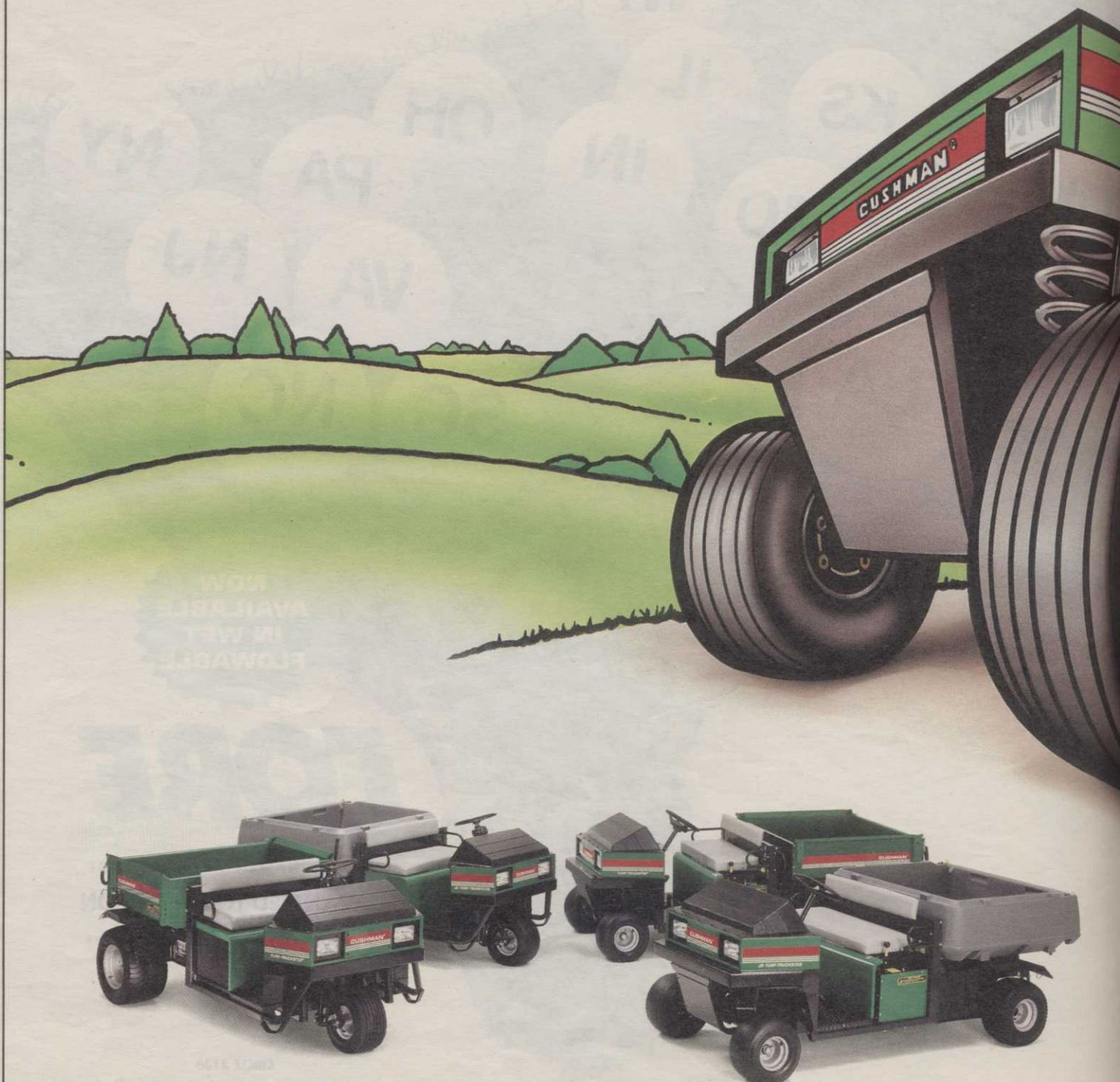
Wright will incorporate a classic golf course architecture philosophy at Cliffs Valley.

The course will flow with the land around a 12-acre lake and past the two streams on the property. Several small waterfalls are expected to be integrated into the creeks to enhance the visual and audio aesthetics of the golf round. Bunkering is expected to be used sparingly, and more as a directional than penal element. As a means of giving a common signature to both The Valley and Cliffs courses, Wright will use native granite boulders to frame lakes, streams and fairways.

New nine this fall at Weston Hills

FT. LAUDERDALE, Fla. — Greensmix recently completed blending the root zone soil mixture for the new nine holes here at Weston Hills Country Club, a Robert Trent Jones II design that annually plays host to the PGA Tour's Honda Classic. Greensmix also performed the blending for the club's original 18 holes in the spring of 1990. The new nine, built by Jones' in-house construction firm, Greenscape, is expected to open this fall.

Keep On



Playing hickory in the Old World

When Dr. Michael Hurdzan goes to Scotland or Ireland he plays with wooden-shafted clubs. Why?

"It's my way of gently protesting that you don't have to have [expensive] graphite-shafted clubs. You can enjoy the game with whatever equipment you have.

"Secondly, it gives me that feel of what links golf was all about. A lot of times I play with

a reproduction gutty ball. When I played St. Andrews I played one hole with a real 1890s gutty. It allows me to relate to what golf was like at that period of time. Wooden shafts were popular until the '30s."

Playing with wooden-shafted clubs, Hurdzan said, is "a different brand of golf. You don't hit the ball as far. You have to be a lot more accurate. You have to learn to keep the ball down."

Hurdzan Collection

Continued from page 37

"As it ended up, they probably both came out of Mac's own library. *Golf in America* has his signature and personal stamp in it." And the value of *Scotland's Gift* today? "A thousand dollars."

• Then there's a little paperback written by Robert Trent Jones Sr. The booklet was to be auctioned and Hurdzan wanted it so badly he bid \$95. "The auction results came out and I didn't get it. I was stunned." A friend who bid \$225 himself told Hurdzan it had sold for \$375. A short time

later, Hurdzan received a packet in the mail from architect Roger Rulewich, who had ripped a page of one of Hurdzan's books while photocopying. The packet contained the Jones book — signed by Jones and by Rulewich, who wrote: "For someone who collects rare treasures from the history of golf from someone who only manages to destroy them."

• In the realm of clubs, Hurdzan has many sets, but perhaps none as special as the wooden-shafted set made by George Nichols Co. in Scotland. While in Scotland, he visited the Nichols company and asked an old clubmaker about his

clubs. The man couldn't believe a set still existed intact, but when Hurdzan showed them to him, the clubmaker "broke down and cried," Hurdzan said. "He remembered those particular clubs."

• There is a world of clay pipes — you know, the kind you see the old Irishmen smoke in "The Quiet Man." Hurdzan found one, with crossed golf clubs, in a flea market in Columbus, priced at \$15. He bought it and later discovered it's worth about \$2,100 because the end isn't broken.

• Then there's the rare Braille Book for Golf, printed 1935.

• The greatest treasure of all is a Rembrandt print, *The Cloven Player*, sometimes called *The Golf Player*. Circa 1660, it is a second-state printing of a man golfing.

Club-fitting and teaching devices, scores of wood-shafted clubs ("I would buy any wood-shafted club for \$10. I've got thousands of clubs I've bought for \$5."), club buttons dating to the 1700s, an array of unique clubs — Hurdzan has them all.

"Among new items, I usually look for something that's not going to be on the market long — that I know is weird, or so ridiculous it won't be around long," he said, "like the putter with a level on it, which you can hide with a shutter. How many of those will sell? Not many. But my son 50 years from now will have an oddity."

On the one hand, Hurdzan said, "I've overdone it here. I collect everything. There isn't anything on the market that I wouldn't try to get some of." But on the other hand, "I get dupes to trade, but I never sell anything."

Hurdzan laments that golf collecting has become a business, and, today it is "buyer beware."

"A lot of people now are in it for the money, unfortunately," he said. "When I started, it was just collectors. And it was inexpensive. You could amass these things. A book like this that I bought for \$50 is now \$600 or \$700. And, not only is it a business, but there are forgeries. You have to be very careful."

His advice for collectors beginning today? "You have to decide: Are you collecting as an investment, or for something that you love. If it's for something you love, pick what you like — if it's books, stick with books. Then isolate yourself to instruction books, architecture books, travel books, whatever."

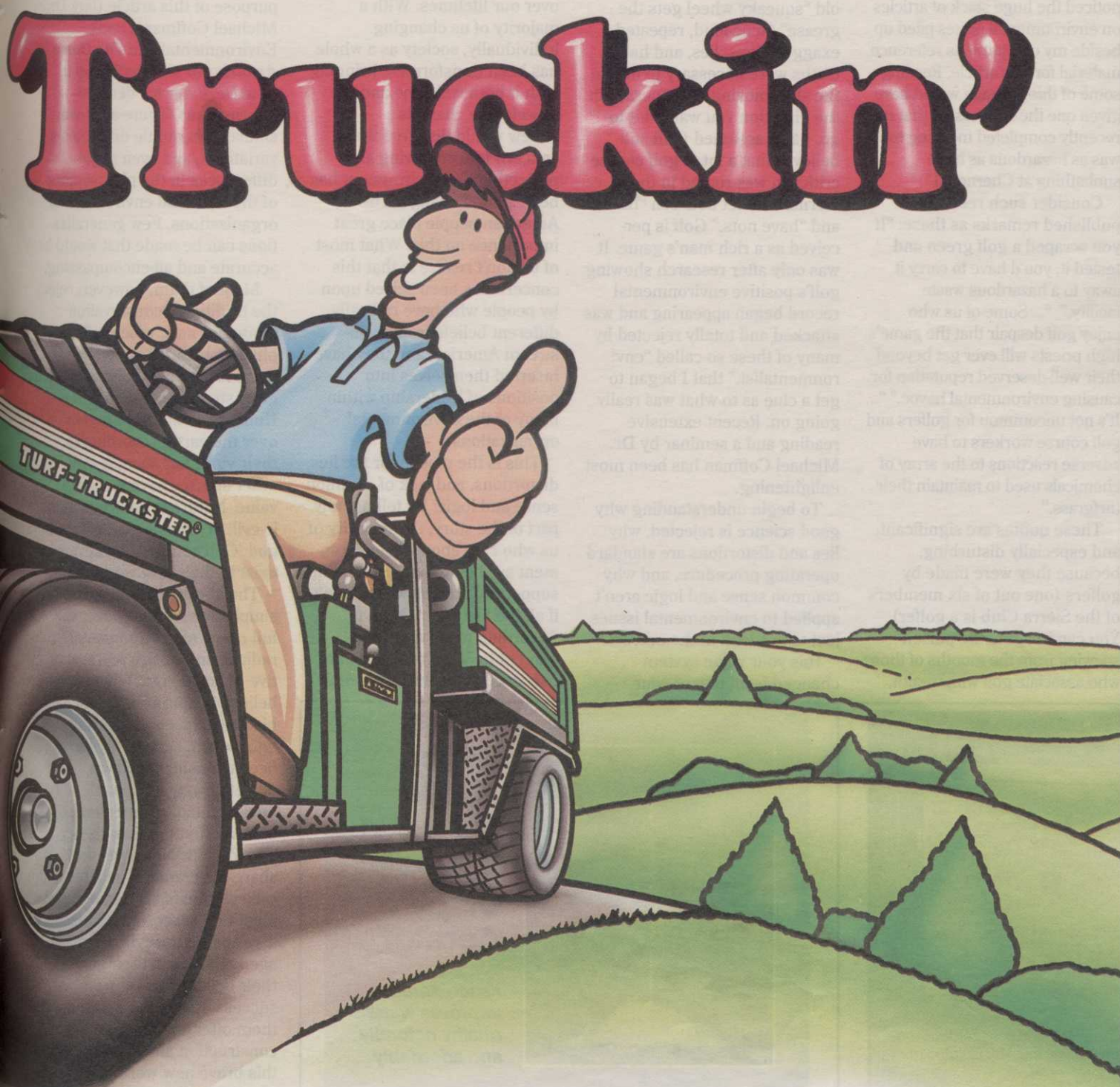
Other advice:

• Least expensively, a person can collect bag tags, pencils, tees, scorecards, balls, glassware.

• "I try to get the patterns to the golf clubs."

• "When I started out, if I could buy two second editions versus one first edition, I would buy the second editions. In retrospect, I should have bought the first editions."

• Join the Golf Collectors Society, which has regional and national meetings. "There are tables and tables of things for sale or trade. They have regional meetings as well."



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COMMENTARY

Why is the environmental movement so irresponsible? Look in the mirror...

By MARK JARRELL

I've worked on golf courses for 24 years and been a golf course superintendent for the past 20. Other than genetic arthritis, I have no serious health problems. I have had the same spray technician for 12 years and twice-yearly cholinesterase testing shows no signs of pesticide exposure problems. My gut feeling — which means nothing — is that superintendents as a whole are healthier than the population at large. I'd be willing to bet that I could take a group of Florida superintendents to the offices of the NRDC, Sierra Club, or Greenpeace, challenge them to a game of softball, basketball, or touch football, and kick their butts.

I have lived beside the second green at Palm Beach National for over 14 years. Last night I had to help my cat defend his supper dish from a raccoon who had pushed through the screen to get onto the back porch for an easy meal. During my course inspection run the next morning, I noted the squirrel population explosion and searched the trees for the hawk that has been hunting the property for the past month or so. The ponds had their usual sentinels of anhingas, herons, and egrets, posted in numbers and territories designated by

Mark Jarrell is head superintendent at Palm Beach National Golf and Country Club in Lake Worth, Fla. The above column, which originally appeared in The Florida Green, has been reprinted with the author's permission.

the Supreme Commander in Chief. Ibis and cowbirds scoured the fairways in search of insects, periodically glancing my way to make certain I maintained the proper distance. As I listened to the songbirds and watched the sun come up over the water, I thought that the only thing that could improve this lovely day would have been an appearance by one of our occasional visitors like the gray fox, pileated woodpecker, or great horned owl.

Returning to my office, my stomach began to churn as I noticed the huge stack of articles on environmental issues piled up beside my computer as reference material for this article. Reading some of this garbage would have given one the impression that my recently completed morning tour was as hazardous as nude sunbathing at Chernobyl.

Consider such recently published remarks as these: "If you scraped a golf green and tested it, you'd have to carry it away to a hazardous waste facility." "... Some of us who enjoy golf despair that the game's high priests will ever get beyond their well-deserved reputation for causing environmental havoc." "... It's not uncommon for golfers and golf course workers to have adverse reactions to the array of chemicals used to maintain their turfgrass."

These quotes are significant, and especially disturbing, because they were made by golfers (one out of six members of the Sierra Club is a golfer). You can imagine the poison spewing from the mouths of those who associate golf with wealth,

greed, power and Dan Quayle. To say that our fight has only begun and it is an uphill battle is a gross understatement.

For many years I've had trouble understanding the huge disparity between what I know of the golf industry and what those calling themselves "environmentalists" claim about us. I naively thought, at first, that maybe there was a lot of truth to what was being said — it didn't seem logical, but no science was available for corroboration or rebuttal. Then I began to think it was just the old "squeaky wheel gets the grease" tactic—loud, repeated exaggerations, lies, and half-truths were necessary to nudge the slow-moving bureaucracy in the direction you wanted it to go. I also assumed (and still believe) that a lot of golf course criticism was rooted in the eternal conflict between "haves" and "have nots." Golf is perceived as a rich man's game. It was only after research showing golf's positive environmental record began appearing and was attacked and totally rejected by many of these so-called "environmentalist," that I began to get a clue as to what was really going on. Recent extensive reading and a seminar by Dr. Michael Coffman has been most enlightening.

To begin understanding why good science is rejected, why lies and distortions are standard operating procedure, and why common sense and logic aren't applied to environmental issues, just take a look in the mirror!

Has your value system changed from that of your

parents and grandparents? Do you believe in all the same principles upon which this country was founded and made great? Would you say your religious views are traditional Judeo-Christian, or have you adopted other beliefs? Did the counterculture movement of the '60s have any influence on you, or did you just hide under a rock and ignore it all?

Few of us described as "Baby Boomers," who are now the core of the American workforce, could honestly answer that our value systems have not evolved over our lifetimes. With a majority of us changing individually, society as a whole has been transformed, bringing with it both welcome and unwelcome changes.

Few would disagree that concern for preserving and protecting the environment has been a good change. The American people place great importance on this. What most of us don't realize is that this concern has been seized upon by people who have radically different beliefs from mainstream America, and they have inserted themselves into positions of leadership within many of the environmental organizations.

This is the reason for the lies, distortions, and lack of common sense and logic: By telling only part of the story, the majority of us who care about the environment are being manipulated into supporting actions we wouldn't if all the facts were known. According to surveys, 25 percent to 30 percent of us are concerned citizens who deeply

care about what is happening to the environment; another 20 percent of us are very active environmentalists; and probably less than 5 percent of us are the radical minority of the environmental movement.

Among the radicals and actives are the ones with hidden agendas and ulterior motives. They have permeated the leadership of many environmental organizations, often taking over and shifting focus of some of the older, more conservative organizations. Their belief systems are their religion and, as in any religious war, the end justifies the means.

Listing and describing these organizations and their belief systems is too lengthy for the purpose of this article (buy Dr. Michael Coffman's book, *Environmentalism: The Dawn of Aquarius or the Twilight of a New Dark Age* for detailed information). There are many similarities, subtle differences, variations, and even major differences in the philosophies of these radical environmental organizations. Few generalizations can be made that would be accurate and all-encompassing.

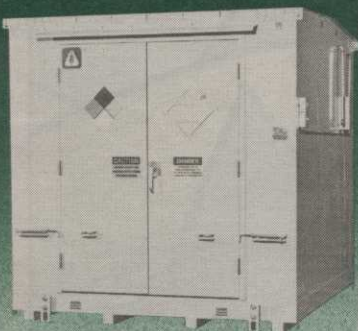
Most of them, however, reject the traditional conservation strategies and "wise use" philosophies. They believe there is no such thing as being a good steward of the land. Humans do not have dominion over the earth, according to their view, but share it with other species having equal value. Nature is good and man is evil; or, man is god, nature is god. Golf courses don't even exist in their new world order.

The above statements are simplistic and don't cover the full range of environmental radicalism, but are representative of key points. Whether they believe in animism, pantheism, biocentrism, eco feminism, gnosticism, eastern mysticism, neopaganism, occultism, planetization, sustainable development, maintenance of biodiversity, the Gaia theory, The Plan, or New Age, they share the common belief that a radical transformation of society must take place, and that using a sympathetic environmental agenda to attain their goals is their best opportunity for success. As far as I know, few of them offer any details for the construction and operation of this brave new world, just sketchy outlines of how wonderful everything is going to be.

Simple minds like mine always try to simplify things so I can understand them. As I see it, the conflict boils down to: Do your needs as a human always, usually, sometimes, rarely or never come ahead of other species? My guess is that a poll would reveal a bell-shaped curve, closer to how an easy schoolteacher would have graded a class with more "A"s

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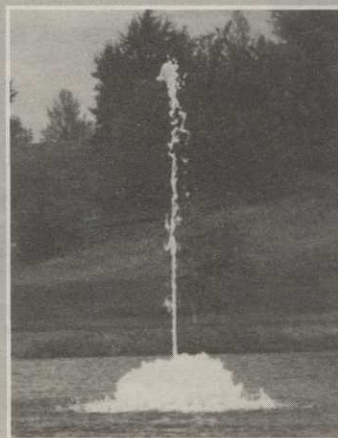
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Jarrell commentary

Continued from previous page

than "F"s. The problem is that this kind of a poll has not been taken; that people will lie and distort the truth to achieve their goals; and that active minorities will achieve political success over silent or misinformed majorities.

As one who cares about the environment, it greatly disturbs me that a noble cause is being subverted by groups with hidden agendas, individuals seeking personal gain, hypocrites who ask others to make sacrifices they won't make themselves, and religious fanatics trying to impose their values on others.

America is a democracy, and people cannot be denied their choice of beliefs, but they must be given factual information upon which to vote their choices.

I happen to believe that wise-uses strategies based on good science are the mechanisms to satisfy the desires of a majority of our population, but I may be outnumbered. Most Americans who believe in protecting the environment are middle to upper class who are far removed from the natural resources they depend on for their high standard of living. Those who know the least about managing natural resources are those most critical of natural resource industries, and support environmental legislation no matter what the issue or the cost. They believe "environmentalists" over scientists by about 5 to 1.

It is estimated that we now spend about \$1.7 trillion annually for all environmental regulation, with costs continuing to escalate.

Can we afford to continue passing legislation on the basis that it might be good for the environment? I wonder how many of us really understand the economic implications of environmental legislation, or the precarious position our country will be in if we continue down this path?

I urge all superintendents and all members of the golf course industry to dig deeper into the environmental issues, learn what lies below the surface, and help educate your members. It is much more than your job that is at stake.

The new Woods nine on Mackinac Island was designed by Jerry Matthews, the outgoing president of the American Society of Golf Course Architects, who does much of his work in Michigan.



Matthews' new nine on Mackinac blends with island's old-world feel

By KATHRYN A. CLARK

Something old. Something new. Golfers traveling to Michigan's Mackinac Island had better leave their automobiles behind. Motorized vehicles have been banned on the 2,200-acre island since the turn of the century, so transportation is by horseback, horse-drawn carriages, bicycle and by foot.

Yet, brand new to the historic resort area is a Jerry Matthews-designed nine-hole public course that opens this month.

Developed by Grand Hotel owner Dan Musser Jr., the Woods Golf Course is perched high on a limestone bluff, overlooking St. Ignace, the Straits of Mackinac and Mackinac Bridge. The hotel's first nine-hole course, The Jewel, was built in 1910 on land that once was the town's public cow pasture. A two-year renovation was completed on that track in 1987.

The first tee of the new Woods course is a 17-minute carriage ride from the 9th green of The Jewel.

Golf carts are available at both courses. The carts arrive by ferry

each spring. Each is harnessed to a horse to be pulled to the courses. (The carts actually motor under their own power. It just appears the horses are pulling them.)

The new nine, adjacent to the airport, is nestled among white pine, cedar, hemlock, white birch and maple trees.

Players will use three sets of tees, the longest yardage slightly more than 3,000 yards.

Matthews' layout required only minimal blasting, and that was to remove a seven-foot limestone ridge on the 4th hole. The course was carved out of rolling forested terrain, punctuated by numerous rocks and outcroppings that provide spectacular elevated rock tee areas and fairways accents.

A hill beside the cart path on the 5th hole has a historic British/American gun emplacement during the War of 1812.

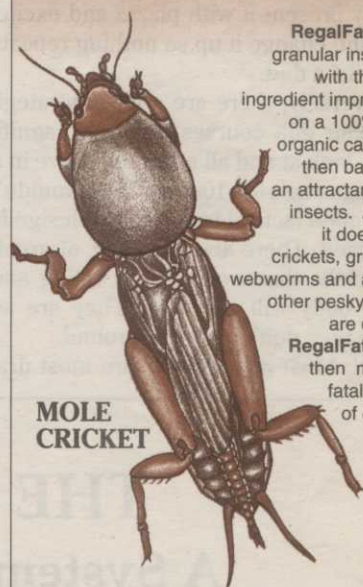
All construction equipment had to be transported to the island by ferry. According to Matthews, the difficult item was 900 yards of sand for the 30 bunkers.

DIRECTORY NOW AVAILABLE FROM GOLF COURSE BUILDERS

The Golf Course Builders Association of America has published its updated membership directory. The 128-page booklet contains names, addresses and descriptions of its member companies and the other Allied Associations of Golf, as well as an explanation of the GCBAA Builder Certification Program and a list of the 1994 Certified Golf Course Builders. A new feature in the directory is a seven-page construction reference section that contains measurement conversions and other useful construction information. Copies are \$10 each, and can be requested by contacting GCBAA headquarters, 920 Airport Road, Ste. 210, Chapel Hill, N.C. 27514; phone 919-942-8922.

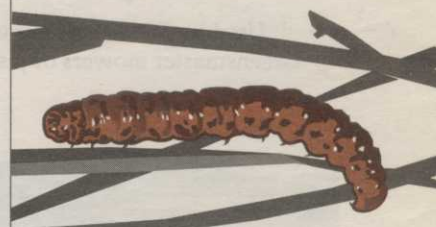
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Q&A: von Hagge

Continued from page 37

and developments and everything else. But you can rely on light as a dependable partner in your efforts.

GCN: How, in particular, have you eliminated the boredom you refer to?

RvH: About the last 12 years we've come up with 11 basic vertical shapes. Their positioning, size and how they interact with the light allows you to create a kaleidoscope of visual experience all day long. Simultaneously, it allows you to explain the shot presentation. The problem for the golfer to solve is much more easily portrayed with the way we use light. We're not just relying on humps, bumps and trees to do that.

I get a kick out of people talking about great golf holes, like the 18th at Pebble Beach. Put that in the middle of Oklahoma and I defy you to say it's a great golf hole. It's setting. It's the horizon vistas. It's the mood, that special feeling when you stand on the tee. And the sport of golf—you have a foursome, one guy's hitting the golf ball and three are standing around taking it all in. It's got to be total theater, 360 degrees. You can't build it like a stage prop looking forward. Nobody plays golf that way, and certainly the other three folks aren't looking straight ahead.

GCN: When did you start looking into lighting?

RvH: About 1980. Until then, we used the traditional approach—only with our own kind of expression. More and more, I began to see the overpowering importance of visual presentation. You can have a tactically wonderful golf course, but you don't visually present it with pizzazz and excitement and change it up so nothing repeats itself, it's a dud.

Conversely, there are a lot of strategically poor golf courses that are magnificent to look at and all of a sudden are in a golf magazine's top 100. And they wouldn't pass a good tactical test as far as design is concerned. There are a number of great, great clubs that aren't in any rating and that nobody will ever see. They are so private they don't want you around.

GCN: Most golf courses are most dra-



The 9th hole at Pelican Marsh/Bay Colony Golf Club in Naples, Fla., is a dramatic par-3, 154-yarder framed by Robert von Hagge's trademark bunkering. The project, designed for the Westinghouse Communities, won von Hagge Design Associates the 1994 Merit Award from the American Society of Landscape Architecture.

matic looking at sunrise or sunset. That's when you see the movement of the light the most.

RvH: Those are the most dramatic hours. After about 11 o'clock, most golf courses are dead meat until 3:30 or 4 o'clock. We take great pride in keeping that kaleidoscope of visual experience through shadow and texture and light changing right through those dead hours. I don't think anybody else is doing it. If so, I think it happens by accident. I think a lot of our architects today are like natural piano players or dancers: They can do it, but they don't know how or why. Or else they're guarding their secrets... That doesn't take away from their talent. We have enormously talented people out there now.

It's also the kinds of grasses you use as texture that either diffuses, absorbs or mutes light.

GCN: The old-time designers didn't have the equipment we have today...

RvH: But they didn't need them. They were physically picking green sites and maybe massaging 500 to 1,000 cubic yards of material. Now you're moving 7,000 or 8,000 for the same green site.

My father worked for Donald Ross and built four or five clubs in Florida for him and some around Chicago. If they would move 70,000 cubic yards of material with mules and slips and what-have-you, that was enormous. And he's got some classic golf courses. They moved 81,000 cubic yards of

material on Pinehurst No. 2, and what would you change about it? I mean, it's there.

In today's world it's different. You can't do anything decent in Florida that doesn't require moving at least 300,000 cubic yards of material—forgetting the fact that you might have to work with negative drainage. You're creating everything. First, if that golf course is any part of Florida and not in the boondocks, you have to create what we call the primary horizons—that's that first mask of green that blends into the long horizon that also simultaneously eliminates all that garbage would visually interfere with that interaction if you didn't put it there. We've done that a lot in the desert courses of California where the sun picks up glass of the desert that reflects during the day. But if you do that green mounding and sloping and blend it into the long mountain background, you're in a visually contained environment.

On every project like that you have to create a sense of arrival that envelops you when you go through the gate.

My wife could have done something at Augusta or Pebble Beach that would have been acceptable and she doesn't even play the game. But more and more, to justify the club as a business investment, the market location takes precedent over anything else. And oftentimes that's a deserted garbage dump, or some piece of terrible wetland that everybody has ignored but it's where people can get to it.

I get a little ornery when people speak of the great work Mackenzie and Ross did. They had the pick of a candy store! They were sent out on a mission by wealthy groups to go find the best site for the new clubs. I'm not saying they didn't do a good job. But the present-day architect seldom gets a shot at something like that. The really great sites are in dramatic settings, but you can't get to them unless you parachute in.

GCN: And they didn't have to do that 30, 60 years ago.

RvH: Not at all. Yet they were truly "country" clubs—considerably out of the urban area.

GCN: What have modern equipment and technology offered to the evolution or advancement of golf course design?

RvH: It's become more sophisticated and versatile. You can do a lot of wonderfully sophisticated nuances on surfaces now that were impossible 20 years ago. That's not only the equipment. It's also the growing talent on the guys on the machines. We have some shapers in America who are truly artists. That's been an enormous improvement.

That works directly with my feelings on the CADD system. You cannot do those sorts of things on a computer. We started with it and we still use computerized construction specifications and some heavy earth-moving drawings. But all the fine shaping and tailoring is done in the communication between the architect and shaper on site—because here again you're working with light and at various times of the day. Sometimes, if you need to create a bit of mystique or sophistication, it's working with three and four inches of dirt that rises and falls and still positively drains water across it. Plus, just three or four inches of dirt can either void out or bring into focus something magnificent on the horizon. That can't be put on a CADD system.

The long views are so important. The first thing we do on a site is inventory the horizons to make sure our primary backgrounds are always on dramatic shots. Eliminate the background at Pebble Beach and how much memory do you have of it? Or, we play away from smokestacks and other ugly things on the horizon, or eliminate it by moving dirt.

GCN: How large is your company's staff?

RvH: Sixteen people. Lead designers are myself and three architects who are partners in the company. All have been with me since they got out of school: Kelly Blake Moran, whose been with me for 11 years; Rick Baril, 13 years; and Mike Smelek, 13 years.

Myself and one of the three architects are common to every project. We make 60 to 75 visits per project. You have to spend time out there. The more you look, the more there is to see. It's usually the developer's lifetime shot and if you don't

Continued on next page

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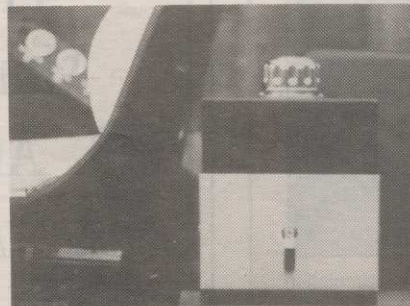


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Q&A: von Hagge

Continued from previous page

spend every buck well, you're delinquent.
GCN: Are there von Hagge School of Design graduates who have gone out on their own?

RvH: Yes. We had three with Nicklaus for awhile. Now they're all on their own. Rick Robbins started with us. Mitch Walker, who is now in the Orient. Lamar Bunn in

the Carolinas. Karl Litten in Florida. And three or four others.

GCN: Do you have a favorite golf course that you designed?

RvH: I have many for different reasons. Some for mere accomplishment because they were such a difficult undertaking and came out well. Some because they are visually spectacular, and I can't take a lot of credit for what was there. The last six years has been our best burst of golf courses ever. About 80 percent of our work is out of

the country, so Americans wouldn't be familiar with them.

GCN: What is the easiest country to work in?

RvH: In regulations, it's Mexico. It has none to speak of. But in some ways, it is the most difficult. You can't get anything done. The equipment is not in the country. Until recently, they have discouraged you bringing in any specialized talent from the States. They like to spread the wealth locally. It takes forever to get something done.

GCN: Will NAFTA [North American Free Trade Agreement] make a difference?

RvH: Yes. We have the tree huggers and Hush Puppies crossing the border in groves. And it should happen, or you'll have the rape of the most gorgeous property in the world. Everybody and their brother is trying to build a golf course down there now. And for every good one there are 20 real bad ones.

GCN: What is the toughest country to work in?

RvH: Sometimes it is the easiest, too: Japan. From a permit standpoint, it's really tough. We're dealing with a course in the Osaka area and there is permit after permit and permit. It's political football as it is in every country. It's a rich man's sport, so the guy who wants to get elected to office will make it difficult for you to get a club together. And still, when it comes to contractors, once you get the project mobilized and on stream, they are the best. They are wonderful.

GCN: You were perhaps the first architect to join with a touring pro [Bruce Devlin] and that dissolved. Would you do it again?

RvH: I was the first to undo it, too. No, never. It's nothing personal, because Bruce is a good guy. I brought him into my company in 1970 at his request. He wanted to learn about the business. Bruce's forte, like most of these players, was in the marketing aspect more than anything else. Bruce was playing a lot of golf and doing a lot of TV. His contribution was more in marketing. But we found for the kind of fees you get that you've got to have an equal division of time and attention if you're going to divide the revenues that way.

I do think for fledgling companies, it's probably a good thing. Like Rick Robbins:

It gives Gary Koch some cushion. He's announcing and trying to develop future sources of revenue. And it's good for Rick, who doesn't have a big identification yet.

GCN: How do you view the evolution of course design?

RvH: For so many years, most golf courses had the tee, the green, the fairway and a row of trees going down either side, with a couple of bunkers now and then.

That was architecture until, I think, when Dick Wilson and Robert Trent Jones began to turn it around in the early '50s. By the early '60s it was in full cry, and then it passed them... Us young pups took it up from there and developed it into a sophisticated presentation. I think very honestly I'm the only who's done anything since then at another level of *why* it [light and movement] should work that way and *how* you can control it.

Long after finishing touches applied, von Hagge stays in touch with clients

By MARK LESLIE

SPRING, Texas — Von Hagge Design Associates has developed a marketing program for its clients that extends six years after course opening and which Robert von Hagge calls "an award-winner."

"Instead of selling a roll of blueprints and showing up now and then, we stay involved," von Hagge said. "It's been a real boon to the guy who's invested his life savings in the project and doesn't know where to go."

With the program, he said, "We've been able to close over 70 percent of the potential members and real-estate buyers in our projects."

The marketing program starts with forming the board of directors, deciding the type of club (equity, non-equity), and forming the charter group. Von Hagge conducts three walking tours with prospective members, speaking on his design philosophy, "so they can become part of that creative effort."

By involving members, he said, "you begin developing the history and heritage of the club, the pride which turns into value which turns into profit."

"The country club is a social statement. The architectural statement is the golf course. But you want them to know you're setting out to create a

premiere, world-class facility that maybe does not exist in their area. We share every bit of it with [prospects] every step of the way."

Von Hagge also hosts two events for the media — one, a preview tournament before the members even get to play the course.

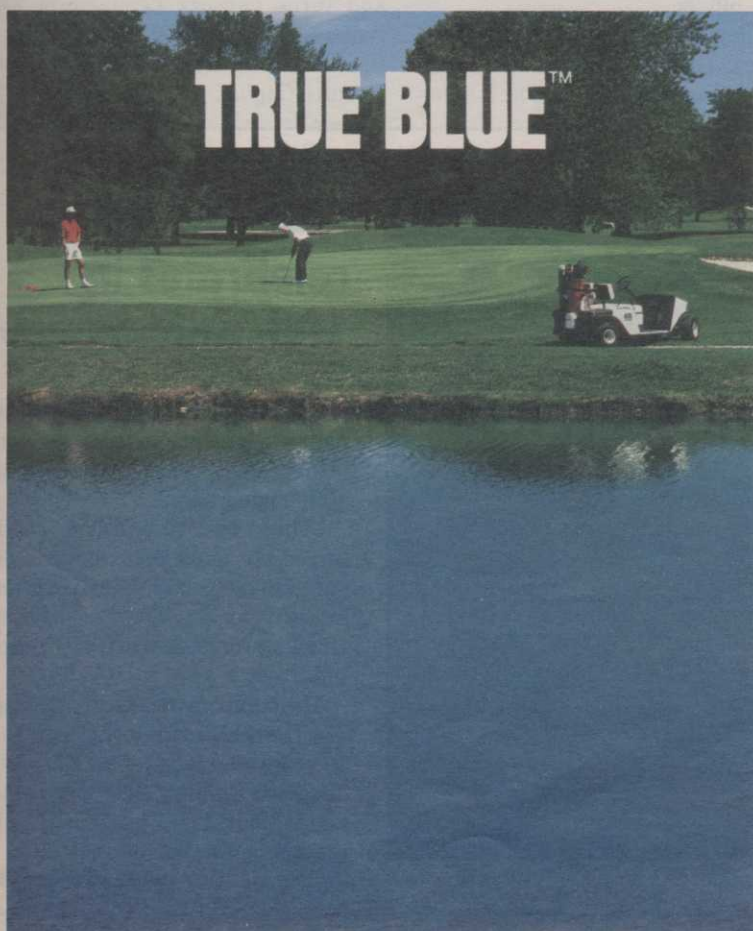
Von Hagge Design Associates trains the superintendent in similar circumstances before he takes the course over. The firm heads up the club's green committee for three years after the course opens.

"We have an arrangement with all our clients that we can do this internship with them," von Hagge said.

Involvement also extends to the landscaping.

"We look at the embellishment of the course because we don't believe you should landscape a course before it opens — rather just prior to or at opening," von Hagge said. "You can't design and construct a home and hang the drapes or pictures with any sense before that happens. It has to be up before you can really feel the mood of what is needed in what area. It's stupid to try."

He added: "We've been polishing this strategy because we feel we have to in order to stay in the strata we're in."



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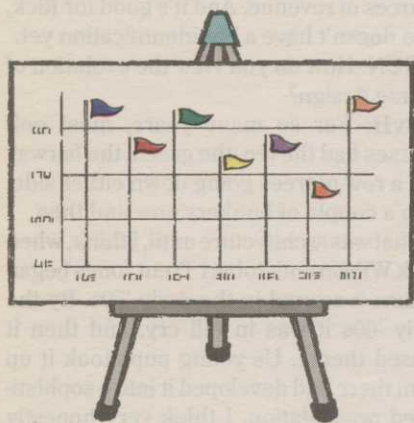
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BRIEFS



NATIONAL GOLF COURSE OWNERS ASSOCIATION MOVES OFFICE

CHARLESTON, S.C. — To accommodate its recent growth, the National Golf Course Owners Association has moved its national office across the bridge to Mt. Pleasant. The new NGCOA address is 1461 Center Street Ext., Suite B1, Mt. Pleasant, SC 29464. The new phone number is 803-881-9956; fax 803-881-9958. The toll-free number remains 800-933-4262.

CASPER TO BIG APPLE

NEW YORK CITY — New York Health & Racquet Club's HRC Indoor Golf & Country Club has hired Billy Casper Golf Management Inc. to provide management services. BCGM will provide daily club operations, marketing, public relations, programming and membership development services. The club has five golf simulators, 800-square-foot raised putting green, computerized swing analyzers and practice driving nets. New York Health & Racquet Club owns 10 Manhattan health centers with 30,000 members.

CLUB FOUNDATION NAMES BERNHARDT

ALEXANDRIA, Va. — Lawrence Bernhardt was recently elected to the Club Managers Association of America's Club Foundation. Bernhardt is chairman of Boca West Country Club in Boca Raton, Fla. and was instrumental in the Boca West community's recently announced \$22 million expansion and renovation program. The Foundation sponsors programs for continuing education and professional development, establishes college courses geared to the club industry, provides research grants for studies dealing with the club industry and awards scholarships to practitioners and students.

PALMER TAKES OVER LA COURSES

ORLANDO, Fla. — Arnold Palmer Golf Management Company has been selected by the Los Angeles County Department of Parks and Recreation, among the largest municipal owner of golf courses in the United States, to operate the Whittier Narrows and Victoria golf courses. The acquisition of the long-term leases are early steps in Palmer Golf's plan to acquire and lease \$50 million of golf facilities.

SCGA RENAMES COURSE

MURRIETA, Calif. — The Southern California Golf Association has renamed the Rancho California Golf Course it purchased this winter from the SCGA Members Club at Rancho California.



Future site of Oak Valley Golf Club, an Arnold Palmer design to be managed by the Carolinas Golf Group

Carolinas Golf Group expands reach in focus area: Southeast

By PETER BLAIS

RALEIGH, N.C. — If you evaluate a young firm's growth by the company it keeps, you'd have to say Carolinas Golf Group (CGG) is a success in the making.

Oak Valley Golf Partners recently signed on CGG to oversee construction and eventually operate a new Arnold Palmer-designed course scheduled to begin construction this fall.

Oak Valley Golf Club will be Palmer's first course in the Winston-Salem area and the fifth project (all located in North Carolina) in CGG's growing stable of upscale, daily-fee golf facilities.

In addition to Oak Valley, CGG owns and/or operates Devils Ridge Golf Club in Holly Springs, The Neuse GC in Clayton, Lochmere GC in Cary and Nags Head Golf Links on the Outer Banks.

A regionally focused company, CGG's goal is to have acquired or leased 10 to 12 golf clubs throughout the Southeast over the next three to five years. The company has no interest in management-only arrangements because of the smaller return on investment than is available with ownership/lease situations, according to company President Stuart Frantz.

"We have a very tight business and geographic focus. And we aren't afraid to take the economic risks associated with ownership," Frantz said.

"Courses we'll look at must have the

potential financial strength to return a reasonable profit. And they must fall within the Washington, D.C.-to-Atlanta area."

Course owners from other parts of the country have approached CGG, Frantz said. But the company is intent on limiting itself to the Southeast.

"Going outside that area would simply stretch us too thin," he explained. "As one of our principals likes to say, 'One of the best fertilizers is the owner's footprints.'"

The ideal situation is to develop

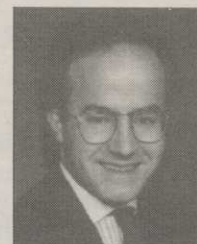
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MARKETING IDEA OF THE MONTH

Find a niche and stick with it, marketer advises

By TIMOTHY GRAYSON

Last week I was having lunch with a friend. He had been the marketing director at a nearby golf course since it opened three years ago. We got to talking about how he had enjoyed creating a new, upscale course from scratch.



Timothy Grayson

"It was a great experience," he said, "but toward the end I was having trouble with some golfers."

Considering they were almost matching the annual number of rounds of the most established courses in the area, I was curious to hear more.

He explained that he had put their message to the market through advertising and promotion. Maybe too well, he thought. They had initially described it as the most challenging championship course in the state. Their television ads showed their wicked eighth hole: A par four that demands an accu-

Continued on page 57

LinksCorp purchases Miss. layout

NORTHFIELD, Ill. — LinksCorp has purchased Castlewoods Country Club in Jackson, Miss., the company's third acquisition in less than a month and seventh overall.

"We are very excited about buying a quality facility like Castlewoods, especially with the new nine holes and course renovations recently completed by Golden Bear designs," said Ben Blake, the company's president and chief executive officer.

The new nine brings Castlewoods to 27 holes. The existing 18 will remain open this summer while the new holes

mature. The new nine will open later this summer. Clubhouse renovations are also planned.

Other LinksCorp facilities include Tamarack Golf Club in suburban Chicago, Temple Hills GC in Nashville, Tenn., Rockwood GC near Kansas City, Mo., Glenlakes GC near Gulf Shores, Ala., and Hickory Hill GC in Biloxi, Miss.

LinksCorp is owned by management and three venture capital firms — Batterson, Johnson & Wang; William Blair Venture Partners; and Northwest Venture Capital.



Club Resorts is undertaking extensive renovations at The Homestead

Club Resorts Inc. celebrates its 10th anniversary

Club Resorts Inc., among the nation's largest conference resort owner/operators, is celebrating its 10th anniversary.

"These past 10 years have been incredibly good ones for us compared to the volatile situation in the industry as a whole," said James Hinckley, president of Club Resorts Inc.

The company recently purchased The Homestead in Hot Springs, Va., 10 years after it acquired Pinehurst Resort & Country Club, one of the nation's oldest and best-known golf resorts.

Continued on page 57

N.J., Va. firms join forces, expand management services

WILLIAMSBURG, Va. — Golf Business Advisors of Williamsburg and Matrix Hospitality of Cranbury, N.J., have entered a joint venture to expand their golf services.

"We will work together to provide a range of services, from consulting through acquisition and management, of golf and country clubs from Maryland to South Carolina," said Golf Business Advisors' owner Jeff Fleishman.

Golf Business Advisors was founded more than a year ago to help resorts, real estate developments and stand-alone golf courses increase business and improve operations. The firm is also in the course brokerage business. Fleishman is a 17-year veteran of the golf business. Before es-

tablishing his own firm, he was with the Kingsmill Resort in Williamsburg, where he held various resort management and marketing positions. He is past president of the Virginia State Golf Association.

Matrix Hospitality provides hospitality-related services to operators, owners and developers of hotel, golf clubs, resorts and conference centers. Services include concept development and implementation, financial analysis, sales and marketing, staff analysis, training and management. Matrix is a division of Matrix Development Group, among New Jersey's largest real estate developers. Matrix's portfolio includes Forsgate Country Club in Monroe Township, N.J., and Commonwealth National Country Club in Horsham, Pa.

MSI offers turnkey club program

BLOOMFIELD HILLS, Mich. — With the affiliation of Total Golf Management, MSI Companies now offers clubs, golf courses and golf club operations complete turnkey services, according to MSI President Craig Andrews.

"We now provide complete innovative development, management, and operations capability to developers, club managers and golf course owners and operators," Andrews said.

MSI develops computer systems and software designed to integrate all management func-

tions for athletic, luncheon, meeting and golf club operations. Included are accounting, accounts payable/receivable, membership management, reservation systems for restaurant and tee times, and information processing.

In addition to many golf club and course operations in Michigan, MSI provides management services to clubs in Illinois, Indiana, Ohio, Kentucky and North Carolina.

MSI consists of MSI Systems, MSI Club Management Systems, MSI Total Golf Management and MSI.

Tinkey's new firm to diagnose course problems

MT. PLEASANT, S.C. — Mike Tinkey has formed Sports Management & Marketing Services, a consulting company specializing in golf, tennis and resort operations.

Tinkey, formerly chief operating officer of South Carolina's Royal Golf & Tennis Ltd. on Hilton Head, was also president of Wild Dunes Resort in Charleston.

He compares his new firm's services to those of a general practice physician, who performs periodic and annual checkups, analyzes data and prescribes courses of action.

Secret shopper services, operations assessments and analysis, comparative research, marketing communications, tournament and event planning, and project implementation are among the offered services.

Tinkey employs a network of professionals who engage in a team approach to handle larger, complex projects and individual professionals to handle specific needs such as food and beverage operations, retail golf maintenance operations or financial analysis.

Engagements vary based on needed services and range from hourly/daily consultation to contracts based on a specific project to ongoing monthly retainers.

In addition to his positions at Royal Golf and Wild Dunes, Tinkey is past president of the Lowcountry Golf Course Owners Association, president of the South Carolina Golf Course Owners Association and a board member of the National Golf Course Owners Association. He has spoken at numerous golf industry and association conferences, workshops and conventions.

Sports Management & Marketing Services is located at 208 Venning Street, Mount Pleasant, S.C. 29464; telephone/fax 803-881-9101.

GOLF COURSE NEWS

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bottom into a screw-off cap. To keep it close to potential divots, we made it as easy to move and position as the tee markers it's designed to

sit next to. And to remind players to use it, we even included a friendly reminder decal. ♦ Like all Standard Golf products, our new Seed & Soil Caddy is designed to last for years of trouble-free use. The integral steel spike is precision-welded for extra strength, and the large capacity

reservoir holds plenty of seed and soil. ♦ Our new Seed & Soil Caddy makes it easier for players to keep tee areas healthy! Contact your nearby Standard Golf distributor and ask about our Seed & Soil Caddy. It's good medicine for your tees!



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SG-181

Carefree looks to add upscale resorts

By PETER BLAIS

CARMEL, Calif. — The 14th green is 95 yards wide and just 17 yards deep. Over those 95 yards a ball can pass through seven tiers, making approach shots difficult and long putts impossible.

"Pete Dye says he had nothing to do with it," chuckled Carmel Valley Ranch head pro Andy Cude, referring to the architect credited with the course's design.

"Pete was working on PGA West at the same time he was designing Carmel Valley. He didn't get up here a lot, so the construction crew took some things on themselves. Pete says the 14th green is one of several items he never quite intended."

At the urging of the new owners, Carefree Resorts, Dye has returned to Carmel Valley to modify the 14th green as part of the \$1.2 million remodeling about to get underway at the Northern California resort. That's the type of money the recently launched firm is prepared to spend to get its operations up to snuff.

Carefree is upgrading the three facilities in its high-profile resort portfolio — The Boulders in Phoenix, The Peaks at Telluride (Colo.) and Carmel Valley — and actively pursuing additional resorts.

"We're particularly interested in Mexico, Hawaii and the Caribbean," said Vice President of Marketing Michael Surguine. "If we add one property per year, we'll be satisfied. We don't want to be the largest resort operator, just the best."

To be considered for purchase, Surguine explained, a resort must meet three criteria. First, it must have a "magical" setting in a unique environment. Second, every amenity must blend in with the surrounding environment. And third, amenities and services must give guests the chance to interact with the environment.

"If you play golf at Carmel Valley or The Peaks, you're likely to see deer and foxes in the fairway. At The Boulders you'll come across rabbits and coyotes," Surguine said.

Carefree is a spinoff of Westcor — a major owner, developer and manager of retail, office, industrial and hotel properties in Phoenix. Westcor developed The Boulders, which opened in 1985. The Boulders has become one of the best-known resorts in the country. Two Jay Morrish-designed courses are major draws for the 1,300-acre facility in the Sonoran Desert foothills of Carefree.

The Boulders' success prompted Westcor founder Rusty Lyon to create Carefree Resorts. Lyon considered launching Carefree as early as 1989. But he waited, knowing the easily available credit fueling the acquisition boom of the late 1980s would eventually dry up. When banks stopped lending in the early 1990s, a financially healthy Westcor/Carefree was well-positioned to purchase property at more reasonable prices, Surguine said.

Following an unsuccessful acqui-

sition run at Rock Resorts — a group of small, boutique resorts founded by the Rockefeller family — Lyon launched Carefree last fall.

The new company moved quickly. In joint ventures with Morgan Stanley Real Estate Investment Fund, Carefree bought The Peaks at Telluride in September and Carmel Valley in October.

The Peaks is a mountain resort with a nearby championship golf course designed and still owned by the developer of the Telluride Ski Area. The pro shop and clubhouse are located within the Care-

free property and the course is used extensively by hotel guests.

Carefree has made Director of Agronomy Ed Miller — who oversaw renovations to Pebble Beach for the 1992 U.S. Open — available to The Peaks' course. Miller also oversees maintenance at The Boulders and Carmel Valley.

The major renovation at The Boulders involved resurfacing 33 greens with a desert bentgrass developed at the University of Arizona. The grass requires less water and has eliminated any poa annua, Surguine said.

As for Carmel Valley, course modifications are part of an overall \$3 million renovation plan that includes upgrades to the clubhouse, tennis and hotel operations. The main objectives are to eliminate blind shots off tees and improve visibility on approach shots, Cude said.

The major earthmoving work will be done on the mountainous 11th through 14th holes. Work was scheduled to begin in the fall, but may be moved up to summer, Cude said.

Bunkers will be repositioned and green elevations lowered on several holes making them more re-

ceptive to run-up shots. Water features will be added on the 2nd and 3rd holes. A new underground boiler system will circulate warm water under the 2nd green/3rd tee complex, where constant shade makes growing grass difficult.

Removing and transplanting trees along four holes will improve views of Carmel River.

"Just changing mowing patterns will make a difference," Surguine added. "Right now fairways run up to a very penal rough that continues all the way to the green. We'll cut back roughs so it's easier to stay within the fairway up to the greens."

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reason everyone chose it last year.

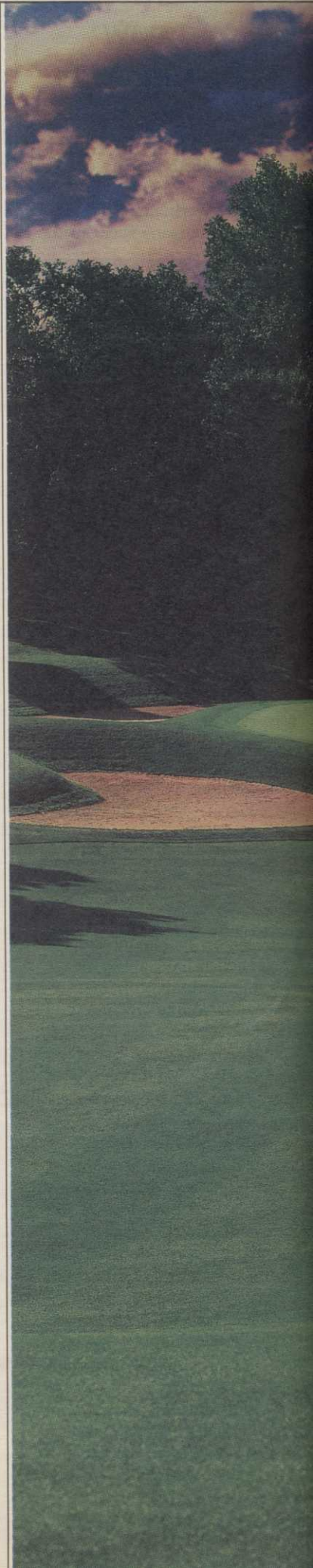
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And the year before that. And the year

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before that. And the year before that.

CY



CGG plans on steady growth in coming years

Continued from page 53

clusters of three to five courses, allowing CGG to maximize revenue generation, management expertise and the use of expensive capital equipment, Frantz said.

Lochmere, Devils Ridge and The Neuse give CGG such a cluster in the Raleigh/Durham/Chapel Hill triangle. Oak Valley gives the company a foothold in the Winston-Salem market and Nags Head in the Norfolk, Va./Outer Banks area.

CGG is confident it can meet

'We'd like to develop sort of a farm system with our assistant superintendents and assistant pros advancing to head positions as facilities become available.'

— Stuart Frantz, CGG President

its acquisition goal because of its management team. As a group, team members have 150 years combined business experience, most in the golf business.

Frantz and Chairman Roger

Watson founded the company in 1963. Watson has 26 years experience as a golf professional, director of golf and course owner. He has developed six championship golf courses.

Frantz worked many years in commercial banking. He was senior vice president at Wheat First Securities in Raleigh when he first met Watson, who then owned nearby Wildwood Green Golf Club.

Also on the management team are:

- Vice President/Secretary Donnell 'Buck' Adams, a successful PGA Tour player and head professional at the Country Club of North Carolina since 1963.

- Vice President/Treasurer Richard Urquhart, a certified public accountant and president at the Country Club of North Carolina since 1963.

- Vice President of Golf Operations J. William Hamilton, a long-time head professional, golf director and general manager.

- Vice President of Development and Grounds David Brooks, a golf professional and executive who has been actively involved in construction, development and maintenance of several golf clubs.

Superintendents answer to Brooks and head pros to Hamilton. The two positions are considered equal at CGG facilities, Frantz said.

"We'd like to develop sort of a farm system with our assistant superintendents and assistant pros advancing to head positions as facilities become available," the company president said.

CGG is developing retirement and ongoing training programs for its 110 employees.

Surveys and customer interviews are used to determine what products and services customers want and how the course can be improved.

Keeping employees motivated and promoting positive change are the goals of charts and grades evaluating various aspects of course operations. Updated materials are placed in visible locations weekly, providing immediate feedback.

"We rate the quality of greens, tees, fairways, bunkers, food and beverage service, pro shop and other areas," Frantz explained. "At Devil's Ridge, for instance, most of the Bermudagrass died in the fairways a while ago. Our customers rated us down in that area. Within a week, we had put in 40 truckloads of new sod."



Carolinas Golf Group President Stuart Frantz

Year after year, BAYLETON® fungicide has controlled the tough diseases. Like summer patch and dollar spot. Not to mention a broad spectrum of other turf diseases.

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For more information, contact Miles Inc., Specialty Products, Box 4913, Kansas City, MO 64120. (800) 842-8020.

It may be the most consistently rewarding choice you make.



CIRCLE #147

GolfCorp adds four new executives to growing corporate staff

ClubCorp. division looks to add 25 courses by '97

DALLAS—GolfCorp has added four new members to its management team as it seeks to acquire 25 new golf facilities by 1997.

Jack Lupton has joined GolfCorp as chief financial officer from its parent company, Club Corporation International (ClubCorp).

Also signing on with GolfCorp are Bob Bascher, senior vice president development; C.J. McDaniel, senior vice president marketing;

and Mike Ussery, regional manager/Texas properties.

Lupton has 15 years with ClubCorp. He served with its financial subsidiary, Financial Management Co. (FMC), as senior vice president, vice president of accounting and divisional controller of city clubs.

Bascher was appointed just prior to GolfCorp's recent purchase of The Royal Golf Course at Queen's Harbour Yacht and



Jack Lupton



Bob Bascher



C.J. McDaniel



Mike Ussery

Country Club in Jacksonville, Fla. He oversees GolfCorp's three Florida facilities and will move to Dallas in May to lead strategic planning and new club develop-

ment. Prior to GolfCorp he was with Arnold Palmer Golf Management Co.

McDaniel will direct advertising and communications pro-

grams for GolfCorp's 30 nationwide facilities.

He was formerly vice president with sportswear manufacturer Bobby Jones International.

Ussery will oversee GolfCorp's seven Texas facilities and be responsible for generating new acquisition and management opportunities.

Prior to GolfCorp, he was owner of Dallas-based Great Southwest Golf Properties and headed his own real estate/development firm.

When it Comes to Performance...



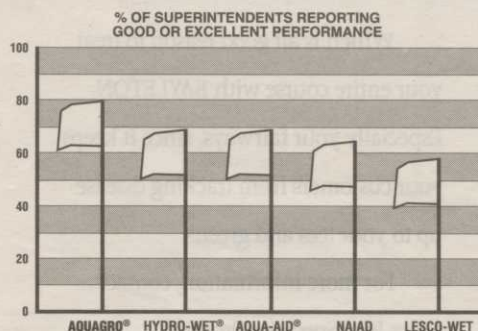
Our Competitors are Behind Us 100%.

Since 1954 when AquaGro® was introduced to the nation's golf courses, hardly a year has passed that some company didn't come along with a new wetting agent. Most products have vanished like the morning dew they claimed to control. A few brands have managed to demonstrate their residual effectiveness, but year after year AquaGro remains the hands down favorite among golf course superintendents...because on the golf course performance counts.

The Top Performer

Don't just take our word for it. According to a survey of golf course superintendents conducted last winter by the Center For Golf Course Management's Market Research Division, AquaGro remains the most popular brand by a large margin. CGCM found that more AquaGro users are satisfied with the product than users of any other brand of soil wetting agent.

To our delight not only did AquaGro receive the highest satisfaction rating, it also received the lowest "poor" rating. Only 1.5% of the superintendents responded that they were dissatisfied with its performance. Among the leading competitors 8.1% of the Naiad users, 7.6% of the Lesco-Wet users, 6.1% of the Aqua-Aid® users and 3.7% of the Hydro-Wet® users rated the performance of their wetting agent as "poor".



We sincerely thank the nearly 1000 superintendents who participated in this survey, and the thousands of loyal AquaGro users who vote each year with their budgets.

Satisfaction Guaranteed

In addition to being the most popular soil wetting agent on the market, AquaGro is the only one carrying a money-back performance guarantee.

AquaGro is available in Liquid, Spreadable and Pellet formulations. Aquatrols also offers the Little Squirt and PPM Unit precision irrigation injectors, the Advantage™ pellet applicator, the Dilute 'n Shoot™ hose-end proportioner and the Dose-It™ portable injector.

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Workers' comp

Continued from page 1

Association (OGCOA) program.

The average golf facility in the OGCOA program pays 72 cents per \$100 of payroll for workers' comp coverage on course maintenance employees. Under normal circumstances, they would pay \$4.23 per \$100 of payroll, according to OGCOA Executive Secretary Allan Whaling.

For the average course, that's a savings of \$4,000 to \$5,000 annually, Whaling said. The 120 golf facilities taking advantage of this year's program saved a total of approximately \$600,000. Whaling estimated those numbers will rise to 153 golf facilities and a total savings of \$800,000 in the 1994-95 fiscal year.

"I can't imagine why anyone who is eligible for the program wouldn't take advantage of it," said Chuck Bennell, owner of Tam O'Shanter Golf Club in Canton and a past association president. "We save several thousand dollars a year."

"The savings are important," Whaling added. "But even more important is that courses are appointing someone to be a safety officer and safety programs are being incorporated that make golf courses a safer place to work."

Ohio association members are invited to submit their safety records to Frank Gates. Based on that information, Gates and the OGCOA board of directors decide who will be accepted into the program. Golf facilities with no or few workplace accidents generally get the nod.

"Gates helps us [course owners] put together the paperwork, deal with worker safety issues, develop safety manuals and work with government regulations," Bennell said. "They teach our managers to train employees how to work more safely and comply with the law."

"As manager of a family-run golf course, it seems as though you often spend more time trying to satisfy government agencies than trying to satisfy customers. A program like this gives you the time to refocus on your customers."

Any OGCOA member can apply for the program. Joining the association costs \$75 annually for nine-hole facilities and \$125 for courses with 18 holes or more.

Private courses can also join. Whaling estimated there are 660 Ohio facilities eligible for OGCOA membership.

GOLF COURSE NEWS

Marketing idea

Continued from page 53

rate tee shot angling across a river to a small landing area; then another long iron over still water to a big rolling green.

The pre-opening promotions worked well, and every John Daly wanna-be was ready to try this course that's 45 miles from the city anchoring the market area. Sure enough, the eighth hole is a mean one. But the other seventeen holes are nothing extraordinary.

"So what's the problem?" I asked.

Last summer they found a lot of people were not playing the course because they thought it was too tough. Even though they had never been there, what they had seen or heard about it indicated the course was beyond them.

My friend was put out by this problem. "The course really isn't

Timothy Grayson has a marketing consultancy called Timothy R. Grayson Services, based in Winnipeg, Manitoba, Canada.

Club Resorts

Continued from page 53

In addition to The Homestead and Pinehurst, Club Resorts owns and operates Barton Creek (Austin, Texas), Quail Hollow Resort & Country Club (near Cleveland), Shangri-La Resort & Conference Center (near Tulsa, Okla.), and Shanty Creek Resort (Traverse City, Mich.).

The company also has consulting agreements with the Ocean Reef Club (Key Largo, Fla.) and Cranberry Village Resort (Collingwood, Ontario, Canada), which was added last year and is the company's first foray into the Canadian resort market.

"Through discriminating acquisitions and occasional management or consulting contracts, we've increased our revenues more than 20-fold and our 193 operating profits were up 26 percent," Hinckley said.

The company president said Club Resorts, a subsidiary of Club Corporation International, will continue to seek new resort properties.

"We will continue to focus our growth strategy primarily on acquiring resorts of the same caliber as those already belonging to our family," Hinckley said.

"While we are not a chain, but a collection of unique properties, there are preferred similarities at each Club Resort, such as championship golf courses combined with other recreational amenities, good meeting facilities, a four-star status or the ability to achieve that status, surrounding real estate options, proximity to Club Corporation of America clubs, and destination appeal to CCA members."

Specifically, Club Resorts is interested in entering markets such as Colorado, Arizona, California, Florida, the Caribbean and Mexico, Hinckley said.

that difficult," he lamented.

I felt like smacking him on the head, but laughed instead. "Do you realize how stupid you sound?" I asked. Intentionally or unintentionally, his course had positioned itself to successfully capture an obviously large niche of golfers. Its reputation enticed many more than it scared. Yet he was complaining.

Many golf courses never manage to become so well ingrained in golfers' minds. This course became synonymous with upscale (i.e., as close as "local Joe and Joanne" would get to a tour-level course at an affordable price).

They needed to advertise only as a reminder; tournaments flocked to it; and the good tee times were always booked.

Just like a normal person would rather everyone liked him/her, they wanted every golfer on their course. But as we marketers have seen time and again, it is almost impossible to succeed at pleasing everyone. This course had become successful by focusing on "challenge" and "championship" status. That eliminated a lot of golfers.

The best thing they could do would be to forget those golfers who wouldn't come because they thought the course was too tough.

They are simply not this course's market. One of two things will happen with these golfers: Either they will golf the course and realize it isn't so bad, or they will never come out at all. In either case, it may not be worth pursuing.

Much time, effort, and money were expended to develop an image. That image is ingrained in the market's collective psyche, and a huge niche of golfers flock to the course because they perceive it will satisfy their needs.

The cost and damage that could be done undoing this image could be disastrous. What if Cadillac decided to tell everyone, "A

Cadillac is for everyone; you really haven't arrived just because you drive a Caddy."

As we were leaving, my friend asked me to tell him what I seriously thought.

"Double the message intensity. Make every golfer think they've survived an ascent of Everest and have accomplished something. They'll feel like heroes and keep coming back. Forget the rest, it doesn't matter what you tell them now, they're going to feel as wrong as a three-armed sweater. As long as the round count keeps going up, ride with it.

"Take your pro's advice: Keep your eye on the ball." Really, we should all have these problems.

Replaceable, free-turning "knob" handles.

Patented agitator design rotates ball for complete cleaning. Hands and gloves stay dry.

Large opening in spiral agitator accommodates new, oversized balls.

Easily accessible, tamper-resistant drain plug.

Only two non-seizing, stainless steel set-screws for easy access.

Long-wearing brush completely surrounds ball in one-piece, flow-thru housing.

Consistently flawless, cast aluminum body never leaks.

New design prevents towel clips from damaging hand finished baked enamel paint.



Compare the Rest. You're Looking at the Best.

Wherever golf is played, Superintendents and golfers alike recognize the quality, pride and craftsmanship that goes into every Par Aide ball washer.

So it's no surprise that more than a few imitators have come and gone over the years.

But, despite all of their "me too" claims, absolutely no one has yet equaled the unique advantages and rugged

durability of Par Aide's cast aluminum original.

It was true in 1955. It's still true today. When it comes to ball washers, and the name of the company that stands behind them, Par Aide has no peers.

Ask your Dealer today about the best long-term investment value in golf course accessories — ask to see all of Par Aide's "Classic" ball washers.



CIRCLE #149



GOLF COURSE



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It's called **Golf Course Expo**, the premier national expo and conference for daily fee, municipal, semi-private and resort courses—and it's sponsored by *Golf Course News*.

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- Practical solutions for superintendents, owners, managers and developers of public access courses
- A two-day educational program with three-tracks featuring industry leaders speaking on agronomy, management, and development

Plan now to be there

**Mark your calendar NOW and send for more information—
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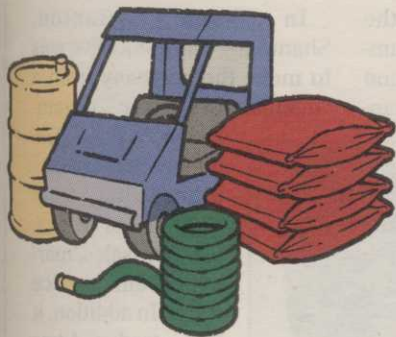
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or fax to 207-846-0657

BRIEFS



CHANGES AT DOWELANCO

INDIANAPOLIS — DowElanco Specialty Products has announced several personnel changes within its Urban Pest Management Division. Dave Morris, previously human resources manager, has accepted the position as marketing manager for both the Turf and Ornamental and Technical Products Division. Morris replaces John Madia who recently accepted the position of global business development manager for the company's Global Products Division.

HELDROP TO DIRECT KAWASAKI SALES

GRAND RAPIDS, Mich. — Kawasaki Motors Corp., U.S.A. has announced the promotion of John Helderop to national sales manager of the Engine Division. Helderop, 39, was previously operations manager. Said Henry Ono, vice president, of the Engine Division. "This newly created position will allow him to utilize his talents to better direct the sales efforts of the company, while maintaining his responsibilities for planning and marketing."



John Helderop

PRIMO OKAYED IN NEW YORK

The New York Department of Environmental Conservation has registered Primo, a turfgrass growth management tool, for use on turf in the state of New York. Primo was labeled for use throughout the rest of the nation in February 1993, after two years of testing by turf managers under an Experimental Use Permit (EUP). Manufactured by Ciba Turf & Ornamental Products, Primo reduces turf growth and clippings by approximately 50 percent for four weeks during prime growing periods.

SHOUP JOINS BUCKNER IN EAST

FRESNO, Calif. — Buckner, Inc. has appointed David H. Shoup as Eastern regional sales manager. Shoup's responsibilities will include market development and sales supervision in the Eastern U.S. and Canada for the manufacturer's line of irrigation hardware and control systems. Shoup recently came from a manufacturer's representative agency in electronic security and communications sales and system design. For the past decade, he has been a specialist in two-way radio and closed-circuit television systems, representing Buckner's sister company, Pelco.



David Shoup

GCSAA continues new tack, joins RISE as associate member

By HAL PHILLIPS

LAWRENCE, Kan. — After three years of keeping its distance, the Golf Course Superintendents Association of America (GCSAA) has joined the specialty chemical trade organization RISE (Responsible Industry for a Sound Environment) as an associate member.

Under the regime of former Executive Director John Schilling, GCSAA had made a point of refusing membership in several allied organizations, including RISE, which was formed in 1991 by manufacturers, formulators and distributors of specialty chemical products. But GCSAA's about-face reaffirms its continued commitment to mend industry fences under the leadership of new Executive Director and Chief Executive Officer, Steve Mona.

"We get the same support from everyone else. Why shouldn't we reciprocate?" said Mona, who joined GCSAA in late 1993. "One of our mandates here was to restore the relationships with our allied organizations: RISE, the USGA, PGA, etc. This really goes to the heart of what we're trying to accomplish and become as an organization."

"When you look at RISE, you're looking at some of our larger advertisers and exhibitors. We're involved with environmental issues and so are they. This is the logical thing to do, and our board thought it was the right thing to do."

Mona explained that he will meet with RISE Executive Director Allen James sometime in July to "see

Continued on page 64



We get the same support from everyone else. Why shouldn't we reciprocate?"

— Steve Mona,
GCSAA
Executive
Director & CEO



ANALYSIS

Allen resigns, GCSAA undecided

By HAL PHILLIPS

SINGAPORE — If the future of Golf Asia depends on the contentment of U.S. exhibitors, the stability of show manager Connex Private Ltd., and the educational role of the Golf Course Superintendents Association of America (GCSAA), the fate of Asia-Pacific's largest trade show is murky, to say the least.

Minutes after Golf Asia '94 concluded here at the International Merchandise Mart, Connex Vice President Stephen Allen — who has organized the event for three of its four years — submitted his resignation.

Further, GCSAA — which conducted the education session prior to and during the trade show — has not decided whether it will return in 1995. According to Executive Director and Chief Executive Officer Steve Mona, the GCSAA board of directors will meet in May to decide a plan of action — if any — for the Asia-Pacific region.

On the trade show floor, there were actually two exhibitions in one. Half the hall was rented to "Industry" firms lured East by GCSAA. The other half was occupied by "Commercial" exhibits sold by Connex, the firm which has managed the trade show since its inception in 1991.

This was the compromise worked out between GCSAA and

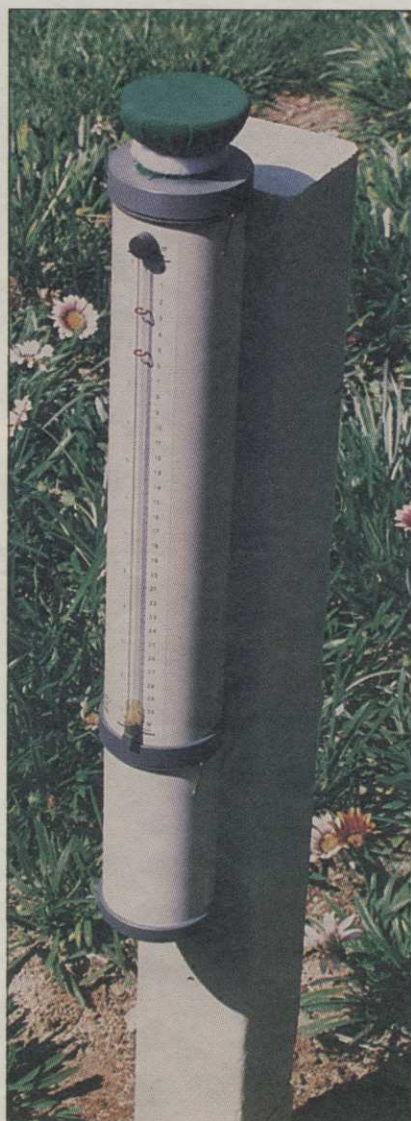
Continued on page 63



NEW PRODUCT OF THE MONTH

The ETgage, a modified atmometer from C&M Meteorological Supply, is a tool for irrigation management and an alternative to the complete weather center. The Model A (above) is the electronic version of the visually read Model E (right). The C&M ETgage evaporates rain water through a clay-ceramic plate covered by a green fabric, which creates a diffusion barrier, controlling the evaporation rate, similar to leaf resistance in plants.

The ETgage is designed to be more accurate than evaporation pans and less complicated than complete weather stations. For more information, contact C&M Meteorological Supply, P.O. Box 5723, Riverside, Calif., 92517. For more new products, see page 65.



ISK Biotech now the American division of ISK Biosciences Inc.

OSAKA, JAPAN — Ishihara Sangyo Kaisha (ISK) plans to strengthen its position in the world agricultural chemical industry by unifying the ISK agrochemical businesses under the global identity of ISK Biosciences, effective immediately.

In November 1990, Ishihara acquired ISK Biotech Corp. of the U.S.A. as a strategic step to increase its existing presence in the agrochemical industry. To date the two organizations have operated separately. Now they will function as a single entity with common corporate objectives and a unity of purpose. All plans and directions will be unified and the functions of development, manufacturing, sales and distribution will be coordinated more efficiently on a global basis.

This move is intended to improve the ability of the corporation to develop technologies and services while strengthening market focus and improving resource productivity.

The newly unified ISK Biosciences, with headquarters here, is composed of three divisions: Asia-Pacific, Europe and Africa, and the Americas. To manage the new organization, the ISK Biosciences Executive Committee has been formed at the ISK corporate office here to develop objectives, set policy, and provide strategic direction. The three divisions have the primary responsibility to manage the business strate-

Continued on page 63

Pryseski: Seed Research Super of the Year

Kevin Pryseski of Cattail Creek Country Club in Glenwood, Md., has been awarded the Seed Research of Oregon 1993 "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.

Pryseski has been with Cattail Creek from the start of construction, working closely with architect Willard Byrd and Sam Kessel of Lea's Green Meadows.

The 6,624 yard Cattail Creek has Providence greens, Dominant creeping bentgrass blend fairways, Champion perennial ryegrass blend roughs, and Crusader turfgrass mixture far roughs.

...
The Seed Research of Oregon **Advisory Committee** met again this year during the 1994 GCSAA Show. Seed Research took the opportunity to introduce its newest members: Dennis Pellrene of the Capilano Golf Club in West Vancouver, British Columbia; Joe Volk of Chagrin Valley Country Club in Chagrin Falls, Ohio; and John Anderson of the Oregon Golf Club in West Linn, Ore.

...
Seed Research of Oregon is proud to announce their **"Best 18 Green in North America" contest**. The contest seeks to identify and honor the golf course superintendent with the best Providence, Dominant or SR 1020 creeping bentgrass greens.

Seed Research will appoint a team of university and industry professional to judge the greens on the basis of color, density, texture, greens speed and overall health. Consideration will also be given to the age of the greens, the amount of play, maintenance budget and the region's climatic extremes.

The winning golf course superintendent and distributor's sales representative will win an all expenses paid trip to the 1997 International Turfgrass Conference in Sydney, Australia.

...
Seed Research has also named **Wyncote Country Club** of Oxford, Pa., its "Golf Course of the Year" for 1993. For their hard work and dedication, architect Brian Ault — principle member of Ault, Clark and Associates — and golf course superintendent, Ken Pepple worked closely with the Sweeney Seed Company, of King of Prussia, Pa.

Wyncote — whose playing surfaces are entirely planted with Seed Research varieties — is a small slice of Scotland, set among the rolling hills of the Pennsylvania's Amish Country. Wyncote was awarded third place in *Golf Digest's* Best New Courses of 1993.

Seed Research has awarded its 1993 "Marketing Excellence" award to **Automatic Rain** in Menlo Park.

Through its hard work and imaginative marketing program, Automatic Rain has shown a significant increase in their grass seed sales in 1993.

Mike Ravel, sales manager for Automatic Rain, accepted the award in January at the 1994 Golf Course Superintendents Association of America (GCSAA) International Golf Course Conference

and Show in Dallas.

...
Dr. A. J. Powell, Jr. — Extension Turfgrass Management specialist with the Department of Agronomy, University of Kentucky, Lexington — has been awarded the Seed Research "Researcher of the Year" award.

Powell was recognized for his many years of excellent turf research serving both turf industries and the consumer, especially in this transitional zone environment.

Parks bolsters new Bunton marketing effort

Rob Parks has joined the staff of the Bunton Co., assuming the newly created position of associate marketing manager.

Parks will report directly to the vice president of sales and marketing, Gary Champeny.

Prior to accepting this position, Parks was managing director for Roseman Manufacturing Co.

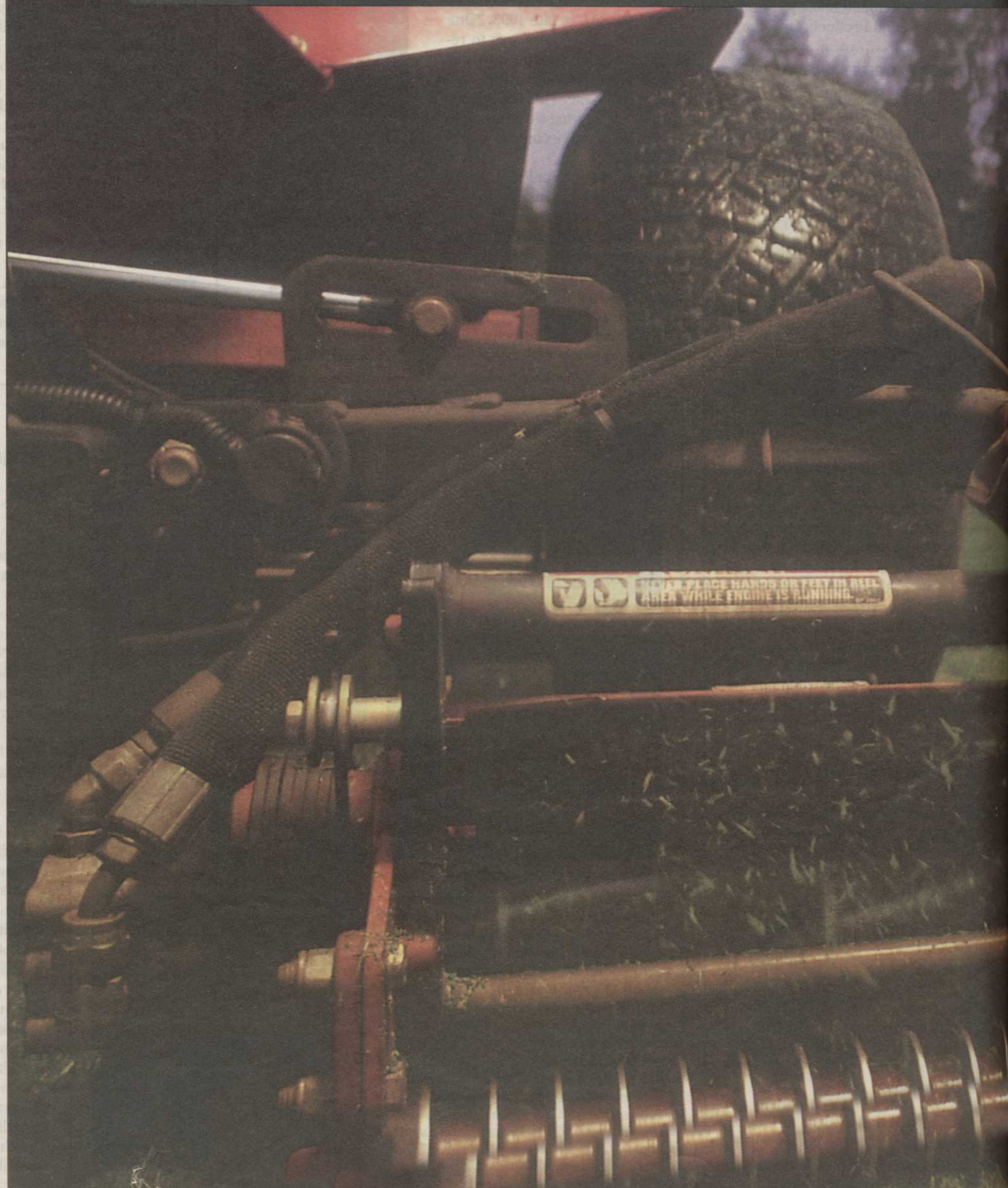
In joining Bunton, Champeny's key objective was to move the company from a "manufacture-driven" organization, to one of being "market-driven."

Since that time Bunton has reorganized its sales, marketing and service staffs. In addition, it has introduced two new commercial rotary mowers.



Rob Parks

WHAT THIS MACHINERY DOES TO YOUR GRASS, PRIMO



Scotts names new nat'l accounts manager

MARYSVILLE, Ohio — David J. Oberle of San Diego, Calif., has been promoted to the position of national accounts manager, Golf Course Management Companies of The Scotts Company Professional Business Group (PBG).

Oberle joined The Scotts Company in 1987 as a technical representative. His success in providing technical sales and service to clients throughout the Southern California area

earned him a promotion first to senior technical representative, then to executive technical representative.

Oberle also has extensive golf course experience, having worked with the Somerset CC in Mendota Heights, Minn.; the Pine Hills CC in Sheboygan, Wis., and the Congressional CC in Bethesda, Md. A commercial liaison for the San Diego Superintendents Association.

Sandoz surveys pesticide applicators

Continued from page 1

always, sometimes, not usually or never use safer pest control products when available?

Seventy percent of superintendents answered "always," compared to 54 percent for lawn care applicators (LCA) and 48 percent for farmers. Sixty-five percent of superintendents indicated they "always" wear protective clothing when applying pesticides, as opposed to 50 percent of the surveyed LCAs and 17 percent of the farmers.

"The survey showed that golf

Fifty-three percent of the superintendents surveyed said they didn't receive any complaints from the public, while 15 percent cited problems pertaining to odor.

course superintendents have at least an equal concern to those of the agricultural and lawn care communities," said Jeff Cook, Sandoz's business manager for

Barricade. "Maybe more than anything, I would have expected the golf course industry to respond in a more cavalier way — and the reason I say that is, we know the superintendents are under a lot of pressure to do a better job with less money. But there is clearly a high level of professional concern."

Question: *What is the most common complaint you hear from the public, your neighbors or customers relating to the use of pesticide products?*

Fifty-three percent of the superintendents surveyed said they didn't receive any complaints, while 15 percent cited problems pertaining to odor. Nine percent of the golf course managers reported fielding complaints about worker safety, and 5 percent heard complaints regarding environmental safety.

More than 50 percent of all surveyed groups indicated they are dealing with more public concern over pest control and the environment, compared to five years ago. Farmers were the highest, at 80 percent.

Yet about half of the respondents in all groups said their personal level of concern associated with pest control has also increased over the past five years.

According to Cook, these are disturbing trends the chemical industry cannot afford to ignore.

"Honestly, I think some people in the industry — competitors included — get nervous about surveys like these," said Cook. "Why? I'm not sure. In the agricultural community, it's more exposed. Every time an issue is raised, it's discussed publicly."

"In the golf course business, it seems to hit closer to home. Manufacturers don't want to be quite as open about the issues at hand. We thought long and hard about doing the study [and including superintendents], but we thought it was the right thing to do."

"These issues are not going to go away."

According to Max Larsen, executive vice president for Gallup in Lincoln, Neb.: "Respondents said that manufacturers and the government have primary responsibility to educate the public and fix safety and environmental problems."

"But they see themselves as partners in the process."

Question: *Do people in your industry always, sometimes, not usually or never follow labels closely?*

A full 93 percent of superintendents polls answered "always," the highest figure for any of the seven groups. Farmers were lowest at 68 percent.

Cook said it cost Sandoz approximately \$100,000 to conduct the poll. A minimum of 100 superintendents were among the 2,050 pesticide applicators contacted — via the telephone — by the Gallup Organization. For more information on the survey and information about obtaining a copy, call Sandoz at 708-699-1616.

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CIRCLE #151

LAHRCO ACQUIRES RIGHTS
IRRITURF, IRRISCAPE

CHARLESTON, S.C. — Lahrco has acquired the exclusive U.S. marketing rights to Irriturf and Irriscape water quality systems and has established its east coast offices here. Irriturf — designed for large scale irrigation purposes, more specifically golf course irrigation — is a catalytic water conditioner composed of selected metals and cast together in a specially configured core. The process reduces the content of chloride, bicarbonate, boron, sodium, and total dissolved solids.

Weinstein & Hategan join Florida Underground Tank

FT. LAUDERDALE, Fla. — Scott Weinstein has been named director of business development in charge of all marketing functions and Marius Hategan has been appointed general superintendent of Florida Underground Petroleum Tank Contractors, Inc.

Weinstein, who brings to Florida Underground an extensive and varied background in sales and account development, is responsible for maintaining and developing new and existing business relationships for the company. Prior to joining Florida underground, HE was a commercial account manager for Enterprise Leasing in Mi-

ami, where he was responsible for the marketing and development of businesses with sales in excess of \$1 million.

Hategan, a civil engineer, is responsible for the implementation and supervision of environmental system installation and groundwater extraction/hydrocarbon contaminated soil treatment systems. He also is involved with the planning, execution and supervision of environmental remediation projects. Hategan comes to Florida Underground with an extensive background in environmental engineering, with a concentration in environmental remedial actions systems.

Lake to handle
Northeast for
Medalist America

ALBANY, Ore. — Medalist America has named Bob Lake the new turf specialist for the New England market. He will be responsible for providing advice and recommendations to turf professionals in the golf course market, as well as other disciplines.

Lake has been active in the New England turf market since 1960, having served as superintendent at three area golf courses. He has also been a Class A PGA golf professional for 23 years.

In other Medalist news, Scott Debolt has been named turf specialist serving distributors in the five-state area of Alabama, Mississippi, Arkansas, Tennessee and the Florida Panhandle.

Debolt's experience includes a four-year stint with TIECO of Nashville, Tenn., where he handled outside sales of golf course equipment, seed fertilizer, chemicals and irrigation systems.

Reinecker returns
to hydroseeding

Neil Reinecker, formerly vice president of Reinco, Inc., has resigned after 15 years at the manufacturing company to resume his pursuits with Erosion Control Technologies, Inc. The new company was founded by Reinecker in 1991 with the introduction of The Hydro Seed Cost Estimator, an IBM-compatible software package designed for the hydro-seeding professional who prefers to keep hydroseeding job cost estimates on a PC.

Erosion Control Tech will continue to market and support the software and will expand its focus to include sales of new and used hydroseeding and straw-blowing machinery, fiber mulch, and the company's new Tackifier.

The company is headquartered in Branchburg, N.J., yet is able to service the entire country with a small-but-effective network of associates who, like Erosion Control Tech, specialize in hydroseeding and mulching equipment, and supplies.

For further information please call Neil Reinecker at 1-800-245-0551.

ALLSUP JOINS ENVIRONMENTAL
WATERWAY MANAGEMENT

ORLANDO, Fla. — Martin Allsup, who has more than 13 years of experience with aquatic plant control and wetland mitigation projects, has been named the Orlando branch manager of Environmental Waterway Management, Inc., a subsidiary of AquaTerra, Inc. Allsup came to Environmental Waterway from Environmental Services, Inc. in Jacksonville, where he had been a project scientist supervising lake management operations.

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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.

Questions aplenty regarding Golf Asia '95

Continued from page 59

Connex, who held separate shows last year.

The results — according to non-playing-side, "Industry" exhibitors — were mixed. The general consensus decried the lack of traffic, though those in attendance seemed qualified and ready to buy.

"We were happy with the people who stopped at the booth," said Carla Holmquist, who represents The Toro Co. in Asia-Pacific. "There were a lot of good customers looking at actual packages. As far as the number of people, it wasn't a steady stream. Traffic was pretty light.

According to Corbin Reilly of O.M. Scott, which exhibited at both shows in 1993: "The traffic was a little bit less than in prior years, but better than last year. The first morning was slow and the last day was slow. But the other two days were quite busy.

"This is our fourth year at Golf Asia. It continues to be an integral part of our Asia-Pacific strategy."

Added Holmquist: "It was an excellent show for us. There was a lot of interest from China, Indonesia and Vietnam. We even got some interest from India, which surprised me... So overall, we were pleased with the show."

Will you be back next year? "Yes," she said.

Will GCSAA? That's not clear.

The past six months have seen the superintendents' association pare its overseas commitments considerably: Closing its Singapore office, discontinuing its Spanish- and Japanese-language publications, and reducing the size of its education program here at Golf Asia '94.

"We had a one-year agreement that went through this year's Golf Asia show," said Mona. "If we do go forward, we'll need a new agreement... We have planned a meeting of the board for late May to discuss our role in Asia... [GCSAA President] Joe Baidy, Donn Bretthauer and I met with many superintendent organizations and U.S. expatriates during our stay in Singapore. We have to make some decisions on information sharing in that part of the world.

"But there's a larger issue here — what we're going to do internationally. When we talk internationally, we automatically think of Asia. But there's more to it than that. And you have to balance that with domestic concerns."

Reilly said the presence of GCSAA is not all-important: "We were there before GCSAA, and we'll be there if they're not," he said.

On the subject of Golf Asia's education program, Mona noted

the GCSAA-conducted sessions were "sold out. The responses we've received from the surveys were very positive," he added. "The acid test for this type of thing is the question: 'Would you attend next year?'

"All but one said 'Yes.'"

Yet, the GCSAA did cut back on the number of sessions and it didn't go unnoticed, said Reilly.

"The feedback we're getting from superintendents was the education sessions were a little

bare-boned," he said.

According to Holmquist, the trade show's less-than robust attendance should be considered when future schedules are drawn up.

"As trade people," she said, "we would rather they didn't hold sessions during the trade show. It's okay during the U.S. show because attendance is so massive, but you can't get away with it in Asia. The floor was dead during the sessions."

ISK Biosciences

Continued from page 59

gically with an outward focus toward customer needs.

The office in Mentor, Ohio, which has been the ISK Biotech head office, will continue to be the headquarters of the Americas division.

In addition to being responsible for basic policy matters relating to business development and strategic planning for ISK's global agricultural chemical business, the ISK

Biosciences headquarters will also continue to be the headquarters of the Asia-Pacific division. ISK has also established an ISK European headquarters in Brussels to manage the business activities of all ISK group agricultural chemicals and industrial chemicals products in Europe and Africa. With support from the Americas division, the office in Orpington, Kent, U.K. will continue to be the headquarters for the agricultural chemical business of Europe and Africa.

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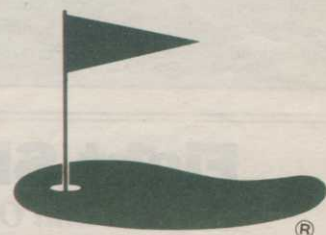
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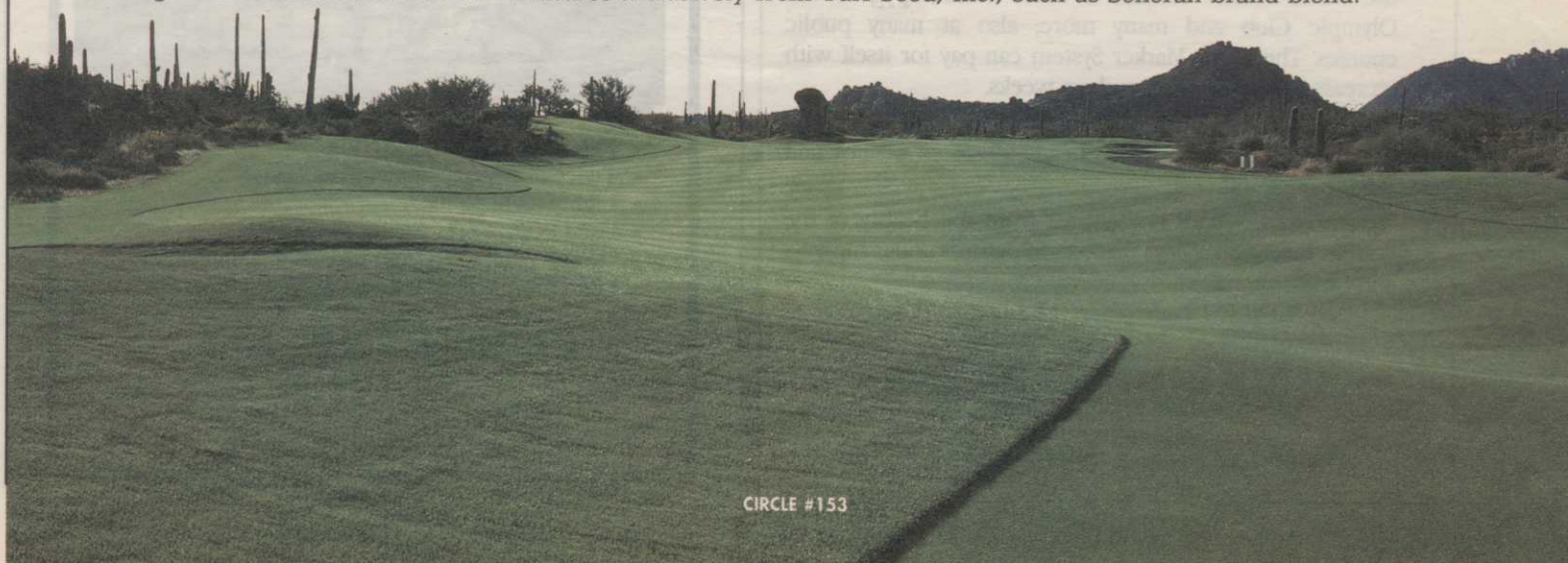
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Club Car names new CFO; reports first-quarter earnings

AUGUSTA, Ga. — Eric L. Tyra has been named vice president of finance and chief financial officer for Club Car, Inc.

Tyra comes to Club Car with more than 22 years of diverse accounting and financial experience, most recently at First Financial Management Corp. in Atlanta, where he served as vice president. He was previously a partner at Deloitte & Touche, an international accounting and consulting firm.

Tyra has succeeded Charles Goodwin, who retired recently after 15 years with Club Car.

Club Car has reported net sales of \$54.5 million and \$77.2 million for the three- and six-month periods ending March 27 — up 11.1 percent and 14.8 percent over prior year revenues for the same periods, according to Tyra.

Operating income for the second quarter was \$8.6 million, up \$800,000, or 10.9 percent over operating income of \$7.8 million

for the second quarter of 1993, Tyra reported. Operating income for the six months was \$10.5 million, up \$1.4 million, or 15.1 percent over operating income of \$9.2 million for the same period of fiscal 1993.



Eric L. Tyra

Net income for the three months ended March 27, was \$4.5 million, or \$.48 per share; compared to net income of \$2.7 million, or \$.45 per share for the prior year, Tyra reported. For the six-month period ended in March, income before an extraordinary charge due to the early retirement of debt was \$4.4 million, or \$.49 per share; compared to net income of \$1.4 million, or \$.24 per share — an increase of 208.3 percent — for the first six months of fiscal 1993.

Including the extraordinary charge related to the early debt redemption, Club Car posted a reported net loss for the six-month period ended March 27 of \$.5 million, or \$.06 per share.



Tempest President and CEO Dexter Coffman, flanked by Charles Willard (right) and William Vaughn.

Tempest appoints new sales manager

FRESNO Calif. — Tempest has appointed William L. Vaughn national sales and marketing manager, according to President and Chief Executive Officer Dexter Coffman.

In addition, Coffman announced that Vice President Charles Willard will take on the responsibility of regional sales manager for the Eastern United States. Vaughn comes

to Tempest with an extensive background in sales, having been Northwest district sales manager for Casio Inc. and Far West district sales manager for Sharp Electronics Corp. He was most recently vice president for PVA Inc.

He will work out of corporate headquarters here. Willard's area will encompass East of the Mississippi River.

Aquatrols names new marketing head

CHERRY HILL, N.J. — Ronald R. Dodson has joined Aquatrols as marketing manager, according to Aquatrols President Tracy Moore, who announced the move.

Dodson will work alongside Andy Moore, vice president of sales and marketing.

Dodson will also work with Aquatrols reps in the field to co-

ordinate the company's marketing function with the needs of the golf course industry.

Dodson graduated with a bachelor of science degree in biochemistry from California State Polytechnic University. He worked for Shell Chemical and Sandoz Crop Protection before joining Aquatrols.



Ron Dodson

Milliken names Blazon drawing winners

Milliken Chemical congratulates the winners of the drawing for a year's supply of Blazon, and wishes to thank everyone who visited the Blazon booth in Dallas. The winners of the Blazon drawing are:

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| Steve Graves | Independence Country Club | Independence, Kan. |
| Mark Henson | Ottumwa Municipal Golf Course | Ottumwa, Iowa |
| George Kervern | East Pointe Country Club | Boynton Beach, Fla. |
| Jon Maddern | Elk Ridge Golf Course | Atlanta, Mich. |
| Steve Nash | International T & CC | Fairfax, Va. |
| Walter Owsiany | Audubon Country Club | Naples, Fla. |
| Craig Schneider | River Oaks Golf Club | Grand Island, N.Y. |
| Steve Schran | Hermitage Country Club | Manakin, Va. |
| Ken Smith | Highland Springs Country Club | Springfield, Mo. |
| Ken Stirland | Murray "Parkway" | Murray, Utah |

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GCSAA-RISE

Continued from page 59

how we can benefit each other more effectively."

Though the agreement on associate membership was reached in early April, James has already proclaimed his enthusiasm regarding the new partnership.

"I think it's wonderful," said James from RISE's Washington, D.C., headquarters. "We're already off to a good start with GCSAA. There seems to be a desire on their part to be supportive of industry activities and we plan to take advantage of their enthusiasm."

Mona noted the two organizations had established a better working relationship prior to the April commitment.

"When we were about to release the mortality study during our exhibition and show in Dallas, we called in Allen James a few days beforehand and talked about the study's results," said Mona. "We talked about what was going to be said. It gave RISE and its members a heads-up. It was a way for us to say: 'You and your PR divisions are going to get calls about this.' We wanted them to be aware."

"So I think this process really began back in January."

James explained that George Renault, a GCSAA board member and head superintendent at The Burning Tree Club in Bethesda, Md., has already been assigned to the RISE Government Issues Committee.

"GCSAA has a particular interest in that area because golf courses are coming under increased legislative pressure," said James. "Golf course superintendents, for example, are just as concerned about pre-emption as we are... We look forward to participating on a number of issues with them, as they come up, on a federal and state level."

The passing of state pre-emption laws — perhaps RISE's number-one issue — would make it impossible for individual municipalities to ban chemicals that have been approved by the federal Environmental Protection Agency.

There are now 40 states with some form of pre-emption statute.

Two more states have passed pre-emption laws during 1994: Idaho and Iowa. In addition, legislation aimed at rescinding Illinois' existing pre-emption statute was defeated, James reported.

Miles introduces Merit insectide

The U.S. Environmental Protection Agency has approved registration of Merit insecticide on turf and ornamentals. The chemical compound, containing the new active ingredient imidacloprid, is manufactured and marketed by Miles Inc. Specialty Products.

Merit is designed to control insects by ingestion and contact. Its novel mode of action involves post-synaptic blockage of the nicotinic acetylcholine receptor sites of the insect nerve. The insect's nervous system is disrupted, resulting in death. Because of its low toxicity to mammals, birds and fish, Merit poses low risk to applicators and the environment. In turf, Merit controls white grub larvae, billbugs and annual bluegrass weevils.

Merit 75 WSP's use rate of 0.3 pound active ingredient per acre is substantially lower than the two to eight pounds active ingredient per acre for currently registered soil insecticides used on turf. For more information, contact your local Miles field representative or call Miles toll-free at 1-800-842-8020.

CIRCLE #304

Four looks for Otterbine Concept

Constructed of durable thermal plastics and stainless steel, Otterbine's Concept series aerators feature four different interchangeable spray patterns: Sunburst, Phoenix, (two-tiered spray), Rocket (geyser-like spray), and High Volume (powerful aeration unit).

While designed to help to keep ponds and waterways naturally clear of foul odors, aquatic weeds, and algae, Otterbine surface spray aerators offer the additional benefit of a beautiful water feature, enhanced by optional rock covers and lighting packages. Otterbine is the only aerator manufacturer to have all of its aeration systems (unit, power control system, and cable) safety tested and approved as an entire package by ETL.

For more information, contact Otterbine at 3840 Main Road E., Emmaus, PA, 18049; or call 215-965-6990.

CIRCLE #301

Talstar available in Ga.

FMC Corp. has introduced Talstar Insecticide, labeled for use on turfgrass in Georgia. Statistics show mole crickets are perhaps the most widespread problem insect in the Southern region. At the same time, imported fire ants consistently cause other problems, and pose a real threat to golfers and groundskeepers. With the special 24C label in Georgia, Talstar Insecticide provides an effective and affordable method for combating these major insect problems. For more information, contact FMC toll-free at: 1-800-528-8873.

CIRCLE #302

Shallow-water aeration from RainJet

RainJet Fountains has announced the new 1/2 horsepower FA Series Aerators for water only 18 inches deep. Available in two models, each with its own pattern, the new floating aerators are designed for small lakes and ponds.

Drawing water from the water's depths, they limit thermal stratification by moving the colder water into warmer layers, thereby inhibiting algae growth. The spray and wave

action created puts oxygen back into the water to fight algae sludge and weed build-up. All RainJet aerators are environmentally safe. They do not require oil for lubrication so your lake or pond water remains oil-free, and grass and plants are safe. For a RainJet dealer near you, call toll free 1-800-465-3880, or write Rain Jet Fountain Division, 27671 La Paz Road, Laguna Niguel, CA 92656.

CIRCLE #307

Latshaw hosts new training videos

A new hands-on golf course superintendent's video-based training series, designed to enhance staff training and managerial skills, is now available from Epic of Wisconsin.

The tapes are presented by Paul Latshaw, recognized as an innovative superintendent for more than 30 years and successful host to three major U.S. tournaments. EPIC is a successful video production company with an expertise in landscape, equipment and turf-related videos.

The first two tapes, "Creating

the Knowledgeable Operator," and "Greens Care Orientation and Tips," available immediately, will address basic equipment and mowing routines that every maintenance staff member should know. Training tapes will include written support materials and basic testing or performance assessment guidelines.

Superintendents interested in a free preview tape, can write or call EPIC at 2334 Stonebridge Circle, West Bend, WI 53095; or call 1-800-938-4330.

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12-15 — *Donald Ross Society Annual Meeting in Pinehurst, N.C.* Contact 919-295-0906.

18 — *Limited Category Pesticide Training Seminar in Cocoa, Fla.* Contact Sally at 407-633-1702.

18 — *North Carolina Turf & Landscape Research Field Day in Raleigh.* Contact 919-266-1777.

25 — *Kansas Golf Association Green Conference in Manhattan.* Contact 913-842-4833.

June

4 — *Modern Arboriculture Workshop on A Systems Approach to Practical Tree Care in Nebraska City, Neb.* Contact the National Arbor Day Foundation at 402-474-5655.

8 — *Lofts Field Day in Wilmington, Ohio.* Contact David Goodwin at 800-328-1127.

10 — *Lofts Field Day in Beltsville, Md.* Contact John Patton at 800-732-3322.

July

4-8 — *World Scientific Congress of Golf in St. Andrews, Scotland.* Contact *World Scientific Congress of Golf in the UK* at 0334-75560.

31-Aug. 2 — *Georgia GCSA Summer Conference at Calaway Gardens Resort.* Contact Karen White at 706-769-4076.

August

16 — *Wisconsin Turfgrass Field Day in Madison.* Contact Dr. Frank Rossi at 608-262-1490.

October

29-Nov. 2 — *Georgia GCSA Annual Meeting in Savannah.* Contact Karen White at 706-769-4076.

November

6-9 — *15th Annual International Irrigation Exposition and Technical Conference in Atlanta.* Contact 703-573-3551.

8-11 — *Turf & Grounds Exposition in Rochester, N.Y.* Contact 800-873-TURF.

18-20 — *National Golf Foundation Golf Summit '94 in Phoenix.* Contact 407-744-6006.

10-12 — *Golf Course Expo in Orlando, Fla.* Contact the Golf Course News Conference Group at 207-846-0600.

13-16 — *28th Annual Carolinas GCSA Conference and Show in Myrtle Beach, S.C.* Contact 800-476-GCSA.

29-Dec. 1 — *New Jersey Turfgrass Association Expo in Atlantic City.* Contact 908-821-7134.

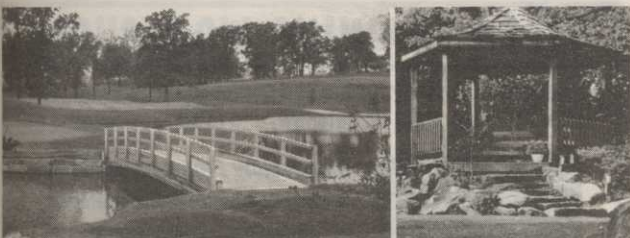
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3-5 — *Wisconsin Turfgrass & Green Industry EXPO in Madison.* Contact 608-262-1490.

11-13 — *North Carolina Turfgrass Conference and Show in Charlotte.* Contact 910-695-1333.

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Phillips comment

Continued from page 14

the business being done in the Asia-Pacific region. Japan's sagging economy has not affected development in the region, as backing aplenty has emerged from Taiwan, Singapore, Thailand and Hong Kong. Everyone seems determined to build a real-estate-based golf complex in the People's Republic of China, while Malaysia and Indonesia remain the hottest overall development markets.

Last year, Vietnam was the new frontier. But after 12 months of feverish development activity, it's almost *passee*. India is the new hot market, with dozens of projects in planning around the southern coastal cities of Bombay, Goa, Bangalore and Madras.

Three thoughts:

- More than the U.S. market, this region really needs a good exhibition and conference to help manage the staggering growth.

- For American manufacturers who can establish distribution networks quickly, a killing can still be made here.

- So many courses went up so quickly — and shoddily — from 1988 to 1992, the renovation market will boom before long.

Asia-Pacific market short of managers

By PETER BLAIS

SINGAPORE — Club managers are looking forward to the second two-week hospitality management program conducted jointly by the National University of Singapore and America's Cornell University School of Hotel Administration.

This year's program will run from June 5-17 at the Kent Ridge Campus in Singapore. Plans are to eventually expand the program to two, 14-day sessions that would run back-to-back over a one-month period.

Last year's 14-day session drew 45 students from throughout Asia. While not geared specifically to golf clubs, the program attracted many students who worked at country clubs or resorts with golf operations, according to Cornell Professor Leo Renaghan, one of the program organizers.

The Executive Program in Hospitality Management could help club managers better manage costs and develop ways to attract new customers, Renaghan said. All faculty have taught senior level executives.

"As the leading hospitality school in the world, we want to be where the action is," Renaghan said. "We believe that will be Asia over the next 10 to 15 years."

As is the case for course superintendents, professional training opportunities for golf club managers is also sorely lacking in the Asia-Pacific region, according to Kathi Driggs, spokeswoman for the 5,000-member Club Managers Association of America.

CMAA has worked with Cornell to develop club management programs worldwide.

"Finding qualified people to manage golf clubs in Asia is a real problem," Driggs said. "Asian managers are generally very thankful for all the information they can get."

"The problem in Asia is that there are people with hospitality management knowledge, but they don't know how to apply it to that market," Renaghan said.

For more information contact Miss Ramona Zuzarte, Faculty of Business Administration, National University of Singapore, 10 Kent Ridge Crescent, Singapore 0511, Republic of Singapore; telephone 7723143.

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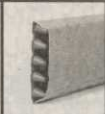
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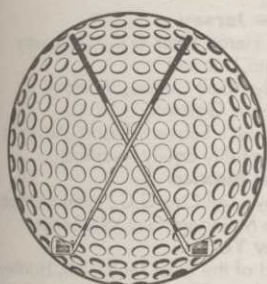
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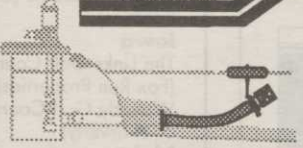


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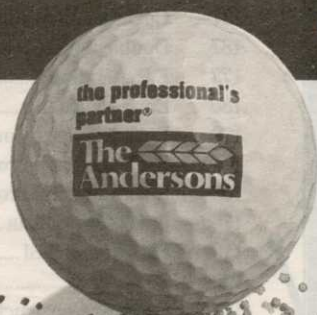
Marriott's Golf Club at Fossil Creek, Fort Worth (Woodbine/Marriott Golf)
Painted Dunes, El Paso (Evergreen Alliance)
Rio Colorado G.C., Bay City (Golf Services Group)
Weeks Park, Wichita Falls (Evergreen Alliance Golf, Ltd.)

Washington D.C.

East Potomac Park Golf Course, Washington (Dept. Interior, National Park Service)

Wisconsin

Nemadji Golf Course, Superior (City of Superior)
University Ridge golf Course, Verona (Resort Management of America)
Willow Run Golf Club, Pewaukee (Lee R. Merkel)



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AS I



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Pro-Ap's needle valve meters just the right amount of Hydro-Wet into the water flow.

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Convenient, cost-effective Pro-Ap delivers consistent, measured quantities of Hydro-Wet RTA—treats 1,000 sq. ft. in less than one minute.

Simple Test Identifies Hydrophobic Soils.

It is nearly impossible to visually identify hydrophobic soils, but there are several simple tests for determining their presence. The following was included in a 1989 article by Keith Karnok and Kevin Tucker of the University of Georgia.

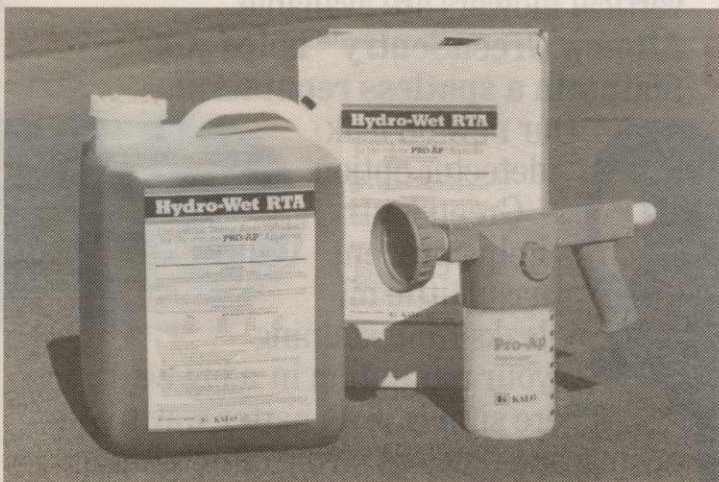
"This test . . . simply involves the placement of small drops of water along the length of intact soil cores at

1/2 inch intervals. The length of time (seconds required for the droplet to penetrate into the core) is recorded. Penetration times greater than 10 to 15 seconds usually indicate a hydrophobic condition."

(The average water droplet penetration times from healthy areas is usually less than 3 seconds.)

Golf Course Management, August 1989.

CIRCLE #161



Hydro-Wet RTA is the proven turf wetting agent formulated for application with the Pro-Ap hose-end applicator.

Getting the Drop on Localized Dry Spot.

In mid-summer, golf courses turn into battle grounds as superintendents fight to maintain those lush fairways and greens. The battle heats up even more when you have to deal with increased traffic, changing attitudes toward the use of chemicals and restrictions on water use.

One of the scars of this battle is localized dry spot (LDS). What is most perplexing is that LDS symptoms may occur even after normal irrigation.¹

LDS is most prevalent on greens built mainly of sand and established to bentgrass. It's caused by fungi which leave a non-organic coating on sand particles. Once soil moisture levels begin to decrease, water runs off the turf, leaving the soil dry and powdery. This hydrophobic condition makes rewetting

difficult. If left untreated, LDS can result in turfgrass death.²

Short and long term management practices to minimize the severity of localized dry spots include: syringing, coring and the use of wetting agents.² Wetting agents can reduce LDS by improving the ability of water to bond with these sand and soil particles. They can also increase the wettability of thatch.³ Preventive applications give the best results, but curative applications can also be effective.

¹Karnok, Keith and Tucker, Kevin (University of Georgia), "The Cause And Control Of Localized Dry Spots On Bentgrass Greens," *Golf Course Management*, August 1989.

²Danneberger, Karl, PhD (Ohio State University—Columbus), "Those summertime blues: Localized dry spots," *Grounds Maintenance*, May 1987.

³Carrow, Robert, PhD (University of Georgia), "Understanding Wetting Agents," *Golf Course Management*, June 1989.

CIRCLE #162

Cure Dry Spots.

Call Kalo now at 1-800-255-5196 to find out how you can qualify for a free Pro-Ap* applicator with the purchase of Hydro-Wet RTA.

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